Airport Plans

Introduction

The plan for the future development of King County International Airport/Boeing Field has evolved from an analysis of many considerations. Among these are: aviation demand forecasts and facility requirements; aircraft operational characteristics; environmental considerations; and as characterized in the previously noted statement of goals, the general direction of airport development prescribed by airport management. Forecasts are utilized as a basis for planning; however, facilities are only to be constructed to meet actual demand.

Previous chapters have established and quantified the future development needs of the airport. In this chapter, the various elements of the plan are categorically reviewed and detailed in summary and graphic format. A brief written description of the individual elements, represented in the set of *Airport Plans* for KCIA, is accompanied by a graphic description presented in the form of the *Airport Layout Plan (ALP)*, the *Airport Airspace Drawings*, the *Inner Portion of the Approach Surface Drawings*, the *Terminal Area Plans*, the *Airport Property Map*, and the *Land Use Drawing*.

Airport Layout Plan

The Airport Layout Plan (ALP) is a graphic depiction of existing and ultimate airport facilities that will be required to enable the airport to properly accommodate the forecast future demand. In addition, the ALP also provides detailed information on both airport and runway design criteria, which is necessary to define relationships with applicable standards. The following illustration, entitled *AIRPORT LAYOUT PLAN*, and the following paragraphs describe the major components of the future airport Development Plan.



Figure E1 Airport Layout Plan



Runway System

The airport's runway configuration will remain structured around two runways. The primary runway, Runway 13R/31L, will be retained as at its existing length and width (10,000' x 200'). The major improvement identified on the Airport Layout Plan is to provide the FAA specified Runway Safety Area on the south end of the main runway.

As explained in the previous chapter, in order to meet the safety area criteria and maintain the 10,000 foot takeoff runway length, a system of improvements is recommended. This system of recommendations includes construction of additional runway pavement on the north end of the runway and implementation of declared distances criteria. As a result of these recommendations, the airport is able to retain a 10,000 foot runway length for takeoffs (accelerate stop distance available) in both directions, although the landing length in both directions will be only 9,200 feet.

The secondary runway, Runway 13L/31R, will remain at its existing length (3,710') and width (100'), with its existing displaced approach thresholds (Runway 13L - 250', Runway 31R - 375').

Another important consideration related to runway development at KCIA is the existing and planned instrument approach system.

- Runway 13R and Runway 31L currently have Instrument Landing System (ILS) precision approach capabilities that will be maintained.
- The current ILS capabilities will be supplemented with Transponder Landing System (TLS), Localizer Type Directional Aid (LDA), and Global Positioning System/Flight Management System (GPS/FMS) capabilities, if these newer systems prove to be of benefit in providing improved approach capabilities or in providing improved flight track management.
- Runway 13L/31R will continue to be a visual approach only facility.

Land Acquisition. The only specific land acquisition identified, is the acquisition of Runway Protection Zone Easement in the area where the Runway 31L Runway Protection Zone extends off of airport property. Because the airport is constrained by lack of land, any area within the airport's street-related geographic boundary (East Marginal Way, South Norfolk Street, Airport Way South, South Hardy Street, Albro Place South, and Ellis Avenue) that is available for acquisition should be purchased. These areas of potential land acquisition are indicated on the Airport Layout Plan. **Runway Approach Instrumentation and Lighting.** The existing instrument approach capabilities to Runway 13R/31L are to be maintained with the existing approach lighting system (portions to be placed "in-pavement" with construction on new pavement on north end of runway) serving Runway 13R and ground based NAVAID system. The addition of Precision Approach Path Indicator (PAPI) lights and Runway End Identifier Lights (REILS) serving both ends of Runway 13L/31R is recommended.

Taxiway System

The existing parallel taxiway systems are to be maintained with no major modifications. Improvements related to the provision of additional exit taxiways serving Runway 13R/31L are the only significant taxiway projects illustrated on the ALP. A new angled exit taxiway (north of Taxiway A4) is programmed for the east side of the runway and Taxiway B2 is programmed to be widened and strengthened for use by large aircraft on the west side of the Runway. The need for these exit taxiway improvements is driven by the fact that KCIA is a very busy two runway airport. By providing well located exit taxiways, runway occupancy times for landing aircraft can be minimized and the ability to efficiently accommodate aircraft operations is increased. These exit taxiway improvements are supported by Air Traffic Control Tower personnel.

Landside Development

The ALP also allocates various development areas for landside facilities. Landside facilities include terminal facilities, aircraft parking aprons, hangars, aircraft maintenance facilities, aerospace facilities, automobile access and parking, support facilities, etc. Detailed descriptions of these landside development areas are provided in the *Landside Development Area* section of this chapter.

On-Airport Land Use. In general, on-airport land use patterns at the airport will remain the same as they are presently. The west side of the airport will continue to be dominated by aerospace uses with some general aviation facilities. The northwest corner of airport property will continue to be non-aviation (not requiring taxiway access) facilities. The east side of airport property will continue to be a mix of general aviation facilities, air cargo facilities, and passenger terminal facilities. The smaller general aviation hangars and aprons will be located on the north and south ends of the east side development area, while the larger corporate general aviation facilities, the air cargo facilities and the terminal facilities will be centrally located.

Airspace Plan

The Airport Airspace Drawing is based upon Federal Aviation Regulations (FAR) Part 77, *Objects Affecting Navigable Airspace*. In order to protect the airport's airspace and approaches from hazards that could affect the safe and efficient operation of aircraft, federal criteria contained in the FAR Part 77 document have been established to provide guidance in controlling the height of objects in the vicinity of airports. FAR Part 77 criteria specify a set of imaginary surfaces, which, when penetrated, identify an object as being an obstruction.

The *AIRPORT AIRSPACE DRAWINGS*, which are illustrated in the following figures, provide plan and profile views depicting these criteria as they specifically relate to KCIA. The plan is based on the ultimate planned runway lengths and helipad locations, along with the ultimate planned instrument approach capabilities associated with each runway end or helipad location. For the runway system, it is based on larger-than-utility criteria with precision instrument approaches to Runway 13R/31L and visual approaches with utility criteria for Runway 13R/31L. The helipad approaches are visual.

Figure E2 AIRPORT AIRSPACE DRAWING NORTH APPROACH (CLICK TO VIEW)

Figure E3 AIRPORT AIRSPACE DRAWING SOUTH APPROACH (CLICK TO VIEW)







ONICAL SURFACE SLOPE 20:1

REVISIONS

"RNF" - REMEDY NOT FEASIBLE



Inner Portion of the Approach Surface Drawings

To provide a more detailed view of the inner portions of the Part 77 imaginary approach surfaces and the Runway Protection Zone (RPZ) areas, the following drawings are provided. An RPZ is trapezoidal in shape, centered about the extended runway centerline and typically begins 200 feet beyond the end of the runway. The RPZs are safety areas within which it is desirable to clear all objects (although some uses are normally acceptable). The size of the RPZ is a function of the design aircraft and the visibility minimums associated with the runway's instrument approach capabilities.

The INNER PORTION OF THE APPROACH SURFACE DRAWINGS, which are depicted in the following illustrations, provide large-scale drawings with both plan and profile delineations. They are intended to facilitate identification of the roadways, utility lines, railroads, structures, and other possible obstructions that may lie within the confines of the inner approach surface area associated with each runway end. As with the *AIRPORT AIRSPACE DRAWINGS*, the INNER PORTION OF THE APPROACH SURFACE DRAWINGS are based upon the ultimate planned runway length, along with the ultimate planned approaches to each runway.



Figure E5 Inner Approach Drawing-Runway 13R

	RUNWAY	DATA									
	EXISTING RUN	WAY 13R/31L	EXISTING RUN	WAY 13L/31R							
	EXISTING	FUTURE	EXISTING	FUTURE							
APPROACH VISIBLITY MINIMUMS	1 mile/1-1/4mile	1 mile/1-1/4 mile	Visual/Visual	Visual/Visual							
FAR PART APPROACH 77 SLOPE	50:1/50:1	50:1/50:1	20:1/20:1	20:1/20:1							
RUNWAY WIDTH AND LENGTH	200 X 10,000	200° X 10,000'	100 X 3710	100° × 3710°							
PAVEMENT TYPE	ASPHALT	ASPHALT	ASPHALT	ASPHALT							
PAVEMENT STRENGTH (IN 1000 LBS.)	100a,160D,340DT	100x 1600.34007	35s, 60D	35s, 600							
RUNWAY LIGHTING	HIRL	HIRL	WIRL.	MARL							
RUNWAY MARKING	PRECISION	PRECISION	BASIC	BASIC							
EFFECTIVE RUNWAY GRADIENT %	.038	.038	.001	.001							
MAXINUM GRADE WITHIN RUNWAY LENGTH	.25	.25	.27	.27							
RUNWAY LINE-OF-SIGHT	Criteria met	Criteria met	Criteria met	Criteria met							
# WND COVERAGE (20/16/13/10.5 INDTS)	99.90/99.4/M.97/93.05	91.90/91.4/96.97/91.07	99.90/99.4/96.97/93.05	39.50/924/96.97/23.0							
VISUAL APPROACH AIDS	SALSF, REIL, PAPI	SALSF, REILS, PAPI	VASI	REILS, PAPI							
INSTRUMENT APPROACH AIDS	ILS.LOC/DME	ESLOC/DHE.OPS	NONE	NONE							
AIRPORT REFERENCE CODE	D-V	D-V	B-I (SMALL A/C)	B-I (SMALL A/C)							
CRITICAL AIRCRAFT	B 747-200	8 747-200	BEECH KINGAR 200	BETCH KINGAR 200							
RUNWAY SAFETY AREA	500' X 11,120'	500° X 11,120	120' X 4190'	120' X 4190'							
RUNWAY OBJECT FREE AREA	800' X 10,200'	800° X 10,200°	250 X 4190	250' X 4190'							
OBSTACLE FREE ZONE	No OFZ Panalisticna	No OFZ Penetrations	No OFZ Panalzotions	No OFZ Penetrations							
RUNWAY END COORDINATES	Lot. 4732 25.958 Lot. 1227 15 40,886	Lat. 173233.496 Lan. 12271847.254	Lot. 4732 16.864 Los. 122 18 26.875	Ld. 4732 16.884 Lon. 127 18 26 875							
	Lot. 4731 00.305 Lon. 1221728.466	Lat 1731 00.305 Lan 1221722.446	Let. 473145.090 Let. 1221800.012	Lat. 4731 45.000 Lan. 12718 00.012							
DISPLACED THRESHOLD COORDINATES	-	Lat. 173275.958 Lan. 122°18 42.886	Lot. 4732 14,810 Lot. 122 18 25.135	Lat. 473214810 Lat. 1271825.138							
	lat. 4731 07.157 Lat. 122 "1731.257	Lat. 1731 07.842 Lan. 122 "1734.836	Lot. 4731 48218 Los. 12218 02.656	Lat. 4731 48,218 Lon. 12218 02,656							
RUNWAY ELEVATIONS - PANEMENT END	EL.13.0 /EL.16.96	EL15.0"/EL16.96"	EL 14.0/EL 13.0	EL14.0 /EL.13.0							
- DISPLACED THRESHOLD	- /EL. 17.0*	E. 13.67/EL 17.35	EL 13.0 /EL 13.0	EL 130/EL 130							
- TOUCHDOWN ZONE	EL13.67"/EL17.96"	EL 13.67/EL 17.35	EL. 14.0'/EL. 14.0'	EL MOAL MO							
- HEH PONT	EL. 17.86	EL. 17.35	EL 14.0	EL. 14.0"							
- LOF PONT	EL. 13.0	EL. 13.0'	EL. 13.0	EL. 13.0'							
DECLARED DISTANCES - TORA	10.000'/10.000'	10.000/10.000	3,710 /3,710	3,710 /3,710							
- TODA	10.000 / 10.000	10,000 / 10,000	3 710 /3 710	3,710 /3,710							
- ASDA	10,000'/10,000'	9,120*/10,000*	3,710 /3,710	3,710*/3,710*							
- 104	10,000 /9 200	9 120'/9 120'	3.4701/3.3451	3 470'/3 345'							

NO.	DESCRIPTION	ELEVATION	PENETRATION	SURFACE	DISPOSITION
31	TREE	65.0'	24.5	13R APPROACH	REMEDY NOT FEASIBLE
32	POLE	63.0	21.1	13R APPROACH	REMEDY NOT FEASIBLE
33	TREE	81.0	32.8	13R APPROACH	REMEDY NOT FEASIBLE
34	LIGHT STANDARD	77.0	33.9'	13R APPROACH	REMEDY NOT FEASIBLE
35	TREE	93.0'	46.8'	13R APPROACH	REMEDY NOT FEASIBLE
36	LIGHT STANDARD	99.0	31.0	13R APPROACH	REMEDY NOT FEASIBLE
38	STACK	116.0	46.5	13R APPROACH	REMEDY NOT FEASIBLE
39	TREE	105.0'	19.7	13R APPROACH	REMEDY NOT FEASIBLE
(F)	ROAD	36' est.	6.7	13R APPROACH	REMEDY NOT FEASIBLE
NOT	E: REFER TO AIRPORT A	IRSPACE DRAWI	NGS FOR COM	PLETE LIST OF OB	TRUCTIONS

KingCounty INTERNATIONAL AIRPORT/ Boeing Field Seattle, Washington

FIGURE NUMBER

METRIC SCALE

SORE 1" = 200'

FEBRUARY, 2002

DRAWING NUMBER 5 OF 12





Figure E6 Inner Approach Drawing-Runway 31L

	RUNWAY	DATA		
	EXISTING RUN	WAY 13R/31L	EXISTING RUN	WAY 13L/31R
	EXISTING	FUTURE	EXISTING	FUTURE
APPROACH VISIBLITY MINIMUMS	1 mie/1-1/4mie	1 mile/1-1/4 mile	Visual/Visual	Visual/Visual
FAR PART APPROACH 77 SLOPE	50:1/50:1	50:1/50:1	20:1/20:1	20:1/20:1
RUNWAY WIDTH AND LENGTH	200 X 10,000	200° X 10,000'	100 X 3710	100° × 3710°
PAVEMENT TYPE	ASPHALT	ASPHALT	ASPHALT	ASPHALT
PAVEMENT STRENGTH (IN 1000 LBS.)	100s,1600,340DT	100x 1600.34007	35s. 60D	35s, 600
RUNWAY LIGHTING	HIRL	HIRL	WIRL	MRL
RUNWAY MARKING	PRECISION	PRECISION	BASIC	BASIC
EFFECTIVE RUNWAY GRADIENT %	.038	.038	.001	.001
MAXINUM GRADE WITHIN RUNWAY LENGTH	.25	.25	.27	_27
RUNWAY LINE-OF-SIGHT	Criteria met	Criteria met	Criteria met	Criteria met
% WIND COVERAGE (20/16/13/10.5 INDTS)	99.90/99.4/96.97/93.05	81.80/88.4/96.97/91.05	99.90/99.4/96.97/93.05	99.90/99.4/96.97/91.0
VISUAL APPROACH AIDS	SALSF, REIL, PAPI	SALSF, REILS, PAPI	VASI	REILS, PAPI
INSTRUMENT APPROACH AIDS	ILS.LOC/DME	ESLOC/DHE.OPS	NONE	NONE
ARPORT REFERENCE CODE	D-V	D-V	B-I (SMALL A/C)	B-1 (SMALL A/C)
CRITICAL AIRCRAFT	B 747-200	8 747-200	BEECH KINGAR 200	BETCH KINGAR 201
RUNWAY SAFETY AREA	500 X 11,120	500' X 11,120	120' X 4190'	120' X 4190'
RUNWAY OBJECT FREE AREA	800' X 10,200'	800° X 10,200°	250 X 4190	250' X 4190'
OBSTACLE FREE ZONE	No OFZ Panalisticna	No OFZ Penetrations	No OFZ Panalzotions	No OFZ Penetrations
RUNWAY END COORDINATES	Lot. 4732 25.958 Lot. 122 18 40,895	Lat. 1732'33.496 Lat. 122'19 17254	Lot. 4732 16.864 Lot. 122 18 26.875	Let. 4732'14.864' Len. 122718'26.875'
	Lot. 4731 00.305 Lon. 1271728.466	Lat. 1731 00.305 Lon. 1221728.466	Let. 4731 45.090 Lee. 12218 00.012	Lat. 4731 41.080 Lan. 12718 00.012
DISPLACED THRESHOLD COORDINATES	-	Lat. 173275.958 Lan. 12278 42.586	Lot. 4732 14.810 Lot. 122 18 25.135	Ld. 473214810 Los. 1271825.138
	lat. 4731 07.157 Lat. 122 1731.257	Lat. 1731'07.842" Lan. 122 "17'34.836"	Lot. 473148218 Los. 1221802.656	Lot. 4731 48.218 Los. 12218 02.656
RUNWAY ELEVATIONS - PANEMENT END	EL13.0 /EL16.96	EL 15.0"/EL 16.96"	EL 14.0'/EL 13.0'	EL14.0%EL.13.0
- DISPLACED THRESHOLD	- /EL. 17.0*	E. 13.67/EL 17.35	EL 13.0 /EL 13.0	EL 1307EL 130
- TOUCHDOWN ZONE	EL13.67"/EL17.96"	EL 13.67/EL 17.35	EL. 14.0'/EL. 14.0'	EL MOTEL MO
- HEH PONT	EL. 17.86	EL. 17.35'	EL. 14.0'	EL. 14.0
- LOW POINT	EL. 13.0	EL. 13.0'	EL. 13.0	EL. 13.0'
DECLARED DISTANCES - TORA	10.000'/10.000'	10.000/10.000	3,710 /3,710	3,710 /3,710
- 1004	10.000 / 10.000	10.000 / 10.000	3,710 /3,710	3,710 /3,710
- ASDA	10,000'/10,000'	9,120*/10,000*	3,710 /3,710	3,710*/3,710*
101	10,0001 (0,0001	0 1007/0 1007	1 4701 (1 1461	7 470 /7 745

	DESCRIPTION	ELEVATION	PENETRATION	SURFACE	DISPOSITION				
82	OL ON DWE	38.0'	13.8'	31L APPROACH	REMEDY NOT FEASIBL				
84	BUILDING	49.0	12.2	31L APPROACH	REMEDY NOT FEASIBL				
85	POLE	59.0	15.8'	31L APPROACH	REMEDY NOT FEASIBL				
86	ANTENNA ON SIGN	67.0	38.2	31L APPROACH	REMEDY NOT FEASIBL				
87	TREE	66.0'	41.9'	31L APPROACH	REMEDY NOT FEASIBL				
		_							
NOTE	: Refer to Airport Air	SPACE DRAWI	NGS FOR COM	PLETE LIST OF OB	STRUCTIONS				
~									
			NOTE	S					
<u> </u>									
	This drawing reflects planning at	maarte oppilaaten	to KCN/Booing f	test to the gradest exte	rt possible.				
	This drawing reflects planning at This drawing should not be used W accordinate data is NACES.	ndords applicable as a standard f	to KCW/Boeing f or planning or dee	ies to the gradiest esti ign.	rt possible.				
2.7	This desning reflects planning at this drawing should not be used w accordinate data in NACB3.	ndorta applicable as a standard f	to KCW/Booing f or planning or dea	iels to the gradiest exis lign.	rt possible.				
1 1	This drawing reflects planning at This drawing should not be used W accordinate data is NACE3.	mdorita applicable as a standard f	to KCW/dooing f or planning or dep	ield to the gradiest exte lign.	nt possible.				
2.7	This drawing retects passing at This drawing should not be used W coordinate data is NACB3.	ndarta applicatio es o standard S	to KCW/deeing f or planning or dee	Tels to the gradeat exis	rt possible.				
	This descring retrects planning at This drawing whold net be used W econstinute data in NATB3.	ndorde applicable as a standard S	to KCW/doeing f or planning or dee	Teld to the gradient exis lign.	rt pouelis.				
	KING COUNTY	er a standard 5	to KCRV/Basing r	tes to the gradeat esta					
	na sentra offica postal postal of the around shall not be used a contrast data to horizat		to KCK/Beeing F or planning or dee NATION/ SEATTLE, WASH	Test to the gradeat esta					
	In and the stand of the second		to fictiv/seeing of er planning of dee NATION/ SEATTLE, WASH	AL AIRPOR					
	In control of the second provide an In control of the second of the second is control of the second of the second is control of the second of the second KING COUNTY BOEING FIE INFED ADD		VATION/	AL AIRPOR					
	In a servicy related possible of the dentity should not be used with control of the service with control of the service with control of the service of the service service of the service of the service of the service of the service service of the service of the service service of the service of the service of the service of the service of the service of the service service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the		VATION/	AL AIRPOR					

KingCounty INTERNATIONAL AIRPORT/ Boeing Field

Seattle, Washington

DRAMING NUMBER



Figure E7 Inner Approach Drawing-Runway 13L/31R

RUNWAY DATA									
	EXISTING RUN	WWAY 13R/31L	EXISTING RUN	WAY 13L/31R					
	EXISTING	FUTURE	EXISTING	FUTURE					
APPROACH VISIBUTY MINIMUMS	1 mie/1-1/4mie	1 mie/1-1/4 mie	Visual/Visual	Visual/Visual					
FAR PART APPROACH 77 SLOPE	50:1/50:1	50:1/50:1	20:1/20:1	20:1/20:1					
RUNWAY WIDTH AND LENGTH	200' X 10,000'	200° X 10,000'	100° X 3710°	100° X 3710°					
PAVEMENT TYPE	ASPHALT	ASPHALT	ASPHALT	ASPHALT					
PAVEMENT STRENGTH (IN 1000 LBS.)	100a,1600,340DT	100x 1000 34001	35s. 600	35s, 600					
RUNWAY LIGHTING	HIRL	HIRL	MIRL.	MRL					
RUNWAY MARKING	PRECISION	PRECISION	BASIC	BASIC					
EFFECTIVE RUNWAY GRADIENT Z	.038	.038	.001	.001					
MAXINUM GRADE WITHIN RUNWAY LENGTH	.25	.25	.27	-27					
RUNWAY LINE-OF-SIGHT	Criteria met	Criteria met	Criteria met	Criteria met					
% WIND COVERAGE (20/16/13/10.5 INDTS)	99.90/99.4/M.97/93.05	81.80/88.4/96.97/91.05	99.90/99.4/96.97/93.05	39.50/924/96.97/23.05					
VISUAL APPROACH AIDS	SALSF, REIL, PAPI	SALSF, REILS, PAPI	VASI	REILS, PAPI					
INSTRUMENT APPROACH AIDS	ILS.LOC/DME	ESLOC/DHE.OPS	NONE	NONE					
ARPORT REFERENCE CODE	D-V	D-V	B-I (SMALL A/C)	B-I (SMALL A/C)					
CRITICAL AIRCRAFT	B 747-200	B 747-200	BEECH KINGAR 200	BETCH KINGAR 200					
RUNWAY SAFETY AREA	500' X 11,120'	500° X 11,120	120' X 4190'	120' X 4190'					
RUNWAY OBJECT FREE AREA	800' X 10,200'	800° X 10,200°	250' X 4190'	250' X 4190'					
OBSTACLE FREE ZONE	No OFZ Penetrations	No OFZ Penetrations	No OFZ Panabrotions	No OFZ Panatrations					
RUNWAY END COORDINATES	Lot. 1732 25,958 Lon. 127 18 40,895	Lot. 1732'33.496 Lon. 122'19'17:254	Lot. 4732 16.864 Los. 122 18 26.875	Ld. 4732'16,884 Lon. 12718'36,875					
	Lat. 4731 00.305 Lon. 1221728.466	Lat. 1731 00.305 Lan. 122 17 28.466	Lot. 473145.090 Los. 1221800.012	Lat. 4731 45.000 Lat. 12718 20.012					
DISPLACED THRESHOLD COORDINATES		Lat. 173275.958 Lan. 122718 42586	Lot. 4732 14.810 Lot. 12718 25.135	Let. 473214.810 Lon. 1271825.138					
	lat. 4731 07.157 Lat. 122 1731.257	Lat. 173107.842 Lan. 122 1734.838	Lot. 473148218 Los. 1221802.656	Lat. 4731 48,218 Lat. 12218 02,656					
RUNWAY ELEVATIONS - PAVEMENT END	EL.13.0 /EL.16.96	EL15.0 /EL16.96	EL 14.0/EL 13.0	EL14.0'/EL.13.0					
- DISPLACED THRESHOLD	- /EL. 17.0*	E. 13.67/EL 17.35	EL 13.0 /EL 13.0	EL 130/EL 130					
- TOUCHDOWN ZONE	EL13.67"/EL17.96"	EL 13.67/EL 17.35	EL 14.0'/EL 14.0'	EL MO/EL MO					
- HEN PONT	EL. 17.86	EL. 17.35	EL 14.0'	EL. 14.0"					
- LOW POINT	EL. 13.0	EL. 13.0"	EL. 13.0	EL. 13.0'					
DECLARED DISTANCES - TORA	10.000'/10.000'	10.000/10.000	3,710 /3,710	3,710 /3,710					
- TODA	10.000 / 10.000	10.000 / 10.000	3 710 /3 710	3,710 /3,710					
- ASDA	10,000'/10,000'	9,120/10,000	3,710 /3,710	3,710*/3,710*					
- 104	10,000"/9,200"	0 120*/0 120*	3 470 /3 346	3 470'/3 345'					

					/	
			/			
		\mathbf{F}				
		-				
-						
					-	
20	00'	2200*	24	100'	26	00,

	\square	FAR PART 7	7 INNE	R APPRO	DACH OBSTR	RUCTIONS)
	NO.	DESCRIPTION	ELEVATION	PENETRATION	SURFACE	DISPOSITION	
	(8) ROC	ON AL TRANSMISSOMETER	28.0	15.0	13L APPROACH	REMEDY NOT FEASIBLE	
CONTRUCTED.	(9) OL	on anemoneter	36.0	8.5	13L APPROACH	REMEDY NOT FEASIBLE	
	(10) OL	on quide slope	40.0	10.0	13L APPROACH	REMEDY NOT FEASIBLE	
							_
							_
							_
							_
							_
							_
							_
	NOTE		ACC. 00494	25,500,004		TUOTIONS	_
	NOIE: RE	PER TO ARPORT AIRSP	ACE DRAWI	ACS FOR COM	MLETE LIST OF UBS	RUCTIONS	
							_
							-
)	(NOTES	3)
1	6			NOTE	5		1
							=
S FUTURE	1. This de	swing reflects planning stand- rating should not be used as	arte applicable a standard fo	to KCW/Seeing fi r signaling or des	leid to the gradiest exten ion.	possible.)
	2. Al 000	rdinate data in NAC63.					
20120120728							
] <==]							_
	🖉 KIN	IG COUNTY I	NTERM	JATIONA	AL AIRPORT	DIVISE NUMB	
3	1			TATE CHARLE			_

Ш	пем	EXISTING	FUTURE	Ш	(The densing reflects plotting standards applicable to KCW/Steeling Field to the gradient extent possible.
Ш	BUILDING RESTRICTION LINE	<u>8R1</u>	<u> </u>	Ш		2. All ocontinute data la NACB3.
Ш	ARPORT PROPERTY LINE	R		Ш		
Ш	FENCE	*		Ш		
Ш	AVIGATION EASEMENT		UTUTUTA	Ш	/	
Ш	RUNWAY PROTECTION ZONE		EEE]	Щ	~	
Ш	BUILDINGS			10	1	\
Ш	AIRFIELD PAVENENT		1222	Ш	1	
Ш	FUEL STORAGE	Ð	£	Ш	f(
Ш	BEACON	*		Ш	∕	BOEING FIELD SEATTLE, WASHINGTON
Ш	LIGHTED WIND CONE & SEGMENTED CIRCLE	đ		Ш	- 2	METRIC SCALE }
Ш	PRECISION APPROACH PATH INDICATOR(PAPI)			Ш		
Ш	RUNWAY END IDENTIFIER LIGHTS(RELS)		٥	Ш	" H	
Ш	TAXIWAY HOLDLINES AND SIGNS	- H- I-		Ш		RUNWAY 13L/31R
Ш	UNUSABLE PAVENENT			Ш	2	
Ш				Ш	ſ	
Ш				Ш	ſ	Solution Service Servi
Ш				Ш	1	Tulsa, Oklahoma
11			/	Ш	1	7 OF 12
π		•		八	~	

KingCounty INTERNATIONAL AIRPORT/ Boeing Field Seattle, Washington

Landside Development Area Plan

The following illustrations, entitled *TERMINAL AREA PLANS*, present a detailed view of the more intensely developed landside use areas on the airport.

Terminal Area Plan North Area

The *TERMINAL PLAN NORTH AREA*, presents a detailed view of the northern onehalf of airport property. On the west side of the runway system, the Boeing Lease area is the dominant land use. As described in the previous chapter, the northwest corner will continue to be utilized by those facilities that do not require taxiway access. Taxiway access to the northwest area is not possible due to flight safety considerations associated with the inner approach area of Runway 13R.

On the east side of the runway system the *TERMINAL PLAN NORTH AREA* illustrates the general aviation, terminal, and cargo development proposed on the northern portion of airport property.

Terminal Plan South Area

The *TERMINAL PLAN SOUTH AREA*, presents a detailed view of the southern portion of airport property. On the west side of the runway system, air traffic control tower/ARFF facilities are located toward the north end of the drawing, with general aviation development located further south.

On the east side the plan provides a graphic description of the general aviation and air cargo facilities programmed for the southern end of airport property.

Airport Property Map

The *AIRPORT PROPERTY MAP*, which is presented in the following illustration, indicates how various tracts of land within the airport boundaries were acquired (e.g., Federal funds, surplus property, local funds, etc.). The purpose of the Airport Property Map is to provide information for analyzing the current and future aeronautical use of land acquired with Federal funds.

Land Use Drawing

The *LAND USE DRAWING*, presented in the following figure, depicts existing and recommended use of all land within the ultimate airport property line and in the vicinity of the airport (including the area contained in the future 65 DNL noise contour). The purpose of the Land Use Drawing is to provide airport management a plan for leasing revenue-producing areas on the airport. This map can also provide guidance to local authorities for establishing appropriate land use zoning in the vicinity of the airport.



Figure E8 Terminal Area Plan-North





Figure E9 Terminal Area Plan-South

(A) \square 0 EN I Ĩ Ť RUNWAY 13R/31L WISI RUNWAY 13L/31 APRON 7 FUTURE HANGA REVISIONS LAYOUT PLAN LEGEND NOTES ITEM BUILDING RESTRICTION LINE AIRPORT PROPERTY UNE FENCE AWGATION EASEMENT RUMMAY PROTECTION ZONE BUILDINGS AIRFELD PAVEMENT FUEL STORAGE REACON EXISTING FUTURE This drawing alreads not be used as a standard for planning of design.
 All coordinate data is NA083. <u>____</u>___ × KING COUNTY INTERNATIONAL AIRPORT FIGURE NUMBER 3 O FUEL STORAGE BERCON LIGHTED NND CONE & SEGMENTED CIRCLE PRECISION APPROADH PATH INDICATOR(PAP) RUINNAY TO DORTHIFER LIGHTS(RELIS) TAXIMAY HOLDLINES AND SIGNS UNUSABLE PAVEMENT METRIC SCALE **TERMINAL AREA PLAN** 1* = 200' SEPTEMBER, 2001 Barnard Dunkelberg & Company 9 OF 12







Figure E10 Alrport Property Map

ITEM	PARCEL TAX #	INTEREST	PURPOSE	ACRES	DATE
PARCEL 1	282404-9007 SEC. 28 T24 R4E	FEE SIMPLE	AIRPORT	614.53	1928
U.S. GOV'T TRANSFER (1)	282404-9007 SEC. 28 T24 R4E	FEE SIMPLE	AIRPORT	17.2	1948
FAAP 05	282404-9007 SEC. 28 T24 R4E	FEE SIMPLE	AIRPORT	70	1951
FAAP 11	282404-9007 SEC. 28 T24 R4E	FEE SIMPLE	AIRPORT	4.5	1958
FAAP 12	282404-9007 SEC. 28 T24 R4E	FEE SIMPLE	AIRPORT	13.2	1960
FAAP 14	282404-9007 SEC. 28 T24 R4E	FEE SIMPLE	AIRPORT	11.4	1957-1962
FAAP 14A	000160-0049	FEE SIMPLE	AIRPORT	0.92 •	UNKNOWN
FAAP 14B	332404-9011	FEE SIMPLE	AIRPORT	0.05 *	UNKNOWN
FAAP 14F	282404-9007 SEC. 28 T24 R4E	FEE SIMPLE	AIRPORT	10.22 *	1957-1962
FAAP 14G	282404-9007 SEC. 28 T24 R4E	FEE SIMPLE	AIRPORT	0.12 *	1957-1962
FAAP 18	282404-9007 SEC. 28 T24 R4E	FEE SIMPLE	AIRPORT	0.9	1967
ADAP 04	282404-9007 SEC. 28 T24 R4E	FEE SIMPLE	AIRPORT	0.1	1976
ADAP 07	542260-0124	FEE SIMPLE	AIRPORT	5.6	1977-1979
AIP 02	542260-0124	FEE SIMPLE	AIRPORT	5.7	1957-1962 1977-197
AIP 02A	000160-0049	FEE SIMPLE	AIRPORT	0.24 •	UNKNOWN
AIP 02B	332404-9011	FEE SIMPLE	AIRPORT	0.01 *	UNKNOWN
AIP 02C	000740-0032	FEE SIMPLE	AIRPORT	3.42 *	UNKNOWN
AIP 020	542260-0160	FEE SIMPLE	AIRPORT	0.18 *	UNKNOWN
AIP 08	542260-0124	FEE SIMPLE	AIRPORT	1.5	1986
AIP 12, 14, 15, 16	282404-9007 SEC. 28 T24 R4E	FEE SIMPLE	AIRPORT	10.04	1990
AIP 13	282404-9007 SEC. 28 T24 R4E	FEE SIMPLE	AIRPORT	0.09	1990
U.S. GOV'T TRANSFER (2)	UNKNOWN	FEE SIMPLE	AIRPORT	2.75 •	UNKNOWN
ESTIMATED (CALCULATIONS	BASED ON DIGITAL AIRPORT LAYOUT PLAN)				
			NOTES		

)	(LAYOUT PLAN LEGEND				NOTES)
١	6	ПЕМ	EXISTING	FUTURE	1	This drawing reflects planning standards applicable to KCA/Booing Field to the greatest extent pussible. This drawing should not be used as a standard for planning or design.	À
11		BUILDING RESTRICTION LINE	<u>BRL</u>	<u>EPG</u>		2. All coordinate data is NAO83.	
11		AIRPORT PROPERTY LINE	_ 1	_ 12 _			1
11		FENCE	<u> </u>				1
11		AVIGATION EASEMENT		21/11/11/12/22			Į.,
11		RUNWAY PROTECTION ZONE]	Ľ		_
11		BUILDINGS		2000000			٦
11		AIRFIELD PAVEMENT					.
11		FUEL STORAGE	Ð	Ē	II €		1
-11		BEACON	*			BOEING FIELD SEATTLE, WASHINGTON	
11		LIGHTED WIND CONE & SEGMENTED CIRCLE	Ő			METRIC SOLE	1
11		PRECISION APPROACH PATH INDICATOR(PAPI)					41
11		RUNWAY END IDENTIFIER LIGHTS(RELS)		0	II €	AIRPORT PROPERTY MAP	.
11		TAXIWAY HOLDLINES AND SIGNS			// //		,
11		PARCEL LINES					
11							a l
-11					17	Barnard Dunkelberg & Company	41
-11					11	Tulas Oklababas	.
Л	18					Tuisa, Ukialioliid	1
"	U		1		11		
	-						-







Figure E11 Land Use Drawing

