



BEND, OREGON
JANUARY 2022

SHEET INDEX

NUMBER	REV. DATE	CONTENTS
1		TITLE SHEET
2		AIRPORT DATA SHEET
3		AIRPORT LAYOUT PLAN
4		SOUTHWEST TERMINAL AREA PLAN
5		NORTHWEST TERMINAL AREA PLAN
6		SOUTHEAST TERMINAL AREA PLAN
7		NORTHEAST TERMINAL AREA PLAN
8		AIRPORT AIRSPACE PLAN (FAR PART 77)
9		RUNWAY 16 INNER APPROACH SURFACE
10		RUNWAY 34 INNER APPROACH SURFACE
11		RUNWAY 16/34 DEPARTURE SURFACE PLAN AND PROFILE
12		HELICOPTER AIRSPACE PLAN AND PROFILE (PART 77)
13		OFF-AIRPORT LAND USE PLAN
14		ON-AIRPORT LAND USE PLAN
15		EXHIBIT "A" AIRPORT PROPERTY PLAN
16		FAR PART 77 OBSTRUCTION TABLES
17		FAR PART 77 OBSTRUCTION TABLES
18		RUNWAY DEPARTURE SURFACE OBSTRUCTION TABLES

Page 2 of 2

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DATE:
JANUARY 2022

PROJECT NO:
10051.110.01

BEND MUNICIPAL AIRPORT

TITLE SHEET

FIGURE NO.
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SHEET NO.
1 OF 18

AIRPORT DATA TABLE		
DESCRIPTION	EXISTING	FUTURE
FAA IDENTIFIER	BDN	SAME
AIRPORT REFERENCE CODE (ARC)	B-II	SAME
MEAN MAX. DAILY TEMPERATURE	83.7°	SAME
AIRPORT ELEVATION	3459.5'	SAME
ARP COORDINATES	LAT. N 44° 05' 40.42" LONG. W 121° 12' 00.80"	N 44° 05' 35.189" W 121° 12' 00.80"
AIRPORT CRITICAL AIRCRAFT	CESSNA CITATION II/BRAVO	SAME
MAGNETIC DECLINATION	14°29'E (2021 NGDC)	ANNUAL RATE OF CHANGE 0°5'W
AIRPORT ACREAGE	422	532
NPIAS SERVICE LEVEL	REGIONAL GENERAL AVIATION	SAME
STATE ROLE	CAT II - URBAN GA	SAME
HORIZONTAL DATUM	NAD 83	-
VERTICAL DATUM	NAVD 88	-

RUNWAY DATA TABLE					
	RUNWAY 16-34				
	EXISTING		FUTURE		
CLASSIFICATION	LARGER THAN UTILITY		SAME		
RUNWAY DESIGN CODE (RDC)	B/II /5000		SAME		
APPROACH REFERENCE CODE (APRC)	B/II/5000		SAME		
DEPARTURE REFERENCE CODE (DPRC)	B/II		SAME		
RUNWAY LENGTH AND WIDTH	5200' X 75'		6260' X 75'		
RUNWAY PAVEMENT TYPE	ASPHALT		SAME		
RUNWAY PAVEMENT STRENGTH (IN 1000 LBS)	30 SW		SAME		
AIRPORT PAVEMENT STRENGTH (PCN)	N/A		SAME		
RUNWAY PERCENT WIND COVERAGE (10.5KT/13KT)	96.93% / 98.83%		SAME		
RUNWAY PERCENT GRADIENT / MAXIMUM GRADE	1.096%/1.61%		SAME		
CRITICAL AIRCRAFT (ARC)	CESSNA CITATION II/BRAVO		SAME		
WINGSPAN	<79		SAME		
WEIGHT	>12,000 LBS.		SAME		
APPROACH SPEED	<121 KNOTS		SAME		
FAR PART 77 DESIGNATION	LARGER THAN UTILITY - NON PRECISION		SAME		
TERMINAL NAVAIDS	VOR (DSD)/DME; GPS		SAME		
TAXIWAY LIGHTING	REFLECTORS		MITL		
TAXIWAY MARKING	BASIC		SAME		
RUNWAY LIGHTING	MIRL		SAME		
AERONAUTICAL SURVEY REQUIRED	NON-VERTICAL		NON-VERTICAL		
	CONDITION	STANDARD	CONDITION	STANDARD	
RUNWAY SAFETY AREA LENGTH AND WIDTH	5800' X 150'	5800' X 150'	6860' X 150'	6860' X 150'	
LENGTH BEYOND RUNWAY END	300'	300'	300'	300'	
OBJECT FREE AREA LENGTH AND WIDTH	5800' X 500'	5800' X 500'	6860' X 500'	6860' X 500'	
LENGTH BEYOND RUNWAY END	300'	300'	300'	300'	
OBSTACLE FREE ZONE LENGTH AND WIDTH	5600' X 400'	5600' X 400'	6660' X 400'	6660' X 400'	
LENGTH BEYOND RUNWAY END	200'	200'	200'	200'	
OBSTACLE FREE ZONE PENETRATION	NO	NO	NO	NO	
RUNWAY END	16	34	16	34	
RUNWAY PROTECTION ZONE	500' X 700' X 1,000'	500' X 700' X 1,000'	SAME	SAME	
RUNWAY APPROACH CATEGORY	NPI	NPI	SAME	SAME	
RUNWAY APPROACH SLOPE	34:1	34:1	SAME	SAME	
APPROACH VISIBILITY MINIMUMS	≥ 1-MILE	≥ 1-MILE	SAME	SAME	
RUNWAY MARKINGS	NPI	NPI	SAME	SAME	
RUNWAY END COORDINATES	LAT. N 44° 06' 06.09" LONG. W 121° 12' 00.77"	N 44° 05' 14.75" W 121° 12' 00.82"	N 44° 06' 06.09" W 121° 12' 00.77"	N 44° 05' 04.28" W 121° 12' 00.83"	
RUNWAY END ELEVATION	3403.04'	3459.45'	SAME	SAME	
DISPLACED THRESHOLD ELEVATION	N/A	N/A	N/A	N/A	
TOUCHDOWN ZONE ELEVATION	3431.43'	3459.44'	SAME	SAME	
INSTRUMENTATION AND APPROACH AIDS	GPS	GPS	SAME	SAME	
VISUAL AIDS	REILS, PAPI-4	REILS, PAPI-4	SAME	SAME	
DEPARTURE SURFACE	YES	YES	SAME	SAME	
THRESHOLD SITING SURFACE	NO PENETRATIONS	NO PENETRATIONS	SAME	SAME	

DECLARED DISTANCES

EXISTING/FUTURE 16-34

Diagram illustrating the Declared Distances for the runway, showing existing and future configurations. The distances are defined as follows:

- TORA 5200'(E)/6260'(U)
- TODA 5200'(E)/6260'(U)
- ASDA 5200'(E)/6260'(U)
- LDA 5200'(E)/6260'(U)

APRON DIMENSIONS	
	SQUARE FOOTAGE APPROX.
APRON EXISTING	1,337,759
APRON FUTURE	2,228,464

BUILDING/FACILITY KEY			
	DESCRIPTION	ADDRESS	OWNER
1	HANGAR	63400	PALADIN DATA
2	HANGAR	63380	CURRY INV.
3	HANGAR	63360	BRONSON (SNOWLINE)
4	HANGAR	63354	BRONSON (PRECISE FLIGHT)
5	HANGAR	63348	DKS HOLDINGS (PRO. AIR SERVICES)
6	HANGAR	63342	WETTER (LEADING EDGE AVIATION)
7	HANGAR	63336	HENSLEY
8	HANGAR	63334	JUNIPER INVESTMENTS (KEN SMITH)
9	HANGAR	63330	CITY HANGAR (A-B)
10	HANGAR	63316	CITY HANGAR - J (A-L)
11	HANGAR	63326	#1: DIESTEL, #2: SHAKER, #3: NOVOTEL
12	HANGAR	63296	ELECTRONICS INTERNATIONAL
13	HANGAR	63290	CITY HANGAR - I (1-10)
14	HANGAR	63286	MAVERICK AIR / BANEY
15	HANGAR	63240	HARTLEY
16	HANGAR	63250	BENNETT
17	HANGAR	63260	LEE, G.
18	HANGAR	63230	VOLO
19	HANGAR	63220	GUINN
20	HANGAR	63210	DEGRYSE
21	HANGAR	63170	CITY HANGAR - B (1-10)
22	HANGAR	63160	CITY HANGAR - A (1-10)
23	FUEL STORAGE	-	PRIVATE
24	HANGAR	63144	JUNIPER (AIRLIFE)
25	HANGAR	63140	JUNIPER (PRO AIR)
26	WATER SYSTEM FCLT.	-	CITY
27	HANGAR	63138	STEWART (PRO AIR) (COCC)
28	FBO / GA TERMINAL	63136	CITY
29	VEHICLE PARKING	-	CITY
30	HANGAR	63132	PRO AIR (FBO HANGAR / PRO SHOP)
31	HANGAR	63120	STEVE GIBSON
32	HANGAR	63110	BEND MUNI. CONDO HANGARS - MS (1-7)
33	HANGAR	63102	AVIATION PROPERTIES
34	HANGAR	63100	RANGER CORP.
35	HANGAR	63048	60 AVIATION, LLC
36	HANGAR	63044	PANDIAN
37	HANGAR	63038	BELL SPENCER
38	HANGAR	63032	HOGUE / STORCH
39	HANGAR	63026	ALLEN
40	HANGAR	63020	HOLT
41	HANGAR	63010	METCALFE
42	HANGAR (3-BAY)	63008	WINDWARD PERFORMANCE
42		63006	ADVANCE AVIATION
42		63004	ADVANCE AVIATION
43	HANGAR	63000	PEVERIERI
44	HANGAR	63002	PEVERIERI (GRIFFIN INTERNATIONAL)
45	HANGAR	63054	CITY HANGAR - H (1-4)
46	HANGAR	63058	CITY HANGAR - G (1-6)
47	HANGAR	63062	CITY HANGAR - F (1-5)
48	HANGAR	63066	CITY HANGAR - E (1-3)
49	HANGAR	63070	CITY HANGAR - D (1-6)
50	HANGAR	63098	TA1: JACQUES (EASTSIDE)
50		63088	TB1: MUNCH / CITY STORAGE (WESTSIDE)
50		63096	TA2: JACQUES (EASTSIDE)
50		63086	TB2: BRONSON (WESTSIDE)
50		63094	TA3: HOLLERN / A & PR (EASTSIDE)
50		63084	TB3: FOSTER (WESTSIDE)
51	HANGAR	-	PRIVATE
52	HANGAR	-	PRIVATE
53	GROUND LEASE	-	AERO FACILITIES
54	GROUND LEASE	-	EPIC
55	GROUND LEASE	-	CESSNA
56	FBO (FUTURE)	-	PRIVATE
57	COMMERCIAL HANGARS (FUTURE)	-	PRIVATE
58	FUEL STORAGE / DISPENSING (FUTURE)	-	AIRPORT / PRIVATE
59	FUEL STORAGE (FUTURE)	-	PRIVATE
60	AIRCRAFT PARKING APRON (FUTURE)	-	AIRPORT
61	COMMERCIAL HANGAR (FUTURE)	-	PRIVATE
62	T-HANGARS	-	AIRPORT / PRIVATE
63	SMALL / MEDIUM CONVENTIONAL HANGARS (FUTURE)	-	PRIVATE
64	FBO / COMMERCIAL HANGARS (FUTURE)	-	PRIVATE
65	PUBLIC USE HELICOPTER PARKING APRON	-	AIRPORT
66	HELICOPTER LANDING PADS	-	AIRPORT
67	SMALL / MEDIUM CONVENTIONAL HANGARS (FUTURE)	-	PRIVATE
68	AIRCRAFT PARKING APRON (RECONFIGURED - FUTURE)	-	AIRPORT
69	AIRCRAFT TIEDOWN APRON (FUTURE)	-	AIRPORT
70	FUEL STORAGE / DISPENSING (FUTURE)	-	AIRPORT / PRIVATE
71	AVIATION IND/COMM DEVELOPMENT RESERVE	-	PRIVATE
72	AIRCRAFT PARKING APRON (RECONFIGURED - FUTURE)	-	AIRPORT
73	AVIATION RELATED DEVELOPMENT RESERVE	-	PRIVATE
74	GLIDER STAGING AREA (EXISTING)	-	AIRPORT
75	AIRCRAFT WASH PAD (FUTURE)	-	AIRPORT
76	VEHICLE PARKING (FUTURE)	-	AIRPORT

LEGEND		
	EXISTING	FUTURE
BUILDINGS		
RUNWAY PAVEMENT		
OTHER AIRFIELD PAVEMENT		
DEVELOPMENT RESERVE		FUTURE ULTIMATE
BUILDING RESTRICTION LINE (BRL)	===== BRL (E) =====	===== BRL (F) =====
AIRPORT PROPERTY LINE	=====	=====
RUNWAY SAFETY AREA (RSA)	=====	=====
OBJECT FREE AREA (OFA)	=====	=====
OBSTACLE FREE ZONE (OFZ)	=====	=====
TAXIWAY OBJECT FREE AREA (TOFA)	=====	=====
RUNWAY PROTECTION ZONE (RPZ)	=====	=====
GROUND CONTOURS		
AIRPORT REFERENCE POINT (ARP)		
REIL		
VISUAL GUIDANCE INDICATORS (PAPI)		
WIND INDICATOR		
SEGMENTED CIRCLE WIND INDICATOR		
FENCE		
BEACON		
THRESHOLD LIGHTS		
POTENTIAL ATCT SITE		
AVIATION DEVELOPMENT AREA		
ACCESS ROAD/VEHICLE PARKING DEVELOPMENT		
TO BE REMOVED		

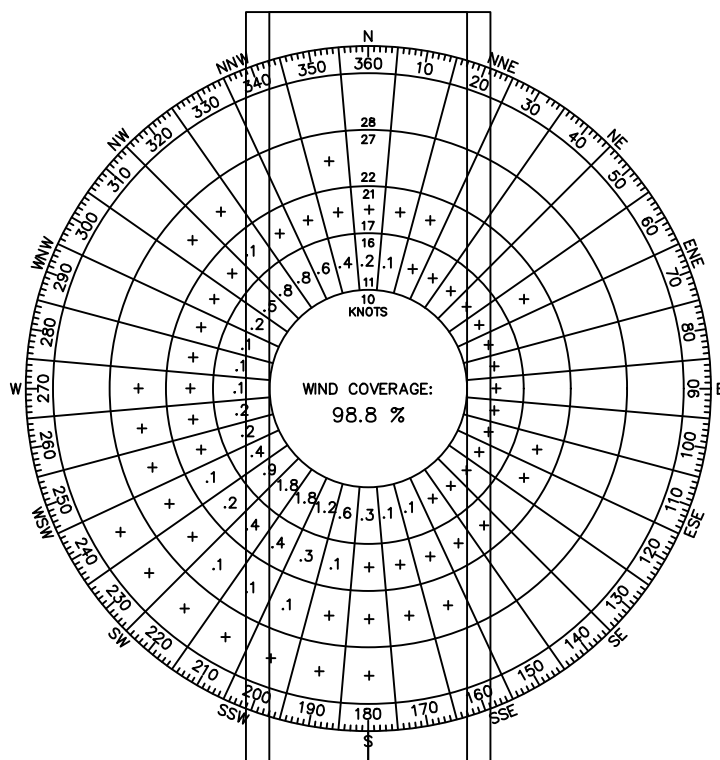
AIRPORT FACILITIES			
FACILITY	TYPE / MODEL	CRITICAL AREA	OWNERSHIP
AWOS-3	-	500' CLEAR AREA	CITY OF BEND
WIND CONE/SEG CIR	-	NONE	CITY OF BEND
BEACON	-	50' CLEAR AREA MIN.	CITY OF BEND
FUEL	-	NONE	CITY OF BEND
REIL	-	NONE	CITY OF BEND
PAPI-4	-	NONE	CITY OF BEND

FUTURE MODIFICATION TO STANDARDS			
NO.	ITEM	DESCRIPTION	DISPOSITION
	TAXILANE OFA	LESS THAN ADG I STANDARD BETWEEN HANGARS	MODIFIED FAA TAXILANE CLEARING FORMULA. RECONFIGURE HANGAR AREA AT END OF USEFUL LIFE

TAXIWAY / TAXILANE DATA				
	EXISTING CONDITIONS	EXISTING STANDARDS	FUTURE CONDITIONS	FUTURE STANDARDS
TAXIWAY WIDTHS (TDG I/II)	25' & 35'	35'	35'	35'
TAXILANE WIDTHS (TDG I/II)	25' & 35'	25' & 35'	25' & 35'	25' & 35'
TAXIWAY SAFETY AREA (ADG II)	79'	79'	79'	79'
TAXIWAY OBJECT FREE AREA (ADG II)	131'	131'	131'	131'
TAXILANE OBJECT FREE AREA (ADG I)	LESS THAN 79'	79' & 115'	79' & 115'	79' & 115'

PERIMETER FENCE/GATES DATA		
	EXISTING	FUTURE
FENCE	3', 3-STRAND BARBED WIRE (16,661 LF)	6' CHAIN-LINK W/ BARBED WIRE TOPPER (16,571 LF)
ACCESS GATES	NONE	20 (PEDESTRIAN) 5 (MANUAL VEH) 5 (AUTO VEH)

RUNWAY 16-34 WIND COVERAGE			
	10.5 KNOTS	13 KNOTS	16 KNOTS
IFR	99.30%	99.65%	99.86%
VFR	96.77%	98.77%	99.73%
ALL WEATHER	96.87%	98.80%	99.73%



ALL WEATHER WIND ROSE

SOURCE: BDN AWOS
NCDC DATA ACCESSED VIA ADIP
247,393 OBSERVATIONS
(2011-2020)

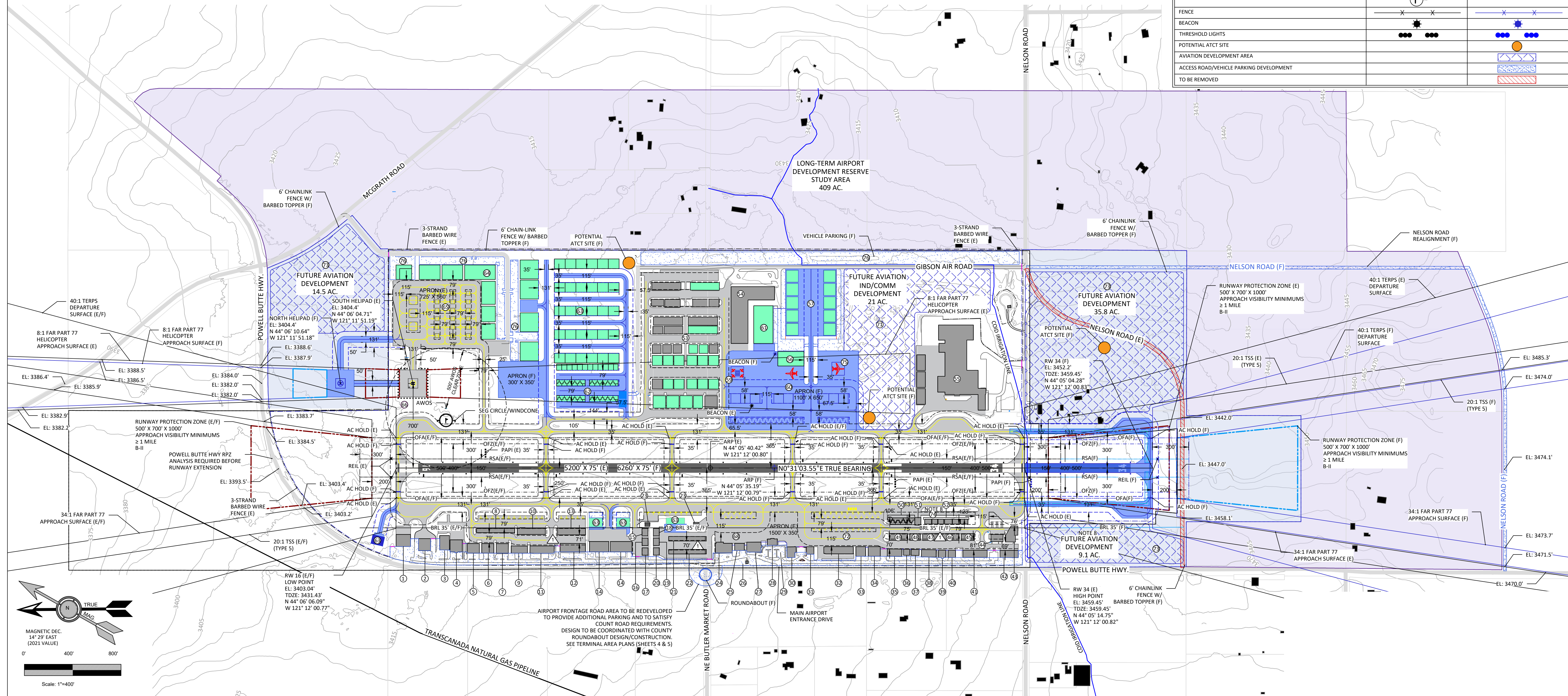
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								-	
						DESIGNED BY:	DRAWN BY:	CHECKED BY:	SCALE:
						MD	MS	WMR	AS SHOWN
					DATE:	JANUARY 2022		PROJECT NO:	10051.110.01

6. EXISTING 3-STRAND BARBED WIRE PERIMETER FENCING TO BE UPGRADED TO 6' CHAINLINK WITH BARBED WIRE TOPPER AND ACCESS GATES. SEE PERIMETER FENCE AND GATE DATA TABLE ON SHEET 2.

9. POTENTIAL TTF ACCESS REQUESTS WILL REQUIRE FURTHER FAA COORDINATION.

NO.	ITEM	DESCRIPTION	DISPOSITION
1	TAXILANE OFA (FUTURE)	LESS THAN ADG I STANDARD BETWEEN HANGARS	MODIFIED FAA TAXILANE CLEARING FORMULA. RECONFIGURE HANGAR AREA AT END OF USEFUL LIFE

	EXISTING	FUTURE
BUILDINGS		
RUNWAY PAVEMENT		
OTHER AIRFIELD PAVEMENT		
DEVELOPMENT RESERVE		
BUILDING RESTRICTION LINE (BRL)		
AIRPORT PROPERTY LINE		
RUNWAY SAFETY AREA (RSA)		
OBJECT FREE AREA (OFA)		
OBSTACLE FREE ZONE (OFZ)		
TAXIWAY OBJECT FREE AREA (TOFA)		
RUNWAY PROTECTION ZONE (RPZ)		
GROUND CONTOURS		
AIRPORT REFERENCE POINT (ARP)		
REIL		
VISUAL GUIDANCE INDICATORS (PAPI)		
WIND INDICATOR		
SEGMENTED CIRCLE WIND INDICATOR		
FENCE		
BEACON		
THRESHOLD LIGHTS		
POTENTIAL ATCT SITE		
AVIATION DEVELOPMENT AREA		
ACCESS ROAD/VEHICLE PARKING DEVELOPMENT		
TO BE REMOVED		



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BEND, OR 97702
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541.382.2423 FAX

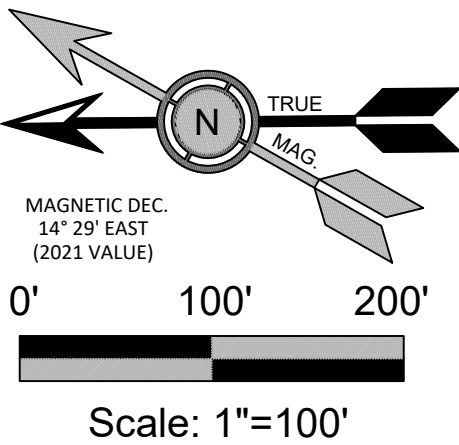
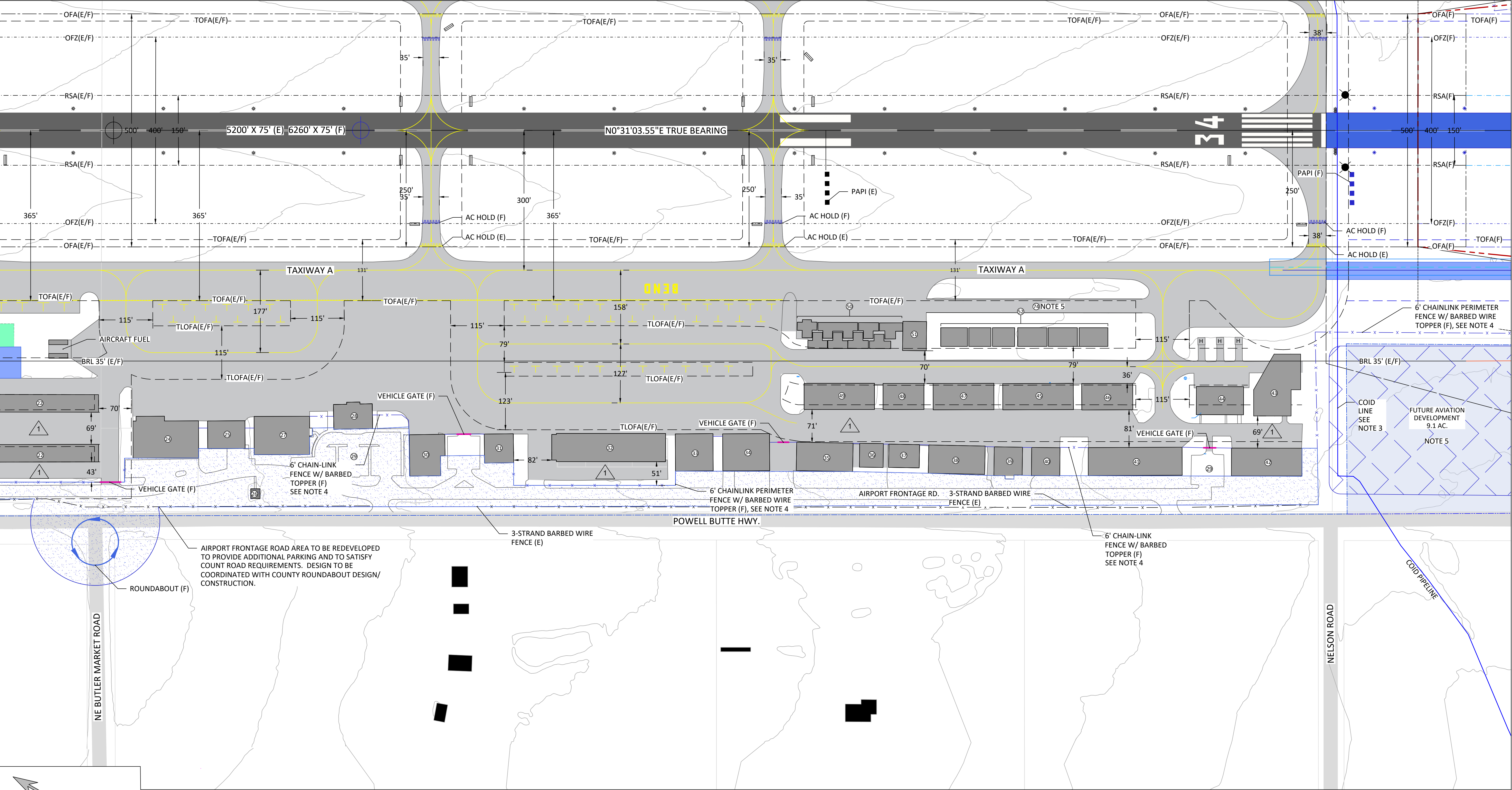
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BEND MUNICIPAL AIRPORT

AIRPORT LAYOUT PLAN

FIGURE NO
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SHEET NO.
3 OF 18



NOTE:

1. SEE DATA SHEET (SHEET 2) FOR FACILITY / BUILDING KEY

2. SEE DATA SHEET FOR FULL LEGEND

3. NO DEVELOPMENT POSSIBLE UNTIL COID DIG PROJECT IS COMPLETE - ANTICIPATED TO BE COMPLETED IN COORDINATION WITH THE RUNWAY EXTENSION PROJECT.
4. AIRPORT PERIMETER TO BE FENCED WITH 6' CHAINLINK WITH BARBED WIRE TOPPER. FENCE WILL BE ROUTED BETWEEN BUILDINGS WHERE POSSIBLE.

5. GLIDER OPERATIONS AREA TO BE RELOCATED TO THE SW FUTURE AVIATION DEVELOPMENT AREA AT THE TIME OF RUNWAY EXTENSION.

MODIFICATION TO STANDARDS			
NO.	ITEM	DESCRIPTION	DISPOSITION
1	TAXILANE OFA (FUTURE)	LESS THAN ADG I STANDARD BETWEEN HANGARS	MODIFIED FAA TAXILANE CLEARING FORMULA. RECONFIGURE HANGAR AREA AT END OF USEFUL LIFE

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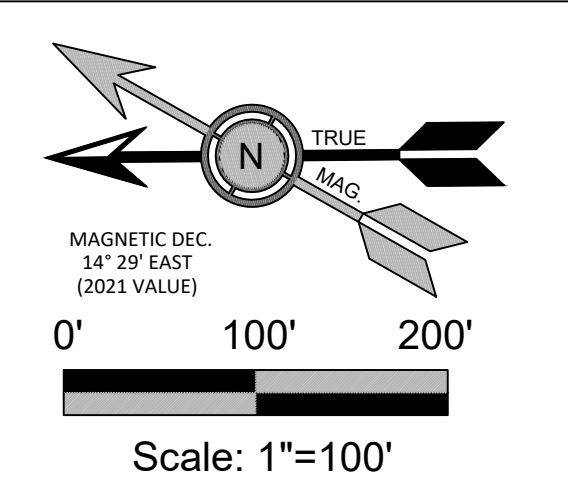
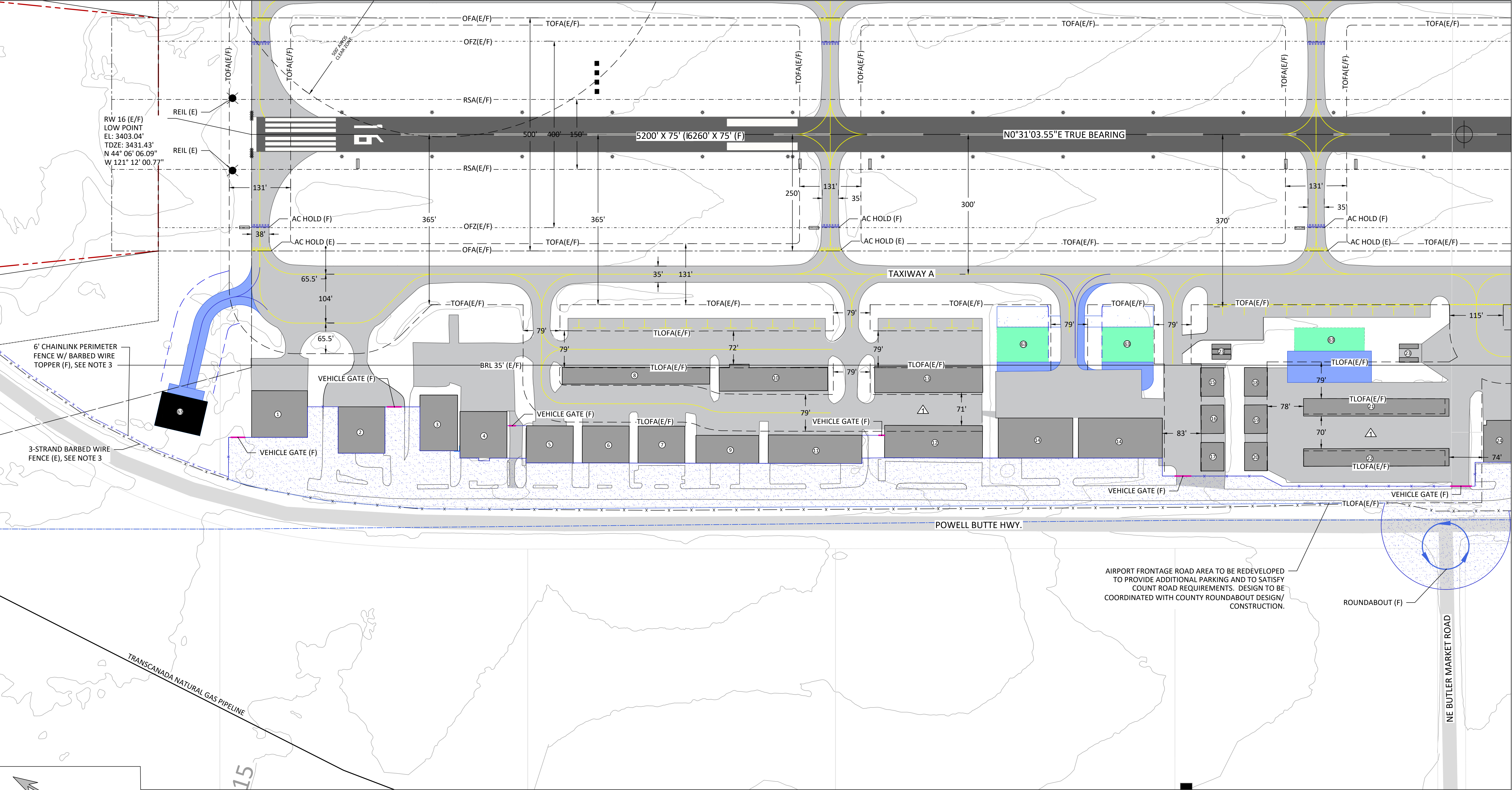
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DATE: JANUARY 2022		PROJECT NO: 10051.110.01	

BEND MUNICIPAL AIRPORT

SOUTHWEST TERMINAL AREA PLAN

FIGURE NO.
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SHEET NO.
4 OF 18



NOTE:

- 1. SEE DATA SHEET (SHEET 2) FOR FACILITY / BUILDING KEY
- 2. SEE DATA SHEET (SHEET 2) FOR LEGEND
- 3. AIRPORT PERIMETER TO BE FENCED WITH 6' CHAINLINK WITH BARBED WIRE TOPPER. FENCE TO BE ROUTED BETWEEN BUILDINGS WHERE POSSIBLE.

MODIFICATION TO STANDARDS			
NO.	ITEM	DESCRIPTION	DISPOSITION
1	TAXILANE OFA (FUTURE)	LESS THAN ADG I STANDARD BETWEEN HANGARS	MODIFIED FAA TAXILANE CLEARING FORMULA. RECONFIGURE HANGAR AREA AT END OF USEFUL LIFE

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DATE: JANUARY 2022	PROJECT NO: 10051.110.01		

BEND MUNICIPAL AIRPORT

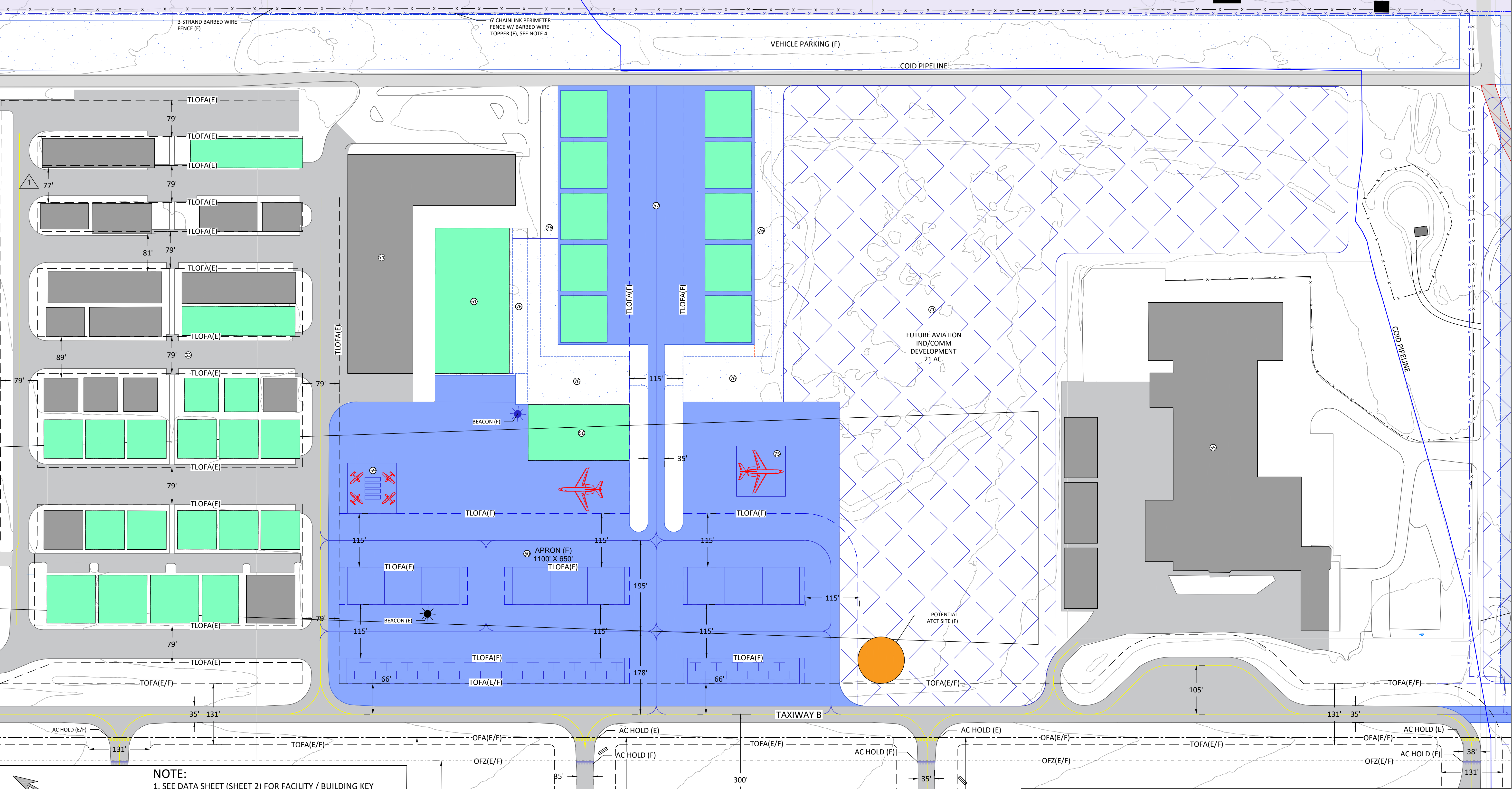
NORTHWEST TERMINAL AREA PLAN

FIGURE NO.

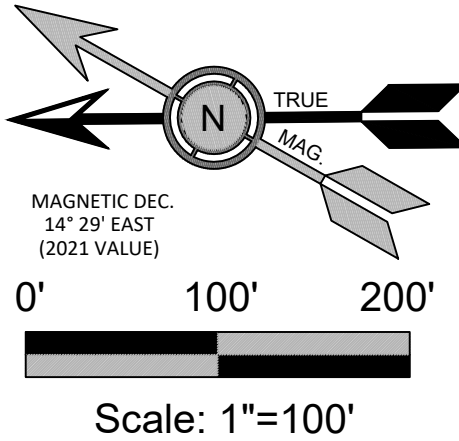
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SHEET NO.

5 OF 18



- NOTE:**
1. SEE DATA SHEET (SHEET 2) FOR FACILITY / BUILDING KEY
 2. SEE DATA SHEET FOR FULL LEGEND
 3. NO DEVELOPMENT POSSIBLE UNTIL COID DIG PROJECT IS COMPLETE - ANTICIPATED TO BE COMPLETED IN COORDINATION WITH THE RUNWAY EXTENSION PROJECT.
 4. AIRPORT PERIMETER TO BE FENCED WITH 6' CHAINLINK WITH BARBED WIRE TOPPER. FENCE TO BE ROUTED BETWEEN BUILDINGS WHERE POSSIBLE.



MODIFICATION TO STANDARDS			
NO.	ITEM	DESCRIPTION	DISPOSITION
1	TAXILANE OFA (FUTURE)	LESS THAN ADG I STANDARD BETWEEN HANGARS	MODIFIED FAA TAXILANE CLEARING FORMULA. RECONFIGURE HANGAR AREA AT END OF USEFUL LIFE

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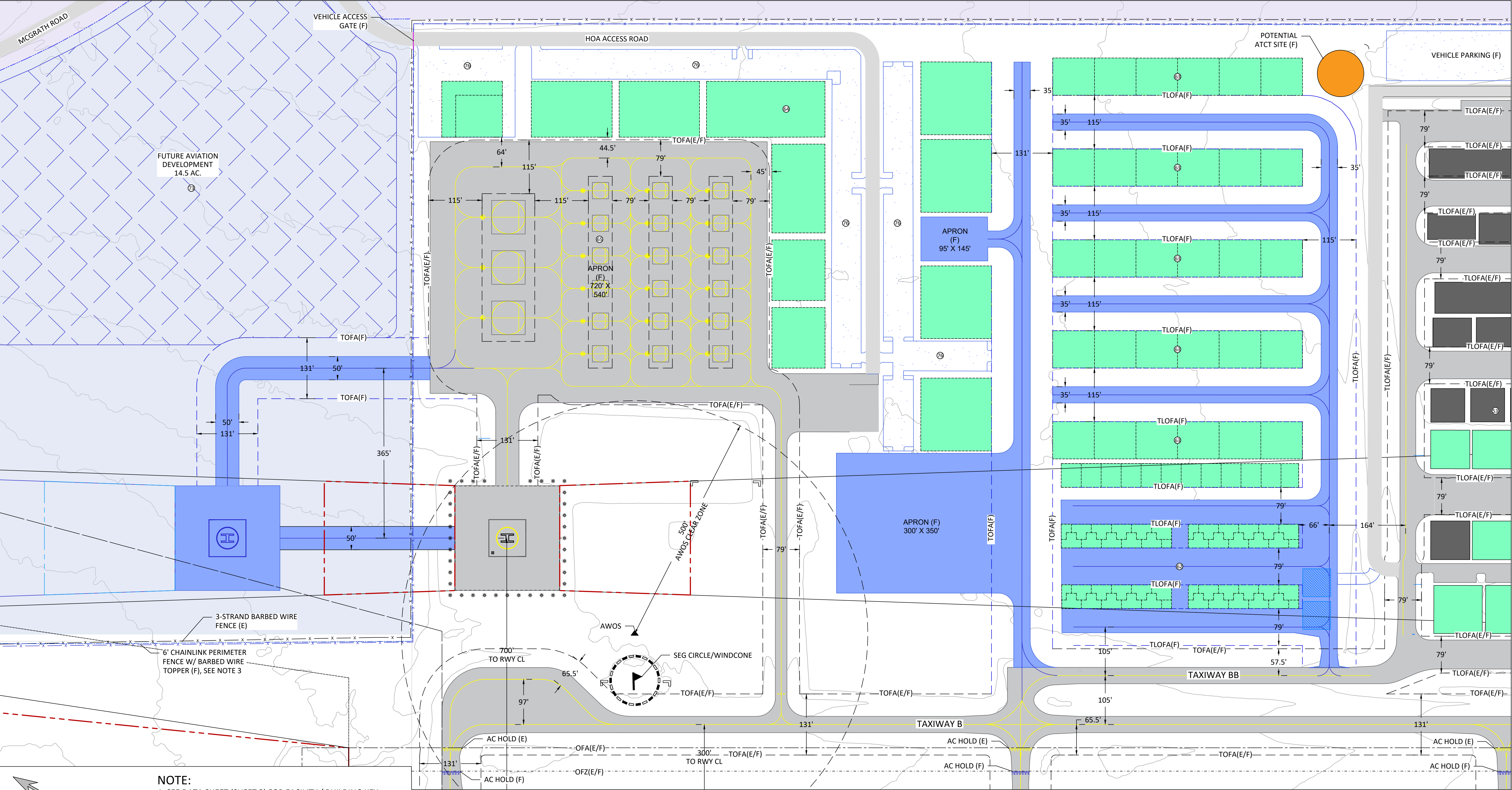
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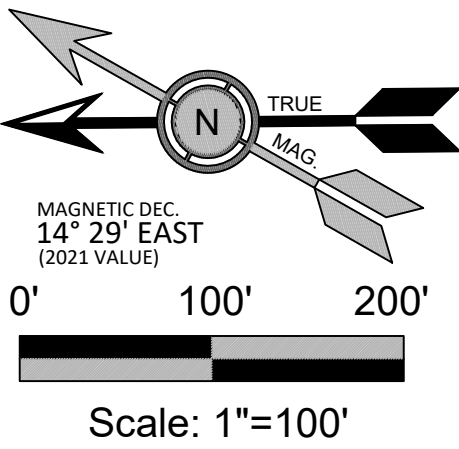
BEND MUNICIPAL AIRPORT

SOUTHEAST TERMINAL AREA PLAN

FIGURE NO.
-
SHEET NO.
6 OF 18



- NOTE:**
1. SEE DATA SHEET (SHEET 2) FOR FACILITY / BUILDING KEY
 2. SEE DATA SHEET (SHEET 2) FOR LEGEND
 3. AIRPORT PERIMETER TO BE FENCED WITH 6' CHAINLINK WITH BARBED WIRE TOPPER. FENCE TO BE ROUTED BETWEEN BUILDINGS WHERE POSSIBLE.

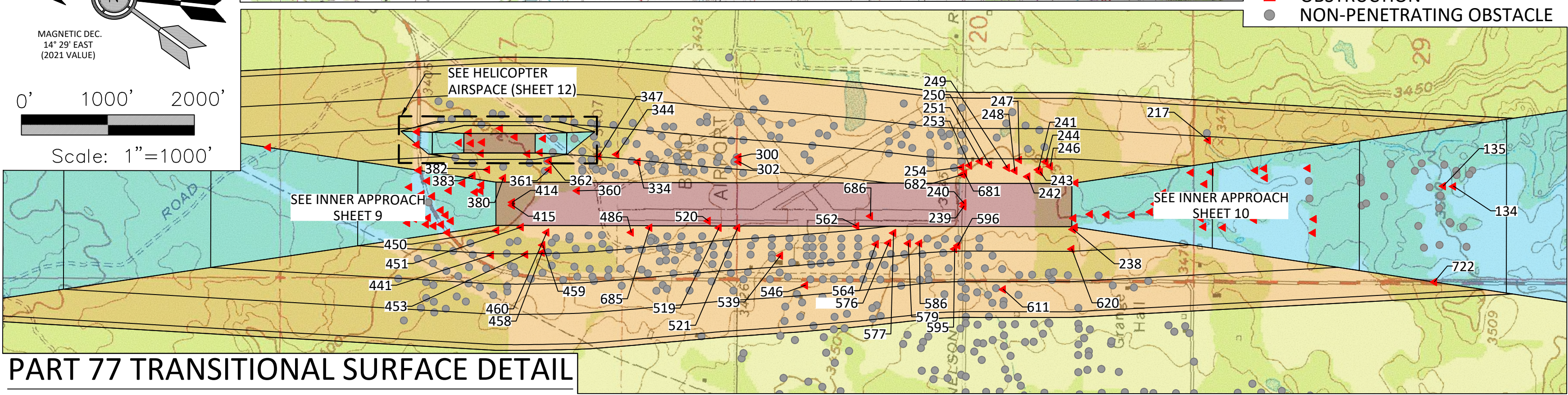


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																																												NORTHEAST TERMINAL AREA PLAN										SHEET NO. 7 OF 15									

PART 77 PLAN VIEW

This technical drawing illustrates the horizontal layout of an airport, showing runways, taxiways, and surrounding terrain. Key features include:

- Runways:** RWY 16 (Elev: 3459.45' (E)), RWY 34 (F) (Elev: 3459.45'), and RWY 34 (E) (Elev: 3459.45').
- Surfaces:** 20:1 CONICAL SURFACE, 34:1 APPROACH SURFACE, 7:1 TRANSITIONAL SURFACE, 8:1 APPROACH SURFACE, and HORIZONTAL SURFACE.
- Other Features:** HELICOPTER LANDING AREA, MAYFIELD POND, HATFIELD PONDS, THE ACADEMY AT SISTERS, NEW LEAF ACADEMY, and TOWER.
- Obstructions:** Various obstructions are marked with red triangles and labeled with numbers (e.g., 61, 62, 125, 128, 89, 102, 111, 113, 112, 75, 74, 76, 77, 85, 82, 78, 119, 105, 72, 70, 69, 14, 9).
- Scale:** 0' to 4000' (Scale: 1"=2000').
- North Arrow:** Indicated by a compass rose.



O.	DATE	BY	APPR	REVISIONS	<u>VERIFY SCALES</u> BAR IS ONE INCH ON ORIGINAL DRAWING. 0" XXXXXXXXXX 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.				DESIGNED BY:	D
				MD						
				DATE:						
				JANUARY						

Profile view showing the proposed 20:1 threshold siting surface and 34:1 far part approach surface. The profile includes the existing terrain (grey line), the proposed composite surface (black line), and the 20:1 threshold siting surface (red line). The 34:1 far part approach surface is also shown as a red line. The profile includes a local road (719) and a composite surface. The elevation ranges from 3300' to 3700' feet. The horizontal distance ranges from 10000' to 0'.

The profile view shows the elevation of Runway 16 (E) and Runway 34 (E). The vertical axis represents ELEVATION (FEET) from 3350' to 3550'. The horizontal axis represents stationing from 0' to 1500'. The profile shows a relatively flat section for Runway 16 (E) followed by a slight rise for Runway 34 (E). Key points include:

- Runway 16 (E) EL: 3403.04'
- Runway 34 (E) EL: 3459.45'
- Runway 34 (F) EL: 3459.45'

OBSTACLE > 10' BELOW SURFACE AND HIGHER, OR TRAVERSESEWAY

PROFILE VIEW SCALES:
Horizontal: 1"=1000'
Vertical: 1"=100'

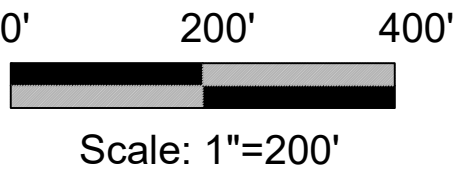
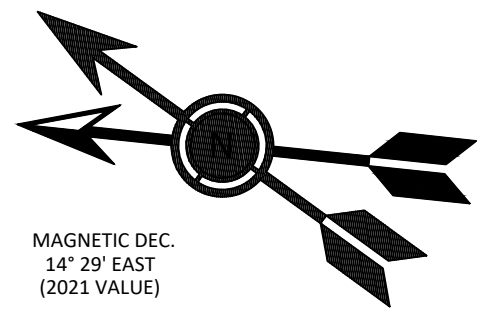
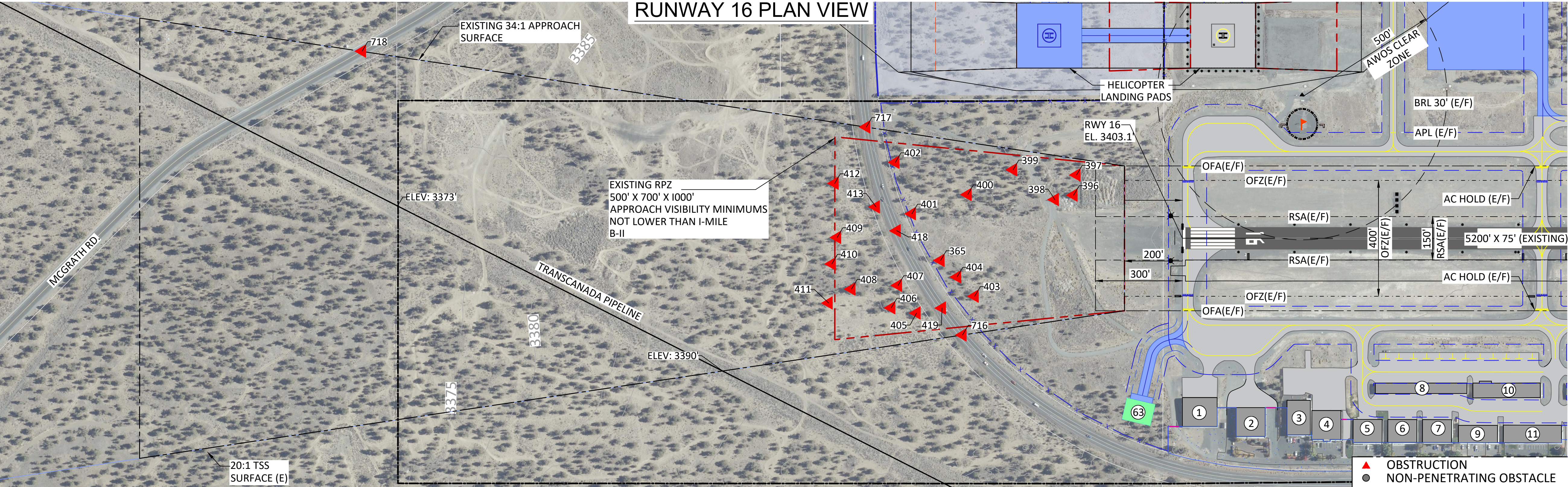
1. DETAILED DATA ARE PROVIDED FOR OBSTACLES IDENTIFIED BY RED TRIANGLES THAT ARE LESS THAN 10' BELOW THE CONTROLLING SURFACE. THE LOCATIONS OF OTHER OBSTACLES ARE DEPICTED BY GRAY DOTS FOR REFERENCE. CONSULT ADIP FOR DETAILED INFO ON THESE FEATURES.
2. SEE SHEETS 16 & 17 FOR OBSTACLE TABLES.
3. SEE SHEET 9 & 10 FOR INNER APPROACH SURFACE DETAILS
4. SEE SHEET 12 FOR HELICOPTER AIRSPACE DETAILS
5. DESCHUTES COUNTY CODE (18.90), AS OVERLAY ZONE, CODIFIES LAND USE PROTECTIONS UNDER THE PART 77 SURFACES

PROFILE VIEW SCALES:
Horizontal: 1"=1000'
Vertical: 1"=100'

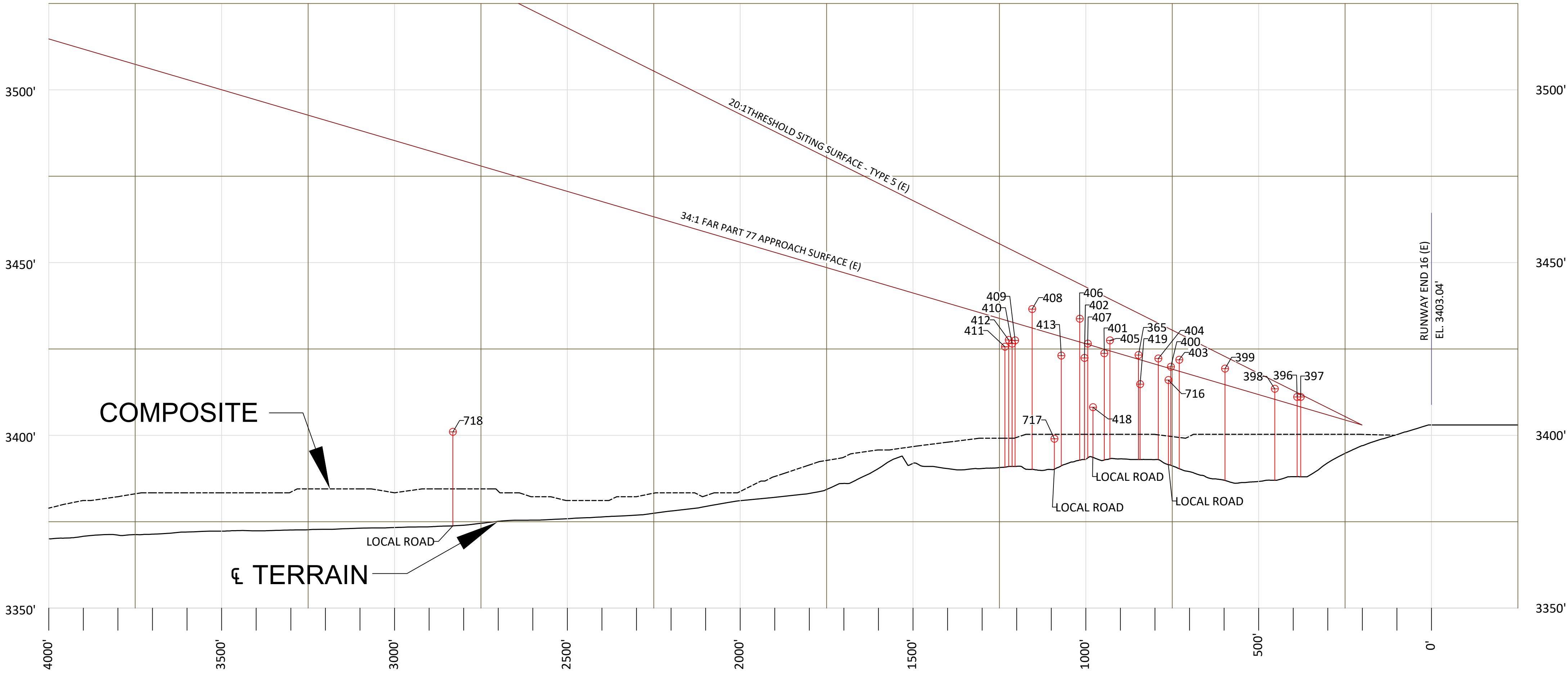
BEND OFFICE
1020 SW EMKAY DRIVE., #100
BEND, OR 97702
541.322.8962 OFFICE
541.382.2423 FAX

AIRPORT AIRSPACE PLAN (FAR PART 77)

SHEET NO.
8 OF 18



RUNWAY 16 PROFILE VIEW

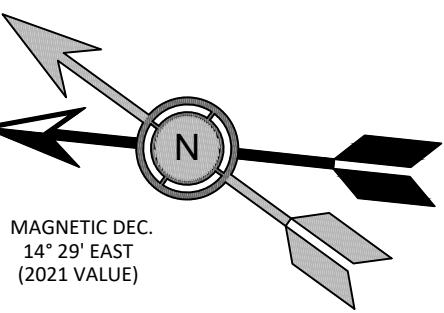
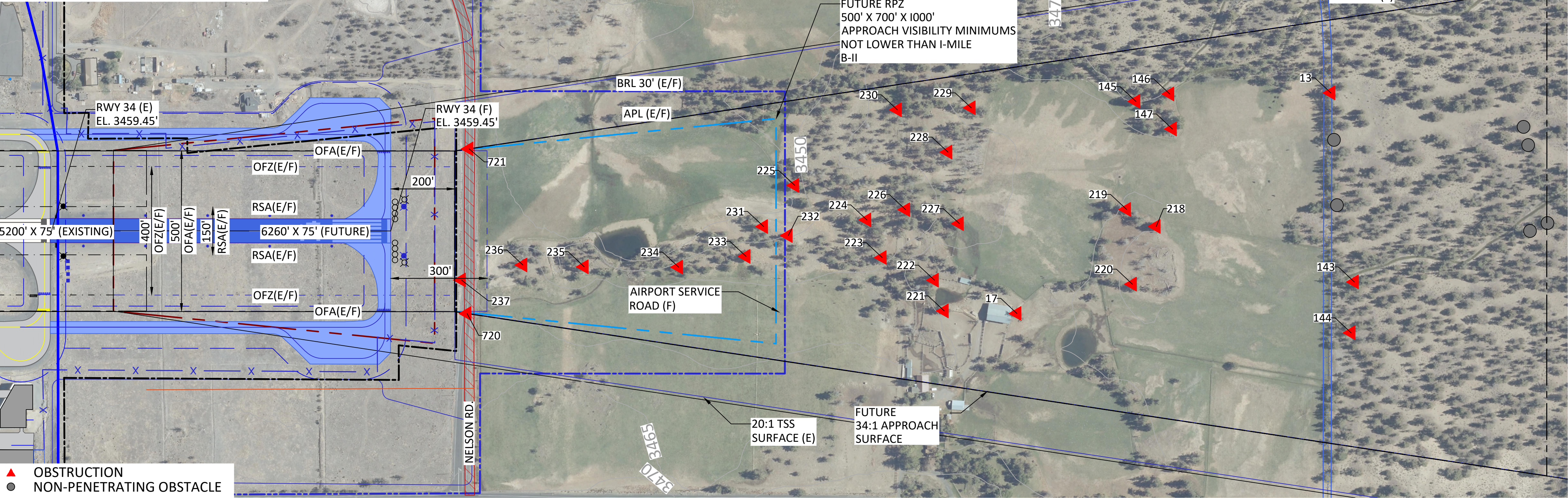


- NOTES:**
1. DETAILED DATA ARE PROVIDED FOR OBSTACLES IDENTIFIED BY RED TRIANGLES THAT ARE LESS THAN 10' BELOW THE CONTROLLING SURFACE OR ARE IDENTIFIED AS TRAVERSEWAYS. THE LOCATIONS OF OTHER OBSTACLES ARE DEPICTED BY GRAY DOTS FOR REFERENCE. CONSULT ADIP FOR DETAILED INFO ON THESE FEATURES.
 2. SEE SHEETS 16 & 17 FOR OBSTACLE TABLES.
 3. SEE SHEET 8 FOR OUTER APPROACH SURFACE DETAILS
 4. SEE SHEET 3 FOR FULL LEGEND AND FACILITY/BUILDING KEY.

- OBSTACLE > 10' BELOW SURFACE
- OBSTACLE < 10' BELOW SURFACE AND HIGHER, OR TRAVERSEWAY

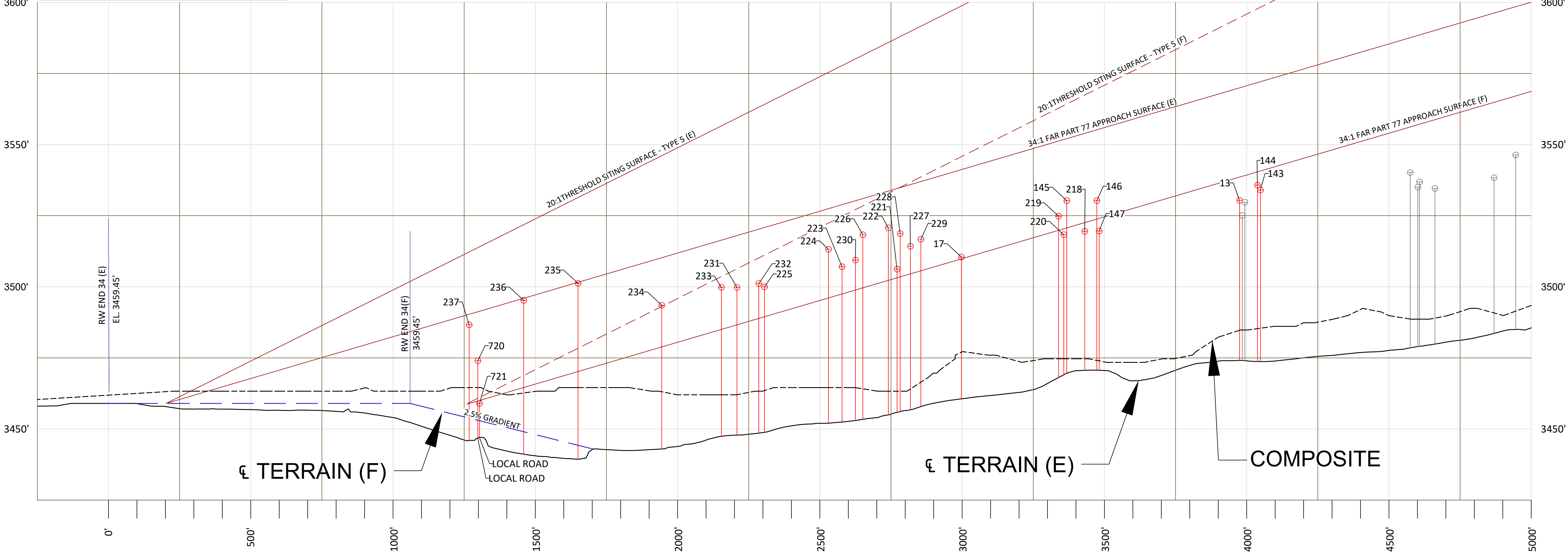
NO.	DATE	BY	APPR	REVISIONS		VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING. 0" 1" 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	CENTURY WEST ENGINEERING BEND OFFICE 1020 SW EMKAY DRIVE., #100 BEND, OR 97702 541.322.8962 OFFICE 541.382.2423 FAX				BEND MUNICIPAL AIRPORT		FIGURE NO.
										-			
DESIGNED BY: MD				DRAWN BY: MS		CHECKED BY: WMR		SCALE: AS SHOWN		RUNWAY 16 INNER APPROACH SURFACE		SHEET NO.	
DATE: JANUARY 2022						PROJECT NO: 10051.110.01						9 OF 18	

RUNWAY 34 PLAN VIEW



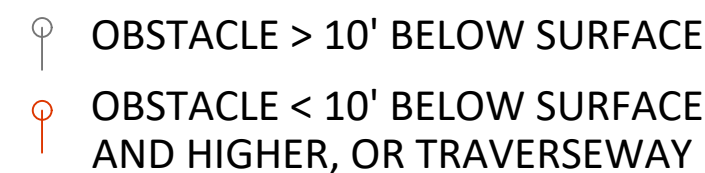
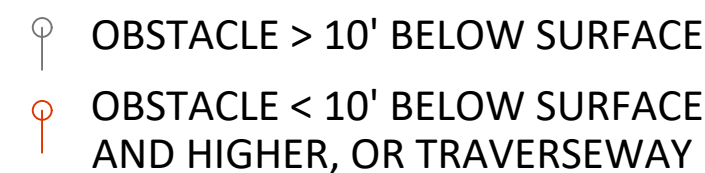
- NOTES:
1. DETAILED DATA ARE PROVIDED FOR OBSTACLES IDENTIFIED BY RED TRIANGLES THAT ARE LESS THAN 10' BELOW THE CONTROLLING SURFACE OR ARE IDENTIFIED AS TRAVERSEWAYS. THE LOCATIONS OF OTHER OBSTACLES ARE DEPICTED BY GRAY DOTS FOR REFERENCE. CONSULT ADIP FOR DETAILED INFO ON THESE FEATURES.
 2. SEE SHEET 16 & 17 FOR OBSTACLE TABLES.
 3. SEE SHEET 8 FOR OUTER APPROACH SURFACE DETAILS
 4. SEE SHEET 3 FOR FULL LEGEND AND FACILITY/BUILDING KEY.

RUNWAY 34 PROFILE VIEW



- OBSTACLE > 10' BELOW SURFACE
OBSTACLE < 10' BELOW SURFACE AND HIGHER, OR TRAVERSEWAY

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					BAR IS ONE INCH ON ORIGINAL DRAWING. 0" 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.				DESIGNED BY: MD DRAWN BY: MS CHECKED BY: WMR SCALE: AS SHOWN				RUNWAY 34 INNER APPROACH SURFACE				-
									DATE: JANUARY 2022 PROJECT NO: 10051.110.01								SHEET NO. 10 OF 18

[illegible]

4. SEE SHEET 3 FOR FULL LEGEND AND FACILITY/BUILDING KEY.

NO.	DATE	BY	APPR	REVISIONS

VERIFY SCALES

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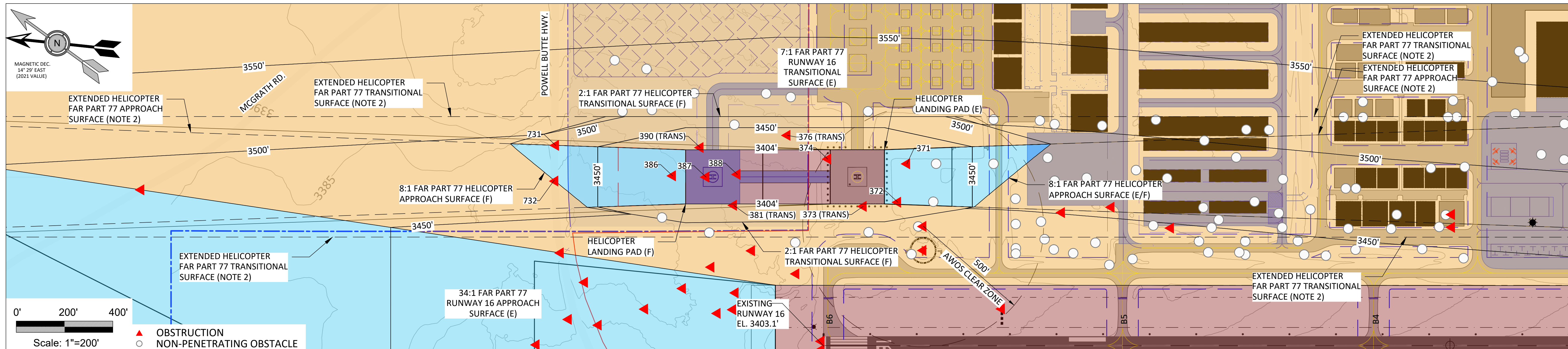
DESIGNED BY: MD	DRAWN BY: MS	CHECKED BY: WMR	SCALE: AS SHOWN
DATE: JANUARY 2022		PROJECT NO: 10051.110.01	

BEND MUNICIPAL AIRPORT

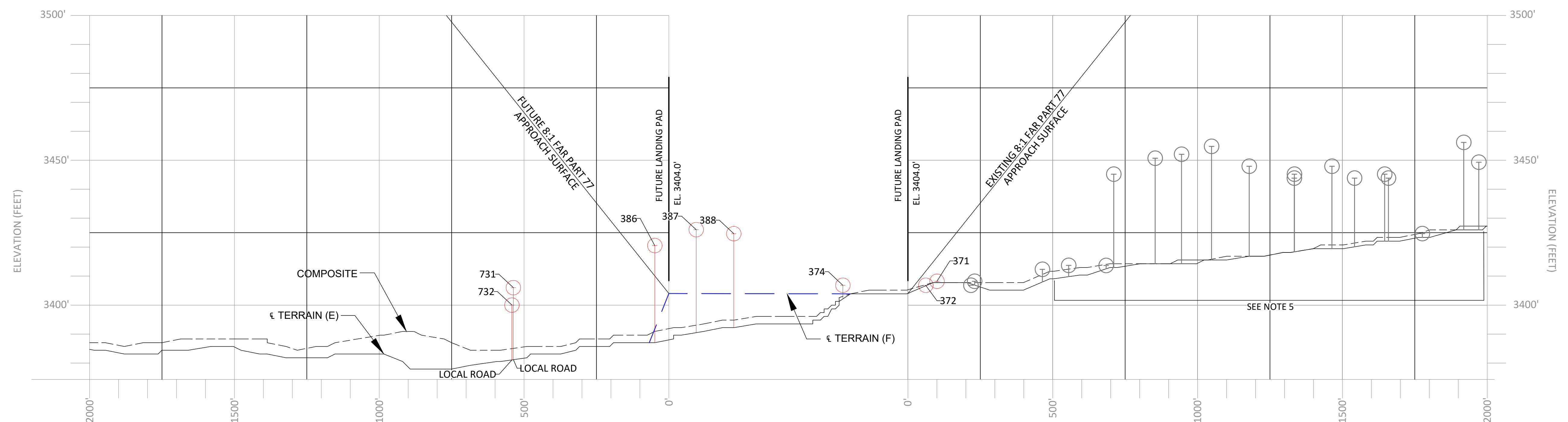
RUNWAY 16-34 DEPARTURE SURFACE PLAN AND PROFILE

FIGURE NO.
-

SHEET NO.
11 OF 18

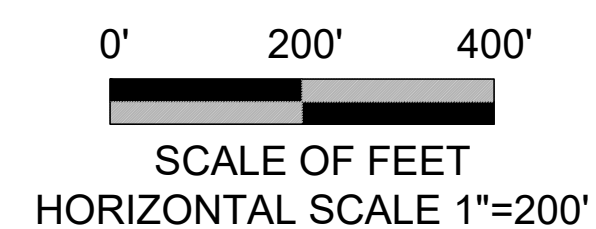


HELICOPTER LANDING AREA PLAN VIEW



NOTES:

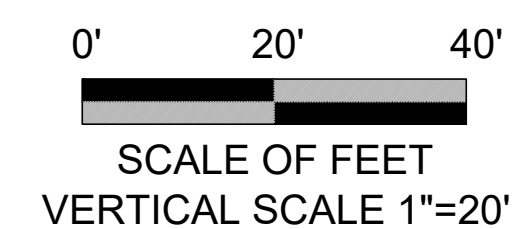
1. SEE AIRPORT LAYOUT PLAN (SHEET 3) FOR FULL LEGEND.
2. HELICOPTER APPROACH AND TRANSITIONAL SURFACES WHERE SURFACE HEIGHTS EXCEED THE CONTROLLING HEIGHTS OF THE RUNWAY TRANSITIONAL SURFACE ARE DEPICTED BY DASHED LINES FOR REFERENCE.
3. DETAILED DATA ARE PROVIDED FOR OBSTACLES IDENTIFIED BY RED TRIANGLES THAT ARE LESS THAN 10' BELOW THE CONTROLLING SURFACE OR ARE IDENTIFIED AS TRAVERSEWAYS. THE LOCATIONS OF OTHER OBSTACLES ARE DEPICTED BY GRAY DOTS FOR REFERENCE. CONSULT ADIP FOR DETAILED INFO ON THESE FEATURES.
4. SEE AIRPORT AIRSPACE PLAN (SHEET 8) AND RW 16 INNER APPROACH PLAN (SHEET 9) FOR DETAILS FOR UNLABELED OBSTACLES.
5. HELIPAD TRANSITIONAL SURFACE OBSTRUCTIONS ARE DEPICTED AND LABELED IN THE PLAN VIEW, BUT NOT IN APPROACH SURFACE PROFILE VIEW. SEE OBSTRUCTION TABLES ON SHEET 17 FOR DETAILS.



HELICOPTER LANDING AREA

PROFILE VIEW

-  OBSTACLE > 10' BELOW SURFACE
 OBSTACLE < 10' BELOW SURFACE
 AND HIGHER, OR TRAVERSEWAY



NO.

DATE

BY

APPR

REVISIONS

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BEND, OR. 97702

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541.382.2423 FAX

DESIGNED BY:

MD

DRAWN BY:

MS

CHECKED BY:

WMR

SCALE:

AS SHOWN

DATE:

JANUARY 2022

PROJECT NO.:

10051.110.01

BEND MUNICIPAL AIRPORT

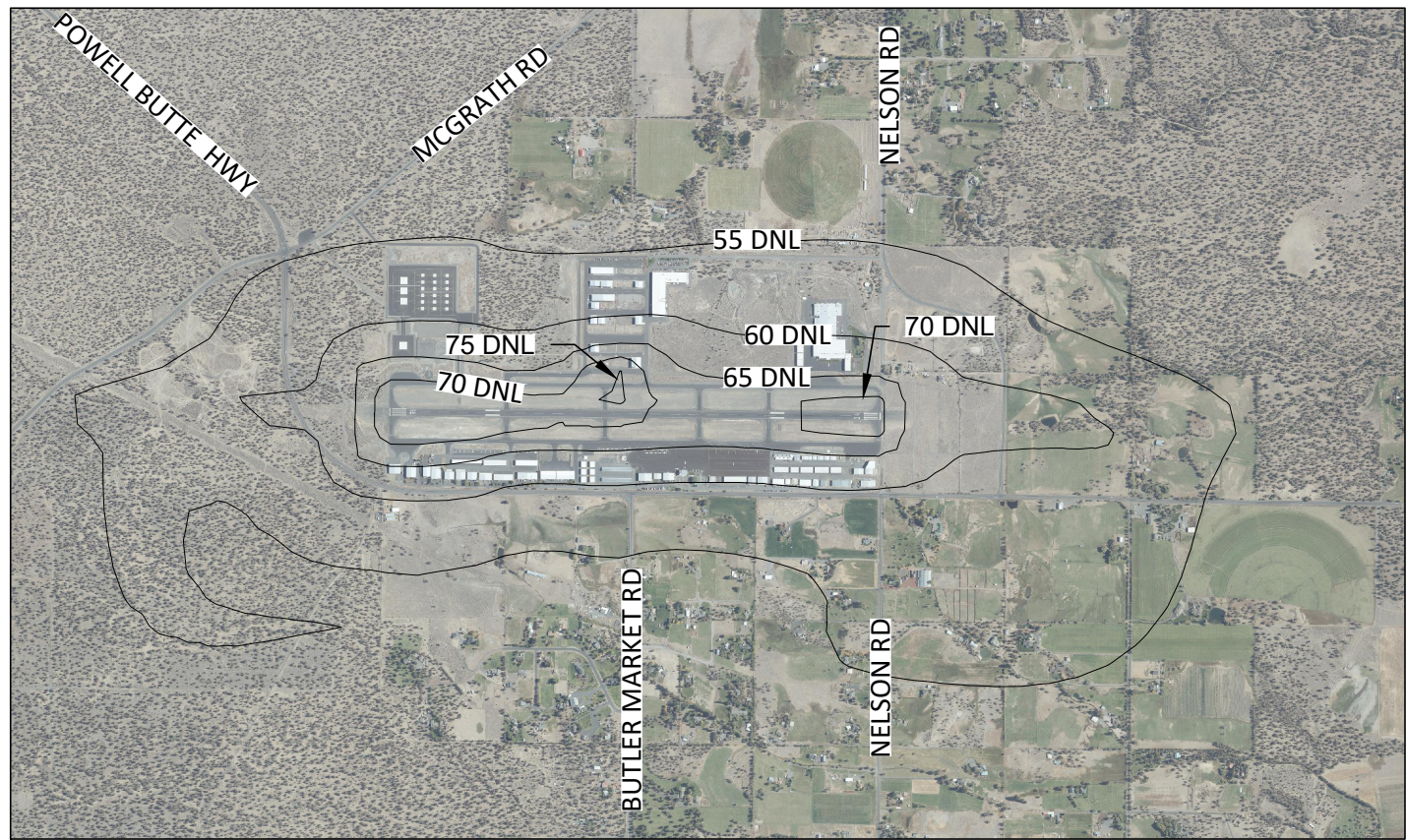
HELICOPTER AIRSPACE PLAN AND PROFILE (PART 77)

FIGURE NO.

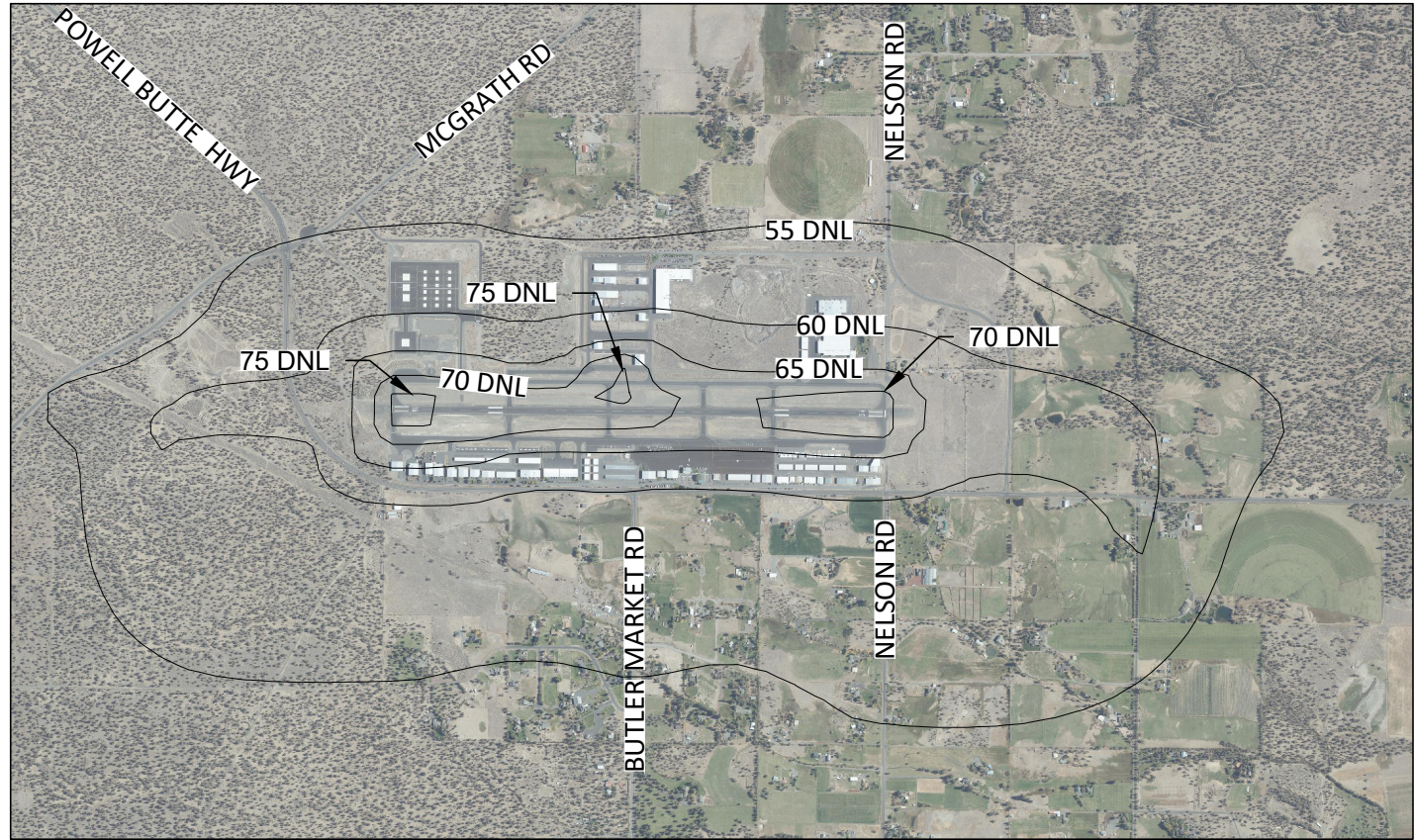
-

SHEET NO.

12 OF 18



EXISTING (2019) NOISE CONTOURS



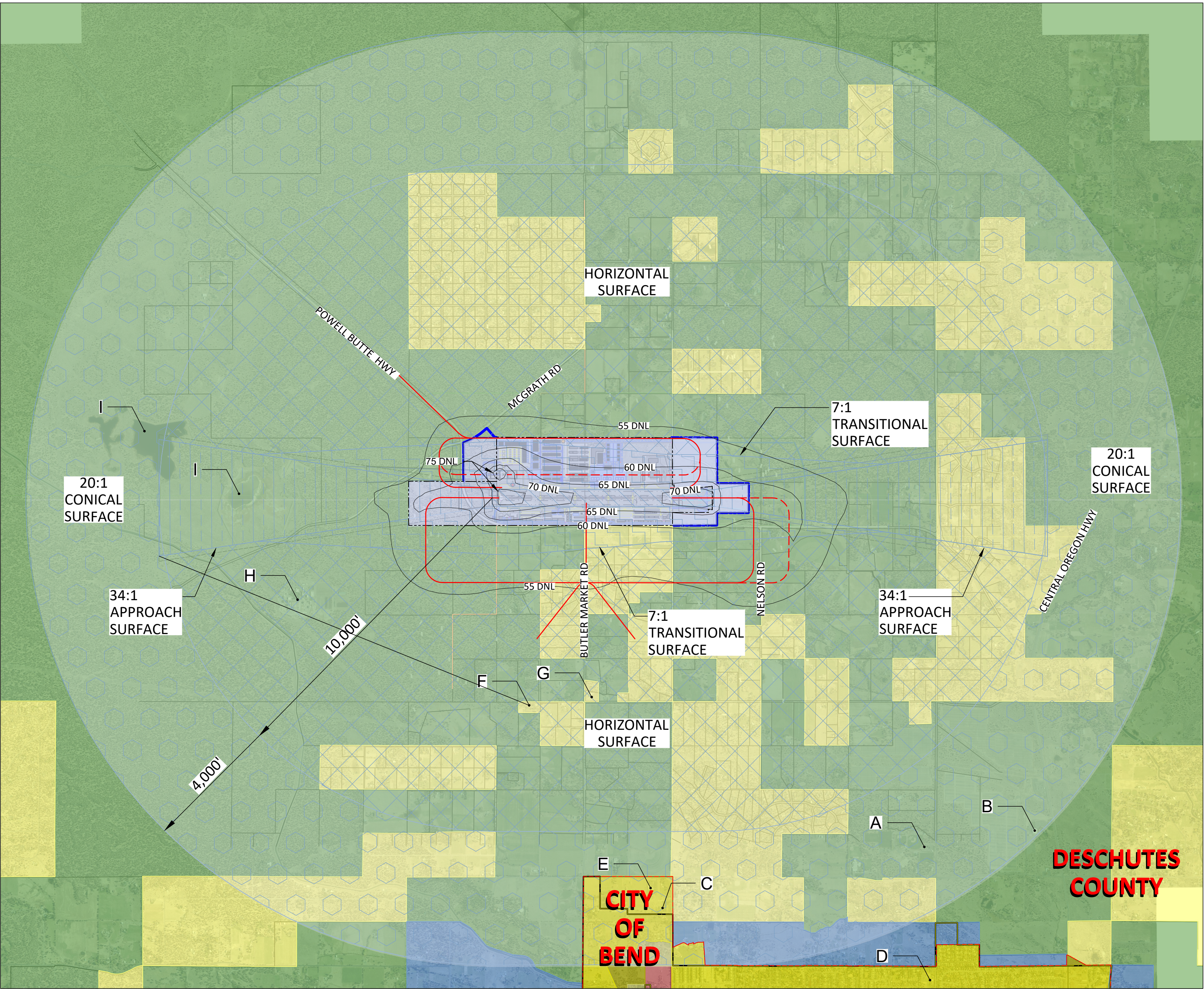
5-YEAR NOISE CONTOURS



20-YEAR NOISE CONTOURS

NOTES:

- THE AIRPORT IS LOCATED OUTSIDE THE CITY OF BEND URBAN GROWTH AREA IN UNINCORPORATED DESCHUTES COUNTY.
- EXISTING AIRPORT LAND ZONED EFUAL IS RECOMMENDED FOR RE-ZONING TO AIRPORT DEVELOPMENT (AD).
- FUTURE PROPERTY ACQUISITION OF PARCELS ZONED EFU ALSO RECOMMENDED FOR RE-ZONING TO AD.
- CURRENT AD ZONE SUB-DISTRICTS ARE RECOMMENDED FOR REMOVAL AND REZONING TO AD.
- CURRENT AO OVERLAY DISTRICT IS RECOMMENDED FOR UPDATE TO REFLECT PLANNED PART 77 AIRSPACE AS SHOWN.



LEGEND

- AIRPORT PROPERTY BOUNDARY
- FUTURE AIRPORT PROPERTY BOUNDARY
- RPZ
- FUTURE RPZ
- EXISTING AIR TRAFFIC PATTERN
- FUTURE AIR TRAFFIC PATTERN
- NOISE CONTOUR
- CITY LIMITS
- URBAN GROWTH BOUNDARY
- ROADWAY
- FUTURE ROADWAY
- AIRFIELD PAVEMENT
- FUTURE AIRFIELD PAVEMENT
- BUILDING
- FUTURE BUILDING

LAND USE

- AIRPORT DEVELOPMENT (AD)
- AGRICULTURAL (AG)
- GENERAL COMMERCIAL (GC)
- HIGH DENSITY RESIDENTIAL (HDR)
- MEDIUM DENSITY RESIDENTIAL (MDR)
- STANDARD DENSITY RESIDENTIAL (SDR)
- RURAL RESIDENTIAL EXCEPTION AREA (RREA)
- URBAN RESERVE (UR)

PUBLIC FACILITY KEY

A	BIG SKY PARK
B	CHRISTIAN LIFE CENTER
C	THE FELLOWSHIP AT BEND
D	EASTMONT CHURCH
E	BEND SEVENTH DAY ADVENTIST CHRUCH
F	THE ACADEMY AT SISTERS
G	NEW LEAF ACADEMY
H	BEND WASTEWATER PLANT
I	HATFIELD PONDS

PART 77 SURFACES

- PRIMARY SURFACE
- APPROACH SURFACE
- TRANSITIONAL SURFACE
- HORIZONTAL SURFACE
- CONICAL SURFACE

NO.	DATE	BY	APPR	REVISIONS

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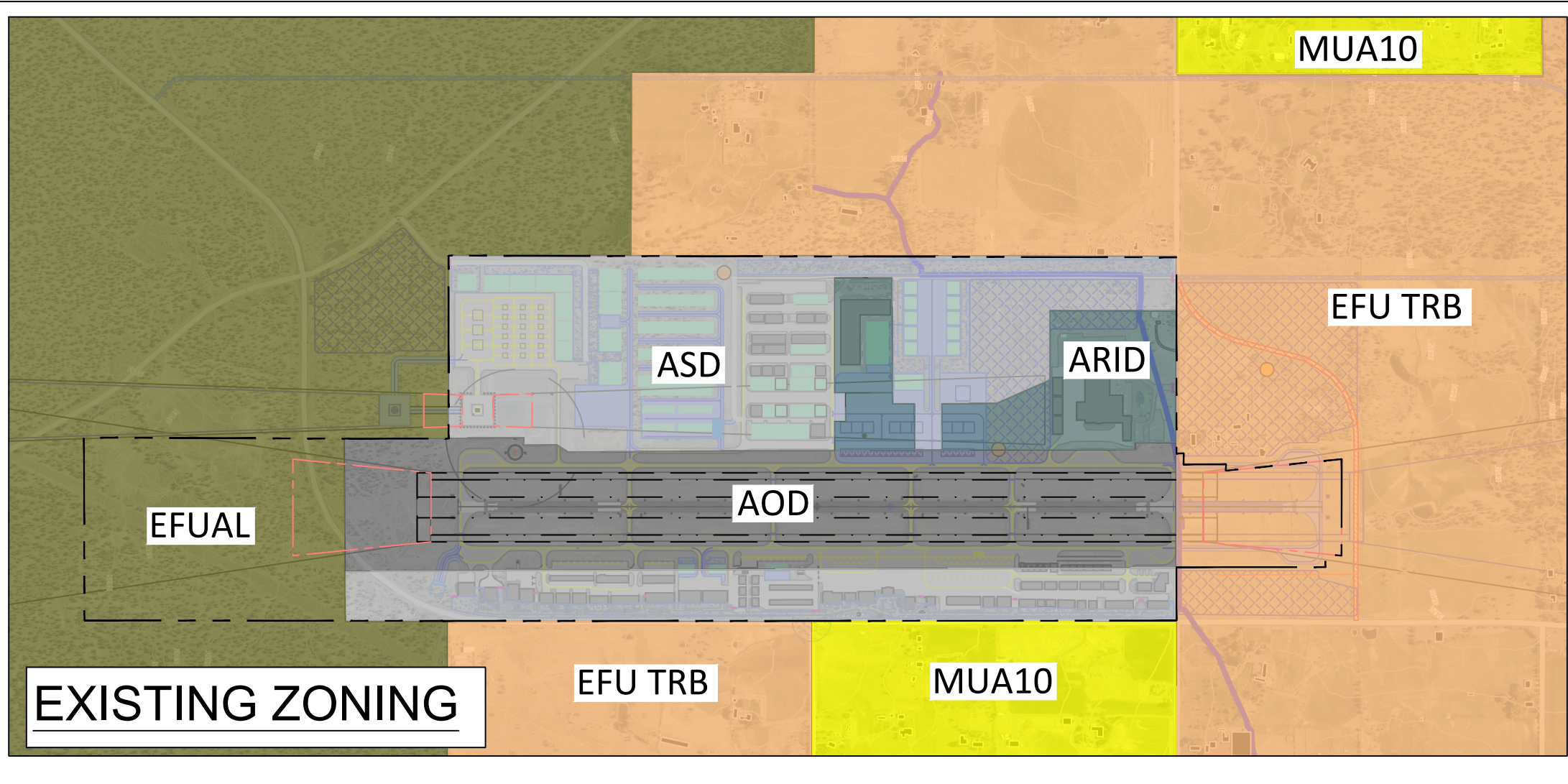
DESIGNED BY: MD	DRAWN BY: MS	CHECKED BY: WMR	SCALE: AS SHOWN
DATE: JANUARY 2022		PROJECT NO: 10051.110.01	

BEND MUNICIPAL AIRPORT

OFF-AIRPORT LAND USE PLAN

FIGURE NO.
-

SHEET NO.
13 OF 18



DESCHUTES COUNTY ZONING

	EXCLUSIVE FARM USE (EFU AL)
	EXCLUSIVE FARM USE (EFU TRB)
	MULTI USE AGRICULTURAL (MUA10)
	AIRFIELD OPERATIONS DISTRICT (AOD)
	AVIATION RELATED INDUSTRIAL DISTRICT (ARID)
	AVIATION SUPPORT DISTRICT (ASD)

FUTURE COMPREHENSIVE PLAN DESIGNATION

	AIRPORT DEVELOPMENT (AD)
	AGRICULTURAL (AG)
	RURAL RESIDENTIAL EXCEPTION AREA (RREA)

LEGEND

	AIRPORT PROPERTY BOUNDARY
	FUTURE AIRPORT PROPERTY BOUNDARY
	RPZ
	FUTURE RPZ
	NOISE CONTOUR (20-YEAR)
	ROADWAY
	FUTURE ROADWAY
	AIRFIELD PAVEMENT
	FUTURE AIRFIELD PAVEMENT
	BUILDING
	FUTURE BUILDING
	FUTURE ROAD ALIGNMENT
	LONG-TERM AIRPORT DEVELOPMENT RESERVE STUDY AREA

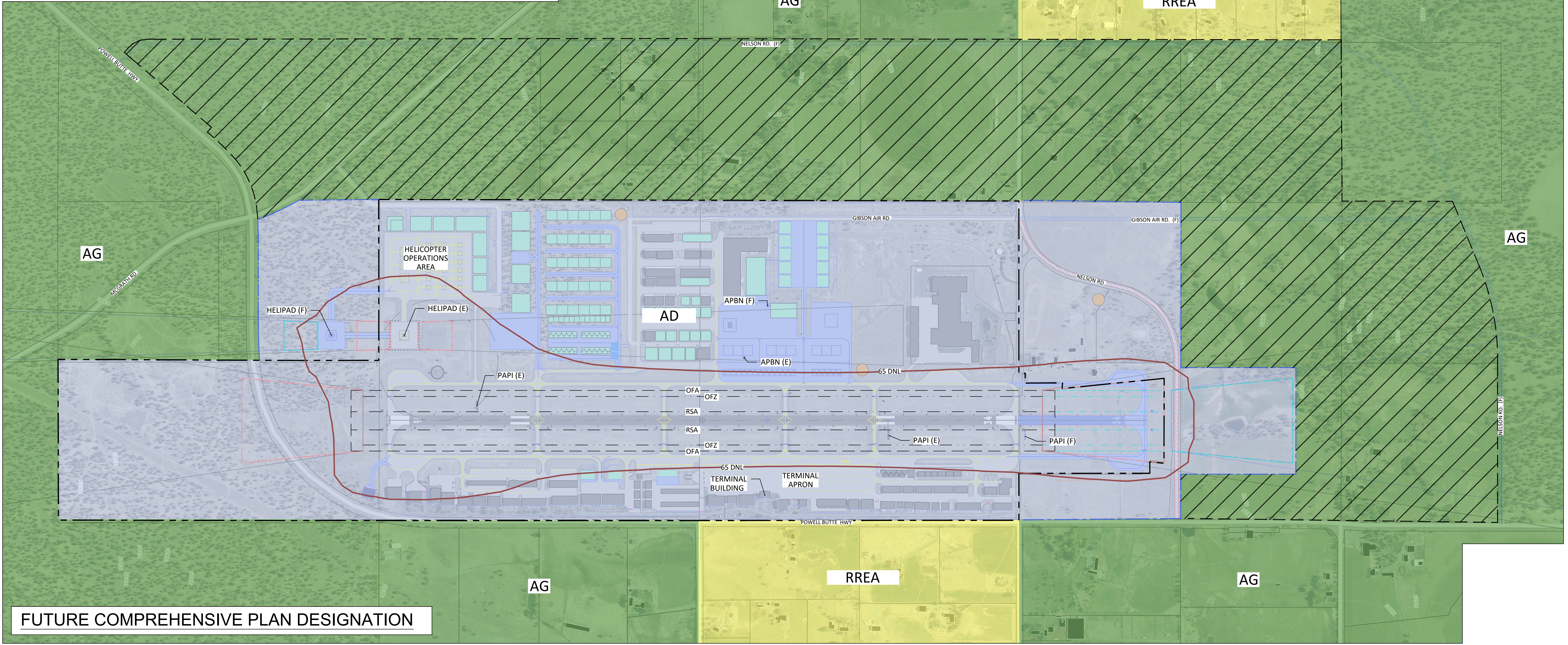
NOTES:

1. THE AIRPORT IS LOCATED OUTSIDE THE CITY OF BEND URBAN GROWTH AREA IN UNINCORPORATED DESCHUTES COUNTY.
2. EXISTING AIRPORT LAND ZONED EFUAL IS RECOMMENDED FOR RE-ZONING TO AIRPORT DEVELOPMENT (AD).
3. FUTURE PROPERTY ACQUISITION OF PARCELS ZONED EFU ALSO RECOMMENDED FOR RE-ZONING TO AD.
4. CURRENT AD ZONE SUB-DISTRICTS ARE RECOMMENDED FOR REMOVAL AND REZONING TO AD.
5. THE LONG-TERM AIRPORT DEVELOPMENT RESERVE STUDY AREA IS NOT INTENDED TO BE A CHANGE IN COMPREHENSIVE PLAN DESIGNATION AT THIS TIME, AND WILL REQUIRE ADDITIONAL PLANNING STUDY BEFORE COUNTY ADOPTION.

MAGNETIC DEC.
14° 26' EAST
(2018 VALUE)

0' 200' 400'

Scale: 1"=400'

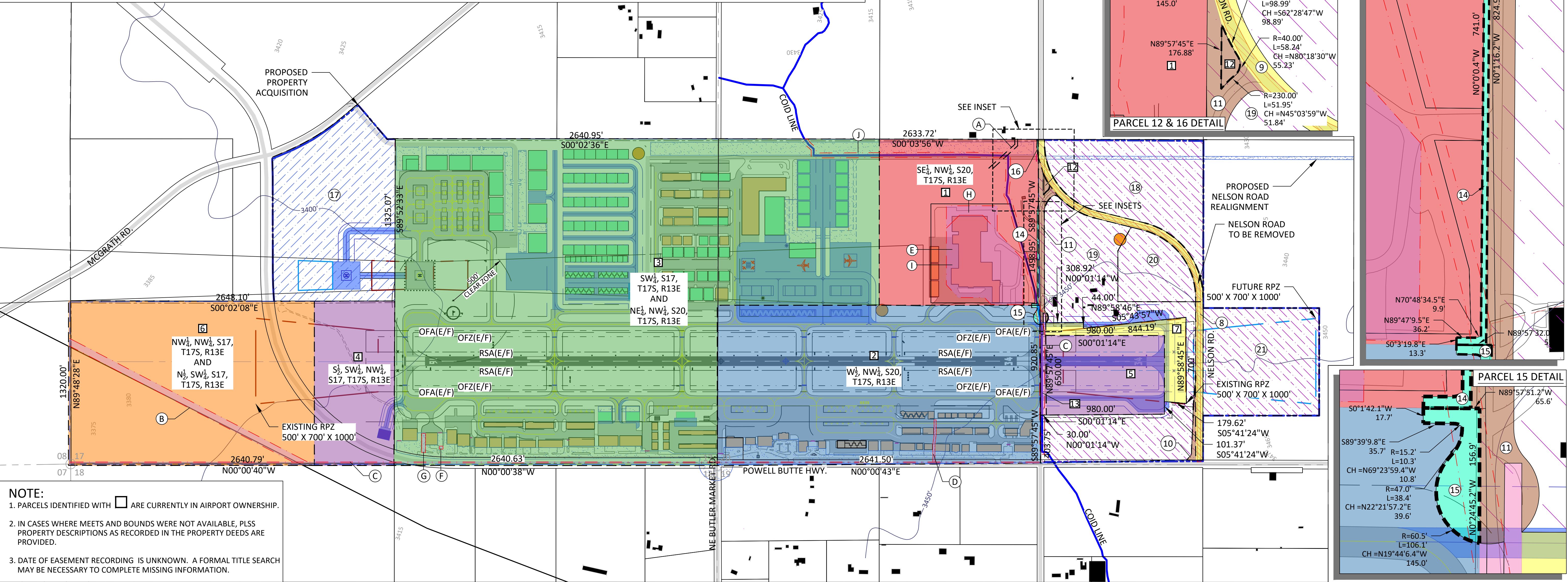


<table><tr><th>NO.</th><th>DATE</th><th>BY</th><th>APPR</th><th>REVISIONS</th></tr><tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr></table>	NO.	DATE	BY	APPR	REVISIONS																					VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING. 0" 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	DESIGNED BY: MD DRAWN BY: MS CHECKED BY: WMR SCALE: AS SHOWN DATE: JANUARY 2022 PROJECT NO: 10051.110.01	BEND OFFICE 1020 SW EMKAY DRIVE., #100 BEND, OR 97702 541.322.8962 OFFICE 541.382.2423 FAX	BEND MUNICIPAL AIRPORT	FIGURE NO. -
NO.	DATE	BY	APPR	REVISIONS																										
ON-AIRPORT LAND USE PLAN				SHEET NO. 14 OF 18																										

LAND DATA TABLE										
PARCEL	GRANTOR	ACRES	RECORDING INFORMATION			INTEREST	INSTRUMENT	PURPOSE	FED. AGREEMENT	NOTES
			DATE	BOOK	PAGE					
1	EUGENE AND DORA FITZGERALD	40	5-13-42	61	360	FEE	DEED	DEVELOPMENT	5-13-42	
2	HAROLD AND EMMA SHANNO	80	7-29-42	61	521	FEE	DEED	DEVELOPMENT	7-29-42	
3	U.S.A.	200	9-18-51	91	230	PATENT	DEED	DEVELOPMENT	SEC. 16-FAAP	
4	DESCHUTES COUNTY	20	8-29-77	257	348	FEE	DEED	DEVELOPMENT	ADAP-01	
5	PATRICK AND MARJORIE GIBSON	14.6	3-31-80	319	623	FEE	DEED	DEVELOPMENT	ADAP-01	
6	DESCHUTES COUNTY	60.2	10-25-84	78	739	FEE	DEED	DEVELOPMENT	AIP-02	29.75 ACRES USED AS SPONSOR MATCH FOR AIP-03
7	GIBSON AIRPARK LLC	4.99	8-1-03	2003	68022	FEE	DEED	DEVELOPMENT	AIP-010	
8	DESCHUTES COUNTY	1.78	8-4-03	2003	68022	FEE	DEED	DEVELOPMENT	AIP-010	PREVIOUSLY TRANSFERRED TO COUNTY, TO BE REACQUIRED
9	DESCHUTES COUNTY	2.60	8-4-03	2003	68022	FEE	DEED	DEVELOPMENT	AIP-010	PREVIOUSLY TRANSFERRED TO COUNTY, TO BE REACQUIRED
10	DESCHUTES COUNTY	0.32	9-10-04	2004	54375	FEE	DEED	DEVELOPMENT	AIP-011	PREVIOUSLY TRANSFERRED TO COUNTY, TO BE REACQUIRED
11	DESCHUTES COUNTY	0.42	9-10-04	2004	54375	FEE	DEED	DEVELOPMENT	AIP-011	PREVIOUSLY TRANSFERRED TO COUNTY, TO BE REACQUIRED
12	GIBSON AIRPARK LLC	0.12	9-10-04	2004	54375	FEE	DEED	DEVELOPMENT	AIP-011	
13	DESCHUTES COUNTY	0.76	PENDING			FEE	-	DEVELOPMENT	N/A	ACQUIRED FROM COUNTY AFTER REALIGNMENT OF NELSON RD.
14	DESCHUTES COUNTY	0.38	PENDING			FEE	-	DEVELOPMENT	N/A	PREVIOUSLY TRANSFERRED TO COUNTY, TO BE REACQUIRED
15	DESCHUTES COUNTY	0.17	PENDING			FEE	-	DEVELOPMENT	N/A	PREVIOUSLY TRANSFERRED TO COUNTY, TO BE REACQUIRED
16	DESCHUTES COUNTY	0.03	PENDING			FEE	-	DEVELOPMENT	N/A	PREVIOUSLY TRANSFERRED TO COUNTY, TO BE REACQUIRED
17	DESCHUTES COUNTY	31.75	-			FEE	-	DEVELOPMENT	N/A	TO BE ACQUIRED
18	TRITON-AMERICA, LLC	19.23	-			FEE	-	DEVELOPMENT	N/A	TO BE ACQUIRED
19	TRITON-AMERICA, LLC	27.82	-			FEE	-	DEVELOPMENT	N/A	TO BE ACQUIRED
20	TRITON-AMERICA, LLC	6.97	-			FEE	-	DEVELOPMENT	N/A	TO BE ACQUIRED
21	FRANK MARRON	19.14	-			FEE	-	DEVELOPMENT	N/A	TO BE ACQUIRED

EASEMENTS			
PARCEL	GRANTOR		DATE
A	CENTRAL OREGON IRRIGATION DISTRICT	CANALS AND DITCHES	AUGUST 13, 1952
B	CITY OF PACIFIC GAS TRANSMISSION CO.	GAS TRANSMISSION LINE	JUNE 8, 1972
C	CENTRAL ELECTRIC COOPERATION, INC. PACIFIC POWER AND LIGHT CO.	POWER LINE CORRECTED BY V11 P900	MARCH 23, 1979 SEPTEMBER 7, 1982
D	PACIFIC POWER AND LIGHT CO. CITY TO DESCHUTES COUNTY	POWER EASEMENT FOR WASTEWATER NW 1/4, NW 1/4, SEC.17, T17S, R.13E	APRIL 25, 1983 FEBRUARY 14, 1991
E	PACIFIC AVIATION COMPOSITES U.S.A. LLC. TO CITY OF BEND	WATERLINE	AUGUST 7, 1997
F	SMC CORP. TO CITY OF BEND	WATERLINE	APRIL 6, 1999
G	SMC CORP. TO CITY OF BEND	WATERLINE	APRIL 6, 1999
H	COLUMBIA AIRCRAFT (FORMERLY LANCAIR) TO CITY OF BEND	WATERLINE	APRIL 6, 2004
I	COLUMBIA AIRCRAFT (FORMERLY LANCAIR) TO CITY OF BEND	EASEMENT FOR EXISTING WATERLINE	APRIL 6, 2004
J	CITY OF BEND TO CENTRAL OREGON IRRIGATION DISTRICT	IRRIGATION LINE EASEMENT DOC 2008-35726 (PG 8-COID COMMENT)	(NOTE 3)

LEGEND	
	EXISTING PAVEMENT
	FUTURE PAVEMENT
	EASEMENT (EXISTING)
	AIRPORT PROPERTY LINE (EXISTING)
	AIRPORT PROPERTY LINE (FUTURE)
	PARCEL LINES
	PLSS SECTION LINE



NOTE:
1. PARCELS IDENTIFIED WITH ARE CURRENTLY IN AIRPORT OWNERSHIP.
2. IN CASES WHERE MEETS AND BOUNDS WERE NOT AVAILABLE, PLSS PROPERTY DESCRIPTIONS AS RECORDED IN THE PROPERTY DEEDS ARE PROVIDED.
3. DATE OF EASEMENT RECORDING IS UNKNOWN. A FORMAL TITLE SEARCH MAY BE NECESSARY TO COMPLETE MISSING INFORMATION.

NO.	DATE	BY	APPR	REVISIONS

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BEND MUNICIPAL AIRPORT

EXHIBIT "A" AIRPORT PROPERTY PLAN

FIGURE NO. -

SHEET NO. 15 OF 18

FAR PART 77 RUNWAY 16-34 PRIMARY SURFACE OBSTRUCTIONS										
OBSTACLE ID	DESCRIPTION	SURVEY DATE	SURFACE	GROUND ELEVATION (FT)	AGL (FT)	TOP HEIGHT (FT)	SURFACE HEIGHT (FT)	PENETRATION (FT)	DISPOSITION	MITIGATION TIMEFRAME
239	RUNWAY LIGHT	10/11/2018	PRIM	3459.6	1.1	3460.8	3459.4	1.4	FIXED BY FUNCTION	NO ACTION
240	RUNWAY LIGHT	10/11/2018	PRIM	3459.5	1.3	3460.8	3459.4	1.4	FIXED BY FUNCTION	NO ACTION
360	PAPI 16	10/11/2018	PRIM	3404.3	3.0	3407.3	3405.3	2.0	FIXED BY FUNCTION	NO ACTION
414	RUNWAY LIGHT	10/11/2018	PRIM	3403.0	1.4	3404.4	3403.0	1.3	FIXED BY FUNCTION	NO ACTION
415	RUNWAY LIGHT	10/11/2018	PRIM	3403.1	1.2	3404.3	3403.0	1.2	FIXED BY FUNCTION	NO ACTION
520	TAXIWAY LIGHT	10/11/2018	PRIM	3423.8	1.8	3425.6	3424.3	1.4	FIXED BY FUNCTION	NO ACTION
562	TAXIWAY SIGN	10/11/2018	PRIM	3444.0	2.0	3446.0	3444.0	2.0	FIXED BY FUNCTION	NO ACTION
686	PAPI 34	10/11/2018	PRIM	3444.7	3.3	3448.0	3446.6	1.4	FIXED BY FUNCTION	NO ACTION

FAR PART 77 RUNWAY 16-34 TRANSITIONAL SURFACE OBSTRUCTIONS										
OBSTACLE ID	DESCRIPTION	SURVEY DATE	SURFACE	GROUND ELEVATION (FT)	AGL (FT)	TOP HEIGHT (FT)	SURFACE HEIGHT (FT)	PENETRATION (FT)	DISPOSITION	MITIGATION TIMEFRAME
217	TREE	10/11/2018	TRANS	3461.6	82.0	3543.6	3536.5	7.1	TO BE REMOVED	15-20 YEARS
241	TREE	10/11/2018	TRANS	3452.4	43.4	3495.8	3476.3	19.5	TO BE REMOVED	15-20 YEARS
242	TREE	10/11/2018	TRANS	3454.8	29.8	3484.6	3465.6	19.0	TO BE REMOVED	15-20 YEARS
243	TREE	10/11/2018	TRANS	3452.8	40.3	3493.1	3472.2	20.9	TO BE REMOVED	15-20 YEARS
244	TREE	10/11/2018	TRANS	3449.8	44.2	3494.1	3488.8	5.3	TO BE REMOVED	15-20 YEARS
246	CATENARY	10/11/2018	TRANS	3449.0	36.2	3485.3	3480.8	4.4	TO BE REMOVED	15-20 YEARS
247	TREE	10/11/2018	TRANS	3453.2	40.7	3493.9	3494.0	-0.1	NO OBSTRUCTION	NO ACTION
248	TREE	10/11/2018	TRANS	3455.0	26.0	3481.0	3476.3	4.7	TO BE REMOVED	15-20 YEARS
249	TREE	10/11/2018	TRANS	3454.6	40.1	3494.7	3482.0	12.7	TO BE REMOVED	15-20 YEARS
250	TREE	10/11/2018	TRANS	3452.8	40.1	3493.0	3488.4	4.6	TO BE REMOVED	15-20 YEARS
251	TREE	10/11/2018	TRANS	3451.4	45.2	3496.6	3494.7	1.9	TO BE REMOVED	15-20 YEARS
253	TREE	10/11/2018	TRANS	3451.9	35.3	3487.2	3488.6	-1.4	NO OBSTRUCTION	NO ACTION
254	POLE	10/11/2018	TRANS	3449.9	34.9	3484.8	3485.5	-0.7	NO OBSTRUCTION	NO ACTION
300	BUILDING	10/11/2018	TRANS	3427.7	32.5	3460.1	3469.9	-9.8	NO OBSTRUCTION	NO ACTION
302	BUILDING	10/11/2018	TRANS	3428.3	31.9	3460.1	3462.4	-2.2	NO OBSTRUCTION	NO ACTION
334	TREE	10/11/2018	TRANS	3415.1	30.1	3445.2	3447.3	-2.1	NO OBSTRUCTION	NO ACTION
344	TREE	10/11/2018	TRANS	3415.8	37.1	3452.9	3456.4	-3.5	NO OBSTRUCTION	NO ACTION
347	TREE	10/11/2018	TRANS	3414.2	34.6	3448.8	3450.8	-2.0	NO OBSTRUCTION	NO ACTION
361	WINDSOCK	10/11/2018	TRANS	3405.5	25.1	3430.7	3424.5	6.1	TO BE REMOVED	15-20 YEARS
362	POLE	10/11/2018	TRANS	3405.3	35.8	3441.1	3438.8	2.4	TO BE REMOVED	15-20 YEARS
380	TREE	10/11/2018	TRANS	3390.3	28.7	3419.0	3409.8	9.2	TO BE REMOVED	15-20 YEARS
382	TREE	10/11/2018	TRANS	3390.4	35.5	3425.9	3424.3	1.6	TO BE REMOVED	15-20 YEARS
383	TREE	10/11/2018	TRANS	3387.8	41.6	3429.3	3415.9	13.5	TO BE REMOVED	15-20 YEARS
681	PRIMARY ROAD	10/11/2018	TRANS	3451.6	15.0	3466.6	3475.3	-8.7	NO OBSTRUCTION	NO ACTION
682	PRIMARY ROAD	10/11/2018	TRANS	3451.4	15.0	3466.4	3473.8	-7.3	NO OBSTRUCTION	NO ACTION
238	CATENARY	10/11/2018	TRANS	3456.3	29.6	3485.8	3456.6	29.2	TO BE REMOVED	15-20 YEARS
441	TREE	10/11/2018	TRANS	3404.0	39.2	3443.2	3452.5	-9.3	NO OBSTRUCTION	NO ACTION
450	SCRUB	10/11/2018	TRANS	3404.1	3.2	3407.3	3411.4	-4.1	NO OBSTRUCTION	NO ACTION
451	TAXIWAY LIGHT	10/11/2018	TRANS	3403.3	1.9	3405.1	3406.0	-0.9	NO OBSTRUCTION	NO ACTION
453	POLE	10/11/2018	TRANS	3405.5	37.6	3443.1	3451.2	-8.1	NO OBSTRUCTION	NO ACTION
458	TREE	10/11/2018	TRANS	3409.3	32.5	3441.8	3448.3	-6.5	NO OBSTRUCTION	NO ACTION
459	TREE	10/11/2018	TRANS	3408.1	19.6	3427.7	3436.1	-8.4	NO OBSTRUCTION	NO ACTION
460	TAXIWAY LIGHT	10/11/2018	TRANS	3404.0	1.8	3405.8	3415.2	-9.4	NO OBSTRUCTION	NO ACTION
486	TAXIWAY LIGHT	10/11/2018	TRANS	3412.5	1.4	3413.9	3423.5	-9.6	NO OBSTRUCTION	NO ACTION
519	TAXIWAY LIGHT	10/11/2018	TRANS	3425.4	1.8	3427.2	3428.7	-1.5	NO OBSTRUCTION	NO ACTION
521	TAXIWAY LIGHT	10/11/2018	TRANS	3428.3	1.7	3430.0	3431.0	-1.0	NO OBSTRUCTION	NO ACTION
539	BUILDING	10/11/2018	TRANS	3437.5	36.0	3473.5	3481.6	-8.2	NO OBSTRUCTION	NO ACTION
546	TREE	10/11/2018	TRANS	3442.1	87.8	3529.9	3533.7	-3.8	NO OBSTRUCTION	NO ACTION
564	BUILDING	10/11/2018	TRANS	3448.8	19.9	3468.7	3477.2	-8.4	NO OBSTRUCTION	NO ACTION
576	BUILDING	10/11/2018	TRANS	3451.2	22.0	3473.2	3477.4	-4.2	NO OBSTRUCTION	NO ACTION
577	TAXIWAY LIGHT	10/11/2018	TRANS	3450.7	2.2	3452.9	3461.8	-9.0	NO OBSTRUCTION	NO ACTION
579	BUILDING	10/11/2018	TRANS	3455.1	19.1	3474.3	3481.5	-7.3	NO OBSTRUCTION	NO ACTION
586	BUILDING	10/11/2018	TRANS	3457.0	19.9	3476.9	3483.6	-6.7	NO OBSTRUCTION	NO ACTION
595	BUILDING	10/11/2018	TRANS	3461.0	33.5	3494.4	3496.2	-1.8	NO OBSTRUCTION	NO ACTION
596	BUILDING	10/11/2018	TRANS	3461.6	29.8	3491.4	3490.6	0.8	TO BE REMOVED	15-20 YEARS
611	TREE	10/11/2018	TRANS	3472.8	78.1	3550.9	3560.9	-10.0	NO OBSTRUCTION	NO ACTION
620	POLE	10/11/2018	TRANS	3459.9	33.9	3493.8	3489.1	4.7	TO BE REMOVED	15-20 YEARS
685	TAXIWAY LIGHT	10/11/2018	TRANS	3414.8	1.7	3416.6	3418.5	-1.9	NO OBSTRUCTION	NO ACTION

FAR PART 77 RUNWAY 16-34 HORIZONTAL SURFACE OBSTRUCTIONS										
OBSTACLE ID	DESCRIPTION	SURVEY DATE	SURFACE	GROUND ELEVATION (FT)	AGL (FT)	TOP HEIGHT (FT)	SURFACE HEIGHT (FT)	PENETRATION (FT)	DISPOSITION	MITIGATION TIMEFRAME
8	POLE	10/11/2018	HORZ	3534.2	70.9	3605.1	3609.4	-4.4	NO OBSTRUCTION	NO ACTION
9	POLE	10/11/2018	HORZ	3535.1	72.4	3607.6	3609.4	-1.9	NO OBSTRUCTION	NO ACTION
14	POLE	10/11/2018	HORZ	3537.1	75.5	3612.6	3609.4	3.2	TO BE LIGHTED	15-20 YEARS
61	TREE	10/11/2018	HORZ	3562.8	78.3	3641.1	3609.4	31.6	TO BE REMOVED	15-20 YEARS
62	TREE	10/11/2018	HORZ	3550.6	74.6	3625.3	3609.4	15.8	TO BE REMOVED	15-20 YEARS
67	TREE	10/11/2018	HORZ	3535.7	79.3	3615.0	3609.4	5.5	TO BE REMOVED	15-20 YEARS
68	POLE	10/11/2018	HORZ	3538.6	79.6	3618.2	3609.4	8.8	TO BE LIGHTED	15-20 YEARS
69	POLE	10/11/2018	HORZ	3548.9	70.6	3619.5	3609.4	10.1	TO BE LIGHTED	15-20 YEARS
70	POLE	10/11/2018	HORZ	3556.2	68.1	3624.3	3609.4	14.9	TO BE LIGHTED	15-20 YEARS
71	POLE	10/11/2018	HORZ	3562.0	65.8	3627.7	3609.4	18.3	TO BE LIGHTED	15-20 YEARS
72	POLE	10/11/2018	HORZ	3565.4	74.2	3639.6	3609.4	30.1	TO BE LIGHTED	15-20 YEARS
73	POLE	10/11/2018	HORZ	3568.4	51.1	3619.5	3609.4	10.1	TO BE LIGHTED	15-20 YEARS
74	POLE	10/11/2018	HORZ	3567.6	68.8	3636.4	3609.4	27.0	TO BE LIGHTED	15-20 YEARS
75	CATENARY	10/11/2018	HORZ	3569.1	70.2	3639.3	3609.4	29.9	TO BE MARKED	15-20 YEARS
76	POLE	10/11/2018	HORZ	3566.3	50.8	3617.1	3609.4	7.7	TO BE LIGHTED	15-20 YEARS
77	POLE	10/11/2018	HORZ	3577.0	54.2	3631.2	3609.4	21.8	TO BE LIGHTED	15-20 YEARS
78	TREE	10/11/2018	HORZ	3574.7	58.1	3632.8	3609.4	23.3	TO BE REMOVED	15-20 YEARS
82	TREE	10/11/2018	HORZ	3563.6	55.8	3619.4	3609.4	10.0	TO BE REMOVED	15-20 YEARS
85	TREE	10/11/2018	HORZ	3552.4	79.8	3632.2	3609.4	22.8	TO BE REMOVED	15-20 YEARS
89	TREE	10/11/2018	HORZ	3581.5	83.3	3664.8	3609.4	55.3	TO BE REMOVED	15-20 YEARS
102	TREE	10/11/2018	HORZ	3577.2	72.2	3649.4	3609.4	40.0	TO BE REMOVED	15-20 YEARS
105	TREE	10/11/2018	HORZ	3562.5	60.1	3622.6	3609.4	13.2	TO BE REMOVED	15-20 YEARS
111	POLE	10/11/2018	HORZ	3580.7	38.7	3619.4	3609.4	9.9	TO BE LIGHTED	15-20 YEARS
112	POLE	10/11/2018	HORZ	3565.2	61.9	3627.1	3609.4	17.7	TO BE LIGHTED	15-20 YEARS
113	POLE	10/11/2018	HORZ	3562.9	64.8	3627.7	3609.4	18.2	TO BE LIGHTED	15-20 YEARS
114	POLE	10/11/2018	HORZ	3561.4	60.4	3621.8	3609.4	12.4	TO BE LIGHTED	15-20 YEARS
119	TREE	10/11/2018	HORZ	3567.4	77.3	3644.7	3609.4	35.2	TO BE REMOVED	15-20 YEARS
125	TREE	10/11/2018	HORZ	3554.9	63.8	3618.7	3609.4	9.2	TO BE REMOVED	15-20 YEARS
128	TREE	10/11/2018	HORZ	3559.4	59.9	3619.3	3609.4	9.9	TO BE REMOVED	15-20 YEARS
50	TREE	10/11/2018	HORZ	3512.8	92.3	3605.1	3609.4	-4.4	NO OBSTRUCTION	NO ACTION

FAR PART 77 RUNWAY 16 APPROACH SURFACE OBSTRUCTIONS										
OBSTACLE ID	DESCRIPTION	SURVEY DATE	SURFACE	GROUND ELEVATION (FT)	AGL (FT)	TOP HEIGHT (FT)	SURFACE HEIGHT (FT)	PENETRATION (FT)	DISPOSITION	MITIGATION TIMEFRAME
365	TREE	10/11/2018	APPR16	3395.8	27.4	3423.2	3421.7	1.5	TO BE REMOVED	0-10 YEARS
396	TREE	10/11/2018	APPR16	3388.0	23.1	3411.1	3408.2	2.9	TO BE REMOVED	0-10 YEARS
397	TREE	10/11/2018	APPR16	3388.7	22.4	3411.1	3407.9	3.2	TO BE REMOVED	0-10 YEARS
398	TREE	10/11/2018	APPR16	3387.1	26.4	3413.5	3410.1	3.3	TO BE REMOVED	0-10 YEARS
399	TREE	10/11/2018	APPR16	3384.6	34.7	3419.3	3414.4	4.9	TO BE REMOVED	0-10 YEARS
400	TREE	10/11/2018	APPR16	3385.6	34.2	3419.8	3419.0	0.9	TO BE REMOVED	0-10 YEARS
401	TREE	10/11/2018	APPR16	3389.7	34.0	3423.7	3424.6	-0.9	NO OBSTRUCTION	NO ACTION
402	TREE	10/11/2018	APPR16	3384.2	38.1	3422.4	3426.3	-3.9	NO OBSTRUCTION	NO ACTION
403	TREE	10/11/2018	APPR16	3395.0	26.9	3421.9	3418.3	3.6	TO BE REMOVED	0-10 YEARS
404	TREE	10/11/2018	APPR16	3395.7	26.5	3422.2	3420.0	2.2	TO BE REMOVED	0-10 YEARS
405	TREE	10/11/2018	APPR16	3396.4	31.0	3427.4	3424.1	3.3	TO BE REMOVED	0-10 YEARS
406	TREE	10/11/2018	APPR16	3395.5	38.3	3433.7	3426.7	7.0	TO BE REMOVED	0-10 YEARS
407	TREE	10/11/2018	APPR16	3397.3	29.2	3426.5	3426.0	0.5	TO BE REMOVED	0-10 YEARS
408	TREE	10/11/2018	APPR16	3396.1	40.5	3436.5	3430.8	5.8	TO BE REMOVED	0-10 YEARS
409	TREE	10/11/2018	APPR16	3390.8	36.7	3427.4	3432.2	-4.8	NO OBSTRUCTION	NO ACTION
410	TREE	10/11/2018	APPR16	3394.6	33.0	3427.6	3432.8	-5.2	NO OBSTRUCTION	NO ACTION
411	TREE	10/11/2018	APPR16	3393.9	31.7	3425.6	3433.1	-7.4	NO OBSTRUCTION	NO ACTION
412	TREE	10/11/2018	APPR16	3385.9	40.6	3426.5	3432.5	-6.0	NO OBSTRUCTION	NO ACTION
413	TREE	10/11/2018	APPR16	3387.0	36.0	3423.1	3428.3	-5.2	NO OBSTRUCTION	NO ACTION
419	LOCAL ROAD	10/11/2018	APPR16	3399.8	15.0	3414.8	3421.6	-6.8	NO OBSTRUCTION	NO ACTION
716	LOCAL ROAD	10/11/2018	APPR16	3401.0	15.0	3416.0	3419.5	-3.5	NO OBSTRUCTION	NO ACTION
717	LOCAL ROAD	10/11/2018	APPR16	3383.6	15.0	3398.6	3429.3	-30.7	NO OBSTRUCTION	NO ACTION
718	LOCAL ROAD	10/11/2018	APPR16	3385.7	15.0	3400.7	3480.5	-79.8	NO OBSTRUCTION	NO ACTION
719	LOCAL ROAD	10/11/2018	APPR16	3343.9	15.0	3358.9	3582.3	-223.4	NO OBSTRUCTION	NO ACTION

RUNWAY 16 (EXISTING) DEPARTURE SURFACE OBSTRUCTIONS										
OBSTACLE ID	DESCRIPTION	SURVEY DATE	SURFACE	GROUND ELEVATION (FT)	AGL (FT)	TOP HEIGHT (FT)	SURFACE HEIGHT (FT)	PENETRATION (FT)	DISPOSITION	MITIGATION TIMEFRAME
216	TREE	10/11/2018	DEPART RW34 (E)	3459.9	73.6	3533.5	3529.9	3.6	TO BE REMOVED	15-20 YEARS
217	TREE	10/11/2018	DEPART RW34 (E)	3461.6	82.0	3543.6	3530.3	13.2	TO BE REMOVED	15-20 YEARS
222	TREE	10/11/2018	DEPART RW34 (E)	3457.6	63.1	3520.7	3528.3	-7.6	NO OBSTRUCTION	NO ACTION
224	TREE	10/11/2018	DEPART RW34 (E)	3444.5	68.7	3513.2	3523.0	-9.9	NO OBSTRUCTION	NO ACTION
226	TREE	10/11/2018	DEPART RW34 (E)	3449.1	69.1	3518.3	3526.0	-7.8	NO OBSTRUCTION	NO ACTION
235	TREE	10/11/2018	DEPART RW34 (E)	3449.4	51.8	3501.2	3501.0	0.2	TO BE REMOVED	15-20 YEARS
236	TREE	10/11/2018	DEPART RW34 (E)	3450.7	44.5	3495.2	3496.2	-1.0	NO OBSTRUCTION	NO ACTION
237	POLE	10/11/2018	DEPART RW34 (E)	3451.9	34.7	3486.6	3491.4	-4.8	NO OBSTRUCTION	NO ACTION
238	CATENARY	10/11/2018	DEPART RW34 (E)	3456.3	29.6	3485.8	3491.3	-5.5	NO OBSTRUCTION	NO ACTION
239	RUNWAY LIGHT	10/11/2018	DEPART RW34 (E)	3459.6	1.1	3460.8	3459.7	1.1	FIXED BY FUNCTION	NO ACTION
240	RUNWAY LIGHT	10/11/2018	DEPART RW34 (E)	3459.5	1.3	3460.8	3459.7	1.1	FIXED BY FUNCTION	NO ACTION
241	TREE	10/11/2018	DEPART RW34 (E)	3452.4	43.4	3495.8	3481.2	14.6	TO BE REMOVED	15-20 YEARS
242	TREE	10/11/2018	DEPART RW34 (E)	3454.8	29.8	3484.6	3478.1	6.4	TO BE REMOVED	15-20 YEARS
243	TREE	10/11/2018	DEPART RW34 (E)	3452.8	40.3	3493.1	3481.8	11.4	TO BE REMOVED	15-20 YEARS
244	TREE	10/11/2018	DEPART RW34 (E)	3449.8	44.2	3494.1	3483.3	10.7	TO BE REMOVED	15-20 YEARS
245	TREE	10/11/2018	DEPART RW34 (E)	3447.8	47.7	3495.5	3482.9	12.5	TO BE REMOVED	15-20 YEARS
246	CATENARY	10/11/2018	DEPART RW34 (E)	3449.0	36.2	3485.3	3484.7	0.6	TO BE LIGHTED	15-20 YEARS
247	TREE	10/11/2018	DEPART RW34 (E)	3453.2	40.7	3493.9	3475.7	18.1	TO BE REMOVED	15-20 YEARS
248	TREE	10/11/2018	DEPART RW34 (E)	3455.0	26.0	3481.0	3474.4	6.6	TO BE REMOVED	15-20 YEARS
249	TREE	10/11/2018	DEPART RW34 (E)	3454.6	40.1	3494.7	3472.2	22.4	TO BE REMOVED	15-20 YEARS
250	TREE	10/11/2018	DEPART RW34 (E)	3452.8	40.1	3493.0	3467.1	25.9	TO BE REMOVED	15-20 YEARS
251	TREE	10/11/2018	DEPART RW34 (E)	3451.4	45.2	3496.6	3464.4	32.2	TO BE REMOVED	15-20 YEARS
253	TREE	10/11/2018	DEPART RW34 (E)	3451.9	35.3	3487.2	3461.3	25.9	TO BE REMOVED	15-20 YEARS
256	TREE	10/11/2018	DEPART RW34 (E)	3450.9	34.9	3485.9	3478.2	7.7	TO BE REMOVED	15-20 YEARS
598	GROUND	10/11/2018	DEPART RW34 (E)	3461.5	0.0	3461.5	3464.2	-2.7	NO OBSTRUCTION	NO ACTION
599	GROUND	10/11/2018	DEPART RW34 (E)	3464.0	0.0	3464.0	3464.2	-0.2	NO OBSTRUCTION	NO ACTION
603	FENCE	10/11/2018	DEPART RW34 (E)	3467.1	3.4	3470.6	3468.0	2.5	TO BE LIGHTED	15-20 YEARS
618	TREE	10/11/2018	DEPART RW34 (E)	3466.1	36.6	3502.7	3485.7	17.0	TO BE REMOVED	15-20 YEARS
619	POLE	10/11/2018	DEPART RW34 (E)	3466.0	38.1	3504.1	3489.8	14.3	TO BE LIGHTED	15-20 YEARS
620	POLE	10/11/2018	DEPART RW34 (E)	3459.9	33.9	3493.8	3490.9	2.8	TO BE LIGHTED	15-20 YEARS
621	POLE	10/11/2018	DEPART RW34 (E)	3466.6	37.8	3504.4	3498.7	5.7	TO BE LIGHTED	15-20 YEARS
622	TREE	10/11/2018	DEPART RW34 (E)	3472.7	53.6	3526.3	3502.8	23.5	TO BE REMOVED	15-20 YEARS
623	TREE	10/11/2018	DEPART RW34 (E)	3472.0	49.9	3521.9	3508.9	12.9	TO BE REMOVED	15-20 YEARS
624	TREE	10/11/2018	DEPART RW34 (E)	3469.3	59.0	3528.3	3513.0	15.3	TO BE REMOVED	15-20 YEARS
681	PRIMARY ROAD	10/11/2018	DEPART RW34 (E)	3451.6	15.0	3466.6	3459.9	6.7	TO BE RELOCATED	15-20 YEARS
695	LOCAL ROAD	10/11/2018	DEPART RW34 (E)	3469.8	15.0	3484.8	3492.2	-7.4	NO OBSTRUCTION	NO ACTION
696	LOCAL ROAD	10/11/2018	DEPART RW34 (E)	3441.4	15.0	3456.4	3489.9	-33.5	NO OBSTRUCTION	NO ACTION
697	LOCAL ROAD	10/11/2018	DEPART RW34 (E)	3535.2	15.0	3550.2	3657.8	-107.6	NO OBSTRUCTION	NO ACTION
698	LOCAL ROAD	10/11/2018	DEPART RW34 (E)	3543.0	15.0	3558.0	3697.9	-139.9	NO OBSTRUCTION	NO ACTION
699	PRIVATE ROAD	10/11/2018	DEPART RW34 (E)	3520.0	10.0	3530.0	3714.5	-184.4	NO OBSTRUCTION	NO ACTION
700	PRIVATE ROAD	10/11/2018	DEPART RW34 (E)	3513.6	10.0	3523.6	3707.0	-183.4	NO OBSTRUCTION	NO ACTION
701	LOCAL ROAD	10/11/2018	DEPART RW34 (E)	3492.6	15.0	3507.6	3657.4	-149.8	NO OBSTRUCTION	NO ACTION
702	PRIVATE ROAD	10/11/2018	DEPART RW34 (E)	3549.2	10.0	3559.2	3714.5	-155.3	NO OBSTRUCTION	NO ACTION
703	PRIVATE ROAD	10/11/2018	DEPART RW34 (E)	3529.8	10.0	3539.8	3714.5	-174.7	NO OBSTRUCTION	NO ACTION
704	LOCAL ROAD	10/11/2018	DEPART RW34 (E)	3528.9	15.0	3543.9	3714.5	-170.6	NO OBSTRUCTION	NO ACTION
705	LOCAL ROAD	10/11/2018	DEPART RW34 (E)	3563.4	15.0	3578.4	3714.5	-136.1	NO OBSTRUCTION	NO ACTION
706	LOCAL ROAD	10/11/2018	DEPART RW34 (E)	3544.3	15.0	3559.3	3714.5	-155.2	NO OBSTRUCTION	NO ACTION

RUNWAY 16 (FUTURE) DEPARTURE SURFACE OBSTRUCTIONS										
OBSTACLE ID	DESCRIPTION	SURVEY DATE	SURFACE	GROUND ELEVATION (FT)	AGL (FT)	TOP HEIGHT (FT)	SURFACE HEIGHT (FT)	PENETRATION (FT)	DISPOSITION	MITIGATION TIMEFRAME
1	TREE	10/11/2018	DEPART RW34 (F)	3470.3	69.9	3540.3	3547.6	-7.4	NO OBSTRUCTION	NO ACTION
11	TREE	10/11/2018	DEPART RW34 (F)	3469.0	60.7	3529.7	3533.1	-3.4	NO OBSTRUCTION	NO ACTION
12	TREE	10/11/2018	DEPART RW34 (F)	3465.8	59.3	3525.1	3532.9	-7.8	NO OBSTRUCTION	NO ACTION
13	TREE	10/11/2018	DEPART RW34 (F)	3465.2	65.2	3530.4	3532.6	-2.3	NO OBSTRUCTION	NO ACTION
17	TREE	10/11/2018	DEPART RW34 (F)	3462.0	48.5	3510.5	3508.2	2.3	TO BE REMOVED	15-20 YEARS
131	TREE	10/11/2018	DEPART RW34 (F)	3519.2	48.5	3567.6	3575.5	-7.9	NO OBSTRUCTION	NO ACTION
134	TREE	10/11/2018	DEPART RW34 (F)	3514.3	69.9	3584.1	3574.7	9.4	TO BE REMOVED	15-20 YEARS
135	TREE	10/11/2018	DEPART RW34 (F)	3510.7	69.0	3579.7	3571.8	7.9	TO BE REMOVED	15-20 YEARS
137	TREE	10/11/2018	DEPART RW34 (F)	3505.1	57.1	3562.2	3570.9	-8.8	NO OBSTRUCTION	NO ACTION
138	TREE	10/11/2018	DEPART RW34 (F)	3506.1	54.9	3561.0	3570.6	-9.5	NO OBSTRUCTION	NO ACTION
142	TREE	10/11/2018	DEPART RW34 (F)	3500.4	61.2	3561.6	3570.7	-9.2	NO OBSTRUCTION	NO ACTION
143	TREE	10/11/2018								