LEGEND

EXISTING	ULTIMATE	DESCRIPTION
		AIRPORT PROPERTY LINE
32 33 / 5 4		SECTION CORNERS
		AIRPORT REFERENCE POINT (ARP)
		AIRPORT ROTATING BEACON
		AVIGATION EASEMENT
		AWOS
BRL 35'		BUILDING RESTRICTION LINE
		STRUCTURES ON AIRPORT
N/A		ABANDON/REMOVE
		STRUCTURE OFF AIRPORT
		FENCING
		AIRPORT PAVEMENT
N/A		GLIDESLOPE ANTENNA & EQUIP. SHELTER
		HELICOPTER PARKING
		HOLD MARKING
		LIGHTED WINDSOCK
		LOCALIZER
OFA	OFA(U)	OBJECT FREE AREA
RSA	RSA(U)	RUNWAY SAFETY AREA
OFZ	OFZ(U)	OBSTACLE FREE ZONE
N/A		PRECISION OBSTACLE FREE ZONE
RPZ	RPZ(U)	RUNWAY PROTECTION ZONE
		PAPI-4
		RUNWAY END IDENTIFIER LIGHTS (REILS)
		RUNWAY EDGE LIGHTING
IFP		SURVEY MONUMENT WITH IDENTIFIER
700	700	TOPOGRAPHY
		ULTIMATE MALSR

DEVIATIONS TO DESIGN STANDARD TABLE

STANDARD	DESCRIPTION OF MODIFICATION	ACTION
OFA CLEAR OF ABOVE GROUND OBJECTS PROTRUDING ABOVE THE RUNWAY SAFETY AREA EDGE ELEVATION	SERVICE ACCESS ROAD AND FENCE PENETRATE OBJECT FREE AREA AT RUNWAY 16 END	TO REMAIN

SURVEY CONTROL STATIONS

ID	PERMANENT IDENTIFIER	LATITUDE	LONGITUDE
IFP A	AC6796	35° 08' 51.2456" N	114° 33' 28.0413" W
IFP B	AC6795	35° 09' 43.4799" N	114° 33' 32.0758" W
IFP C	AC6794	35° 10' 01.6050" N	114° 33' 34.4039" W

IFP A: SET INTO TOP OF METAL PIPE DRIVEN INTO GROUND;
IFP B: SET INTO TOP OF METAL PIPE DRIVEN INTO GROUND;
IFP C: STAINLESS STEEL ROD W/O SLEEVE (10 FT +).

FOR APPROVAL BY
Mohave County Airport Authority

David C. Gaines 5/21/10
David C. Gaines, Airport Director — DATE

ALL WEATHER WIND COVERAGE

Runway	10.5 Knots	13 Knots	16 Knots	20 Knots
Runway 16-34	95.04%	97.87%	99.19%	99.71%

RUNWAY DATA

RUNWAY DATA	RUNWAY 16-34 EXISTING 16	RUNWAY 16-34 EXISTING 34	RUNWAY 16-34 ULTIMATE 16L	RUNWAY 16-34 ULTIMATE 34R	RUNWAY 16R-34L ULTIMATE 16R	RUNWAY 16R-34L ULTIMATE 34L
AIRCRAFT APPROACH CATEGORY-DESIGN GROUP	C-III		D-IV		B-II	
14 CFR PART 77 CATEGORY	Nonprecision	Nonprecision	Nonprecision	Precision	Visual	Visual
APPROACH VISIBILITY MINIMUMS	1 Mile	1 Mile	1 Mile	1/2 Mile	Visual	Visual
DESIGN CRITICAL AIRCRAFT	Boeing 737		Boeing 757/G 450		Cessna Citation III	
WINGSPAN OF DESIGN AIRCRAFT	112.58'		124.83'/77.83'		53.5'	
UNDERCARRIAGE WIDTH OF DESIGN AIRCRAFT	18.75'		24'		9.04'	
APPROACH SPEED (KNOTS) OF DESIGN AIRCRAFT	141		143		114	
MAXIMUM CERTIFIED TAKEOFF WEIGHT (LBS) OF DESIGN AIRCRAFT	174,200		272,000		22,000	
RUNWAY EFFECTIVE GRADIENT	1.0%		1.0%		1.1%	
RUNWAY MAXIMUM GRADIENT	1.0%		1.0%		1.1%	
PAVEMENT DESIGN STRENGTH (in thousand lbs.) 1	75(S), 200(D), 400(DTW)		75(S), 200(D), 400(DTW)		12.5(S)	
APPROACH SLOPE	34:1	34:1	34:1	50:1/40:1	20:1	20:1
RUNWAY END ELEVATION (MSL)	625.4'	694.8'	625.4'	698.0'	642.0'	693.0'
RUNWAY TOUCHDOWN ZONE ELEVATION (MSL)	642.5'	698.8'	642.5'	707.0'	677.8'	693.0'
RUNWAY HIGH POINT ELEVATION (MSL)	698.8'		707.0'		6930'	
RUNWAY LOW POINT ELEVATION (MSL)	625.4'		625.4'		642.0'	
LINE OF SIGHT REQUIREMENT MET	YES		YES		YES	
RUNWAY LENGTH	7500'		8500'		4600'	
RUNWAY WIDTH	150'		150'		75'	
RUNWAY BEARING (TRUE)	176.46°	356.46°	176.46°	356.46°	176.92°	356.92°
RUNWAY SAFETY AREA LENGTH BEYOND STOP END OF RUNWAY	1000'	1000'	1000'	1000'	300'	300'
RUNWAY SAFETY AREA WIDTH	500'		500'		150'	
RUNWAY OBJECT FREE AREA LENGTH BEYOND STOP END OF RUNWAY	878'	1000'	878'	1000'	300'	300'
RUNWAY OBJECT FREE AREA WIDTH	800'		800'		500'	
RUNWAY OBSTACLE FREE ZONE LENGTH BEYOND RUNWAY END	200'	200'	200'	200'	200'	200'
RUNWAY OBSTACLE FREE ZONE WIDTH	400'		400'		250'	
DISTANCE FROM RUNWAY CENTERLINE TO HOLD BARS AND SIGNS	250'		256.9'		125'	
RUNWAY MARKING	NP	P	NP	P	V	V
STANDARD SEPARATION - RUNWAY CL TO PARALLEL TAXIWAY CL	400'		400'		240'	
STANDARD SEPARATION - TAXIWAY CL TO FIXED OR MOVABLE OBJECT	93'		129.5'		65.5'	
RUNWAY THRESHOLD DISPLACEMENT	0'	500'	0'	0'	0'	0'
RUNWAY SURFACE/PAVEMENT MATERIAL	Asphalt		Asphalt		Asphalt	
RUNWAY PAVEMENT SURFACE TREATMENT	None		None		None	
RUNWAY LIGHTING	MIRL		HIRL		MIRL	
TAXIWAY WIDTH	75' (50' Standard)		75' (50' Standard)		35'	
TAXIWAY SURFACE MATERIAL	Asphalt		Asphalt		Asphalt	
TAXIWAY OBJECT FREE AREA WIDTH	186'		259'		131'	
TAXIWAY SAFETY AREA WIDTH	118'		171'		79'	
TAXIWAY WINGTIP CLEARANCE	34'		44'		26'	
TAXIWAY MARKING	Enhanced		Enhanced		Enhanced	
TAXIWAY LIGHTING	MITL		MITL		MITL	
RUNWAY NAVIGATION AIDS	RNAV GPS (34) VOR (34)		LPV GPS (34R) ILS (34R)		None	
RUNWAY VISUAL AIDS	Rotating Beacon PAPI-4 (16,34) REIL (16,34)		Rotating Beacon MALSR (34R) PAPI-4 (16L,34R) REIL (16L,34R)		Rotating Beacon PAPI-2 (16R,34L) Lighted Wind Indicator REILS	

EXISTING BUILDING TABLE

EXIST	DESCRIPTION	TOP ELEV
1	ARFF/AIRPORT MAINTENANCE	654.5
2	TICKETING/SECURE SCREENING/RENTAL CARS/AIRPORT ADMINISTRATION	655.3
3	RENTAL CAR MAINTENANCE	670.5
4	DEPARTURE HOLDROOM/ LONG-TERM GENERAL AVIATION TERMINAL	655.0
5	CHARTER BUS LOADING	648.4
6	OFFICE BUILDING	647.0
7	OFFICE BUILDING	655.0
8	FEDEX	648.0
9	AIR TRAFFIC CONTROL TOWER	793.8
10	CONVENTIONAL HANGAR	663.5
11	CONVENTIONAL HANGAR	665.8
12	FBO	658.0
13	FUEL FARM	680.0
14	T-HANGAR	643.5
15	T-HANGAR	644.7
16	T-HANGAR	644.3
17	T-HANGAR	643.5
18	T-HANGAR	644.3
19	T-HANGAR	645.8
20	T-HANGAR	647.4
21	T-HANGAR	646.7
22	T-HANGAR	645.8
23	T-HANGAR	646.6
24	T-HANGAR	646.5
25	T-HANGAR	649.4
26	T-HANGAR	647.3
27	T-HANGAR	647.8
28	T-HANGAR	649.6
29	CONVENTIONAL HANGAR	674.8
30	CONVENTIONAL HANGAR	671.9
31	OFFICE BUILDING	662.4
32	T-HANGAR	650.7
33	CONVENTIONAL HANGAR	666.6
34	CONVENTIONAL HANGAR	652.5
35	T-HANGAR	653.1
36	CONVENTIONAL HANGAR	667.4
37	CONVENTIONAL HANGAR	672.6
38	CONVENTIONAL HANGAR	681.7
39	CONVENTIONAL HANGAR	683.3
40	CONVENTIONAL HANGAR	679.8
41	GENERAL AVIATION TERMINAL	679.8
42	AWOS	720.0

GENERAL NOTES:

1. HORIZONTAL DATUM: NORTH AMERICAN DATUM 1983 - NAD83;
   VERTICAL DATUM: NORTH AMERICAN DATUM 1988 - NAVD88. DERIVED FROM SURVEY OF AIRPORT ENVIRONS PERFORMED BY KENNEY AERIAL MAPPING, INC., PHOENIX, ARIZONA; PROVIDED BY STANTEC CONSULTING, INC., PHOENIX, ARIZONA
2. EXISTING RUNWAY END COORDINATES, BEARINGS AND ELEVATIONS PROVIDED BY STANTEC CONSULTING DERIVED FROM A FIELD SURVEY DATED MAY 2008, PERFORMED BY STANTEC CONSULTING & GRW IN ACCORDANCE WITH FAA 405 SPECIFICATIONS
3. ULTIMATE RUNWAY 34R END COORDINATES, BEARINGS AND ELEVATIONS PROVIDED BY STANTEC CONSULTING DERIVED FROM A FIELD SURVEY DATED MAY 2008, PERFORMED BY STANTEC CONSULTING & GRW IN ACCORDANCE WITH FAA 405 SPECIFICATIONS. ULTIMATE RUNWAY 34 END CALCULATIONS PROCESSED USING COMPSYS21, VERSION 2.9/03, PROVIDED BY THE US DOT/FAA AVIATION SYSTEM STANDARDS.

AIRPORT DATA

OWNER: Mohave County Airport Authority		AIRPORT NPIAS CODE: P	
CITY: Bullhead City, Arizona		COUNTY: Mohave, Arizona	
RANGE: R 21 W		TOWNSHIP: T 32 S	
LAUGHLIN/BULLHEAD INTERNATIONAL (KIFP)		**EXISTING**	**ULTIMATE**
AIRPORT SERVICE LEVEL		Commercial (P)	Commercial (P)
AIRPORT REFERENCE CODE		C-III	D-IV
AIRPORT ELEVATION		696.9' MSL	707.0' MSL
MEAN MAXIMUM TEMPERATURE OF HOTTEST MONTH		108.2° July	108.2° July
AIRPORT REFERENCE POINT (NAD 83)	Latitude	35° 09' 21.547" N	35° 09' 09.709" N
	Longitude	114° 33' 33.965" W	114° 33' 36.030" W
AIRPORT INSTRUMENT APPROACH		GPS, VOR	GPS, ILS, VOR
NAVAIDS		Airport Beacon ATCT PAPI-4 (16,34) REIL (16, 34) AWOS III	Airport Beacon, ATCT GPS (16L, 34R) ILS (34R) MALSR (34R) PAPI-4 (16L, 34R) PAPI-2 (16R, 34L) REIL (ALL RW ENDS) AWOS III
GPS AT AIRPORT		Yes	Yes

PROPOSED BUILDING TABLE

ULT	DESCRIPTION	TOP ELEV*
101	AIR CARGO/AIR FREIGHT BUILDING	670.0
102	CONVENTIONAL HANGAR	667.0
103	CONVENTIONAL HANGAR	667.0
104	CONVENTIONAL HANGAR	667.0-687.0
105	AIRCRAFT WASH RACK	660.0
106	T-HANGARS	662.0
107	T-HANGARS	667.0
108	ARFF	726.0
109	AIR CARGO/AIR FREIGHT	740.0
110	COMMERCIAL TERMINAL	724.0
111	AWOS	700.0

* ULTIMATE BUILDING ELEVATIONS ARE ESTIMATED AND CONTINGENT UPON FINAL GRADING AND DRAINAGE PLAN.

RUNWAY END COORDINATES (NAD 83)

RUNWAY	LATITUDE	LONGITUDE
EXISTING RUNWAY 16	35° 09' 58.5648" N	114° 33' 36.7544" W
EXISTING RUNWAY 34	35° 08' 44.5300" N	114° 33' 31.1760" W
ULTIMATE RUNWAY 16L	35° 09' 58.5648" N	114° 33' 36.7544" W
ULTIMATE RUNWAY 34R	35° 08 34.6563" N	114° 33' 30.4321" W
ULTIMATE RUNWAY 16R	35° 09' 19.6630" N	114° 33' 42.2460" W
ULTIMATE RUNWAY 34L	35° 08' 34.2540" N	114° 33' 38.8180" W

GENERAL NOTES CONTINUED:

4. EXISTING ARP COORDINATES FROM EXISTING DATA PROVIDED BY STANTEC CONSULTING DERIVED FROM A FIELD SURVEY DATED MAY 2008, PERFORMED BY STANTEC CONSULTING & GRW IN ACCORDANCE WITH FAA 405 SPECIFICATIONS. ULT ARP CALCULATED USING ABOVE MENTIONED DATA SUPPLIED BY STANTEC.
5. ULTIMATE RUNWAY 16R-34L END COORDINATES, BEARINGS AND ELEVATIONS DERIVED FROM SURVEY OF AIRPORT ENVIRONS PERFORMED BY KENNEY AERIAL MAPPING, INC., PHOENIX, ARIZONA; PROVIDED BY STANTEC CONSULTING, INC., PHOENIX ARIZONA
6. NO OFZ PENETRATIONS
7. SEE SHEETS 8 THROUGH 11 FOR THRESHOLD SITING SURFACE OBJECT PENETRATION DETAILS.
8. THE PROPOSED SITE FOR THE FUTURE AIRCRAFT RESCUE FIRE FIGHTING (ARFF) STATION WILL MEET THE REQUIRED EMERGENCY RESPONSE TIME FOR CERTIFICATED FEDERAL AVIATION REGULATION PART 139 COMMERCIAL SERVICE OPERATIONS.
9. ALL ELEVATIONS IN NAVD 88.
10. TAXIWAY A5 MAY BE CLOSED WHEN ADJACENT HIGH SPEED EXIT TAXIWAYS ARE CONSTRUCTED.

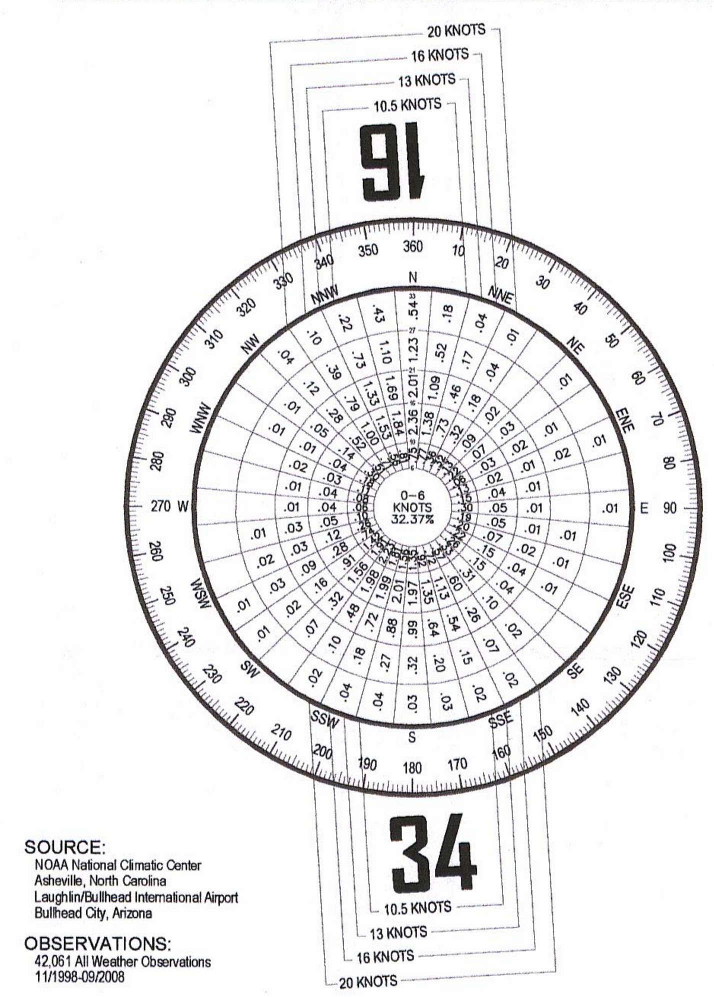
FAA APPROVAL STAMP

Approved conditionally MAY 26 2010
Subject to comments contained in our letter dated: MAY 26 2010
FEDERAL AVIATION ADMINISTRATION
Western-Pacific Region
By [signature]
Act. Manager - LAX/ADO

MAGNETIC NORTH
NORTH

Magnetic Declination
11° 35' East (March 2009)
Annual Rate of Change
0° 6' West (March 2009)

0 500 1000
SCALE IN FEET



SOURCE:
NOAA National Climatic Center
Asheville, North Carolina
Laughlin/Bullhead International Airport
Bullhead City, Arizona

OBSERVATIONS:
42,061 All Weather Observations
11/1998-09/2008

No.	REVISIONS	DATE	BY	APP'D.
4	ADDED LAND ACQUISITION, NEW TERMINAL AND AIR CARGO; UPDATED COORDINATES AND ELEVATIONS	04/28/00	CH	JH
3	UPDATED AIRPORT MASTER PLAN	04/28/00	MR	SGB
2	ADDED INTERIM WEST APRON	05/02/93	JMH	DT
1	ADDED PARALLEL TAXIWAY	09/15/88	JMH	DT

"THE PREPARATION OF THESE DOCUMENTS WAS FINANCED IN PART THROUGH A PLANNING GRANT FROM THE FEDERAL AVIATION ADMINISTRATION AS PROVIDED UNDER SECTION 505 OF THE AIRPORT AND AIRWAY IMPROVEMENT ACT OF 1982, AS AMENDED. THE CONTENTS DO NOT NECESSARILY REFLECT THE OFFICIAL VIEWS OR POLICY OF THE FAA. ACCEPTANCE OF THESE DOCUMENTS BY THE FAA DOES NOT IN ANY WAY CONSTITUTE A COMMITMENT ON THE PART OF THE UNITED STATES TO PARTICIPATE IN ANY DEVELOPMENT DEPICTED HEREIN NOR DOES IT INDICATE THAT THE PROPOSED DEVELOPMENT IS ENVIRONMENTALLY ACCEPTABLE IN ACCORDANCE WITH APPROPRIATE PUBLIC LAWS."

LAUGHLIN/BULLHEAD INTERNATIONAL AIRPORT

AIRPORT LAYOUT DRAWING

BULLHEAD CITY, ARIZONA

PLANNED BY: Chris M. Hugunin
DETAILED BY: Diana L. Hopkins
APPROVED BY: James M. Harris

May 17, 2010

Coffman Associates
Airport Consultants
www.coffmanassociates.com

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