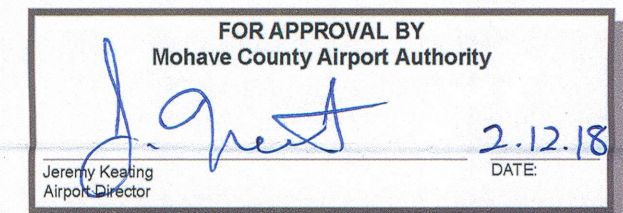
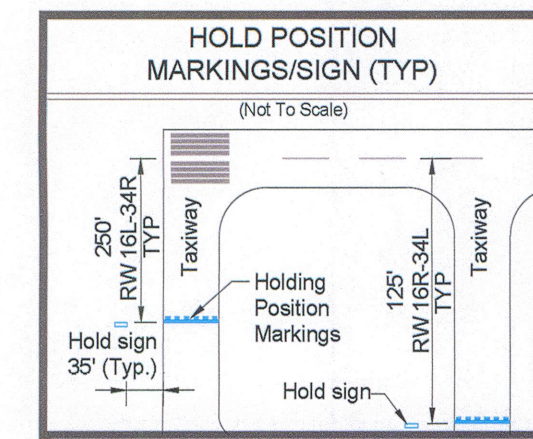


DEVIATIONS TO DESIGN STANDARD TABLE		
STANDARD	DESCRIPTION OF MODIFICATION	ACTION
OFA CLEAR OF ABOVE GROUND OBJECTS PROTRUDING ABOVE THE RUNWAY SAFETY AREA EDGE ELEVATION	SERVICE ACCESS ROAD AND FENCE PENETRATE OBJECT FREE AREA AT RUNWAY 16 END	TO REMAIN

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 +).



RUNWAY DATA	RUNWAY 16-34				RUNWAY 16R-34L			
	EXISTING		ULTIMATE		ULTIMATE			
	16	34	16L	34R	16R	34L		
AIRCRAFT APPROACH CATEGORY-DESIGN GROUP	C-II				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%		Same		1.1%			
RUNWAY MAXIMUM GRADIENT	1.0%		Same		1.1%			
PAVEMENT DESIGN STRENGTH (in thousand lbs.) ¹	75(S), 200(D), 400(DTW)		75(S), 200(D), 400(DTW)		12.5(S)			
PAVEMENT CLASSIFICATION NUMBER (PCN)	47/F/IB/WW		TBD		--			
APPROACH SLOPE	34.1	34.1	Same	50:140:1	20.1	20.1		
RUNWAY END ELEVATION (MSL)	625.6'	707.1'	Same	Same	642.0'	693.0'		
RUNWAY TOUCHDOWN ZONE ELEVATION (MSL)	645.5'	707.1'	Same	Same	677.8'	693.0'		
RUNWAY HIGH POINT ELEVATION (MSL)	707.1'		Same	Same	6930'			
RUNWAY LOW POINT ELEVATION (MSL)	625.6'		Same	Same	642.0'			
LINE OF SIGHT REQUIREMENT MET	YES		Same	Same	YES			
RUNWAY LENGTH	8500'		Same	Same	4600'			
RUNWAY WIDTH	150'		Same	Same	75'			
RUNWAY BEARING (TRUE)	176.48°	356.46°	Same	Same	176.92°	356.92°		
RUNWAY SAFETY AREA LENGTH BEYOND STOP END OF RUNWAY	1000'	1000'	Same	Same	300'	300'		
RUNWAY SAFETY AREA WIDTH	500'		Same	Same	150'			
RUNWAY OBJECT FREE AREA LENGTH BEYOND STOP END OF RUNWAY	878'	1000'	Same	Same	300'	300'		
RUNWAY OBJECT FREE AREA WIDTH	800'		Same	Same	500'			
RUNWAY OBSTACLE FREE ZONE LENGTH BEYOND RUNWAY END	200'	200'	Same	Same	200'	200'		
RUNWAY OBSTACLE FREE ZONE WIDTH	400'		Same	Same	250'			
DISTANCE FROM RUNWAY CENTERLINE TO HOLD BARS AND SIGNS	250'		256.3'		128'			
RUNWAY MARKING	NP	NP	Same	P	V	V		
STANDARD SEPARATION - RUNWAY CL TO PARALLEL TAXIWAY CL	400'		Same		60'			
STANDARD SEPARATION - TAXIWAY CL TO FIXED OR MOVABLE OBJECT	93'		129.5'		24.5'			
RUNWAY THRESHOLD DISPLACEMENT	0'	0'	Same	Same	0'	0'		
RUNWAY SURFACE/PAVEMENT MATERIAL	Asphalt		Same		Asphalt			
RUNWAY PAVEMENT SURFACE TREATMENT	Grooved		Same		None			
RUNWAY LIGHTING	MIRL		HIRL		MIRL			
TAXIWAY WIDTH	75' (50' Standard)		Same		35'			
TAXIWAY SURFACE MATERIAL	Asphalt		Same		Asphalt			
TAXIWAY OBJECT FREE AREA WIDTH	186'		259'		131'			
TAXIWAY SAFETY AREA WIDTH	118'		79'		79'			
TAXIWAY WINGTIP CLEARANCE	34'		44'		26'			
TAXIWAY MARKING	Enhanced		Same		Enhanced			
TAXIWAY LIGHTING	MITL		Same		MITL			
RUNWAY NAVIGATION AIDS	RNAV GPS (16L,34) VOR (34)		LPV GPS (16L,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	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	665.0
5	CHARTER BUS LOADING	648.4
6	--	--
7	FEDEX	653.0
8	FBO GROUND HANDLING OFFICE	653.0
9	AIR TRAFFIC CONTROL TOWER & BEACON	793.8
10	CONVENTIONAL HANGAR	663.5
11	CONVENTIONAL HANGAR	665.8
12	--	--
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	645.5
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	671.8
30	CONVENTIONAL HANGAR	671.9
31	OFFICE BUILDING	652.4
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	672.5
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
43	ARFF	±726.0
44	UTILITY VAULT	680.0

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		707.1' MSL	707.1' MSL
MEAN MAXIMUM TEMPERATURE OF HOTTEST MONTH		106.2° J	108.2° J
AIRPORT REFERENCE POINT (NAD 83)		Latitude 35° 09' 16.6100" N	35° 09' 09.709" N
		Longitude 114° 33' 33.5960" W	114° 33' 36.030" W
AIRPORT INSTRUMENT APPROACH		GPS, VOR	GPS, ILS, VOR
NAVAIDS		Airport Beacon ATCT GPS (16.34) VOR (34) 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

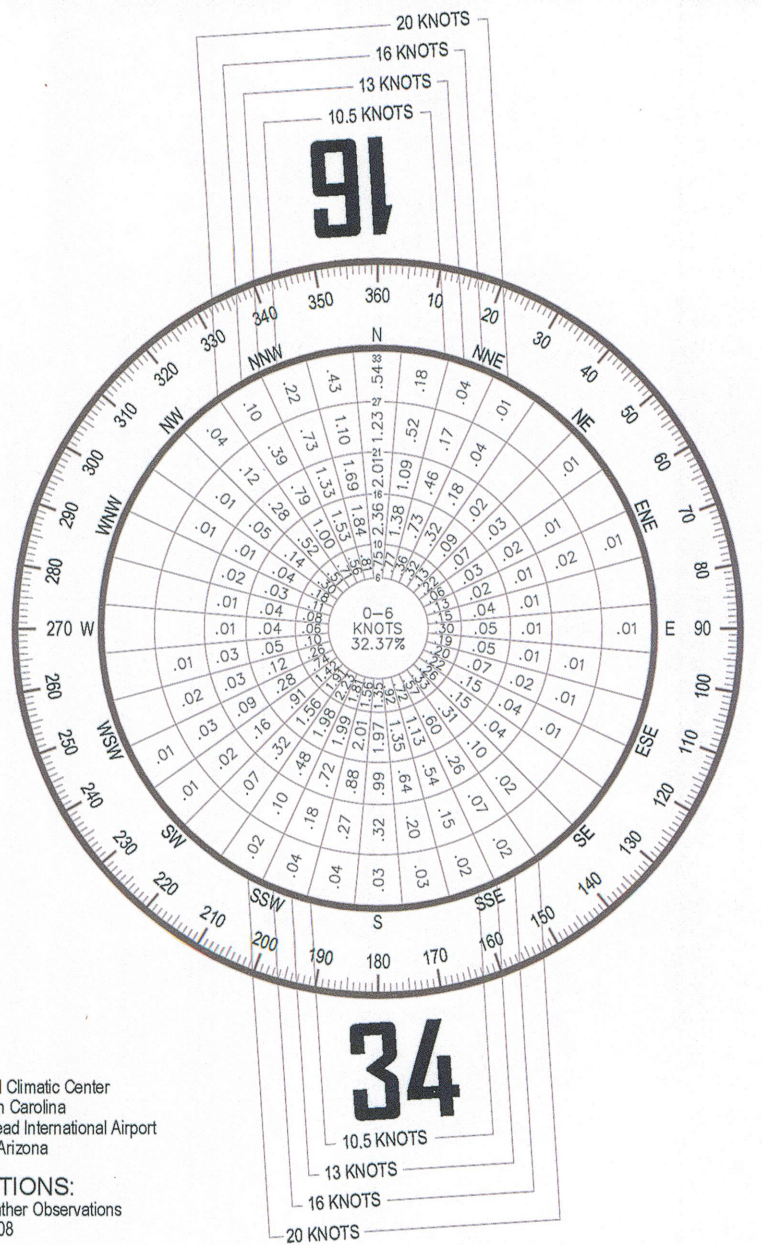
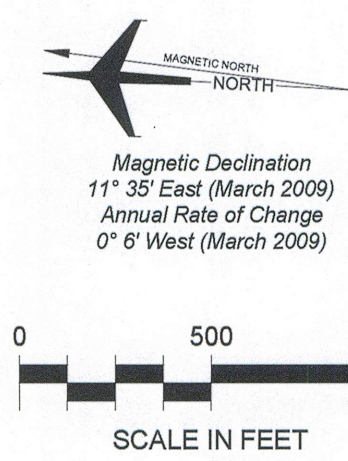
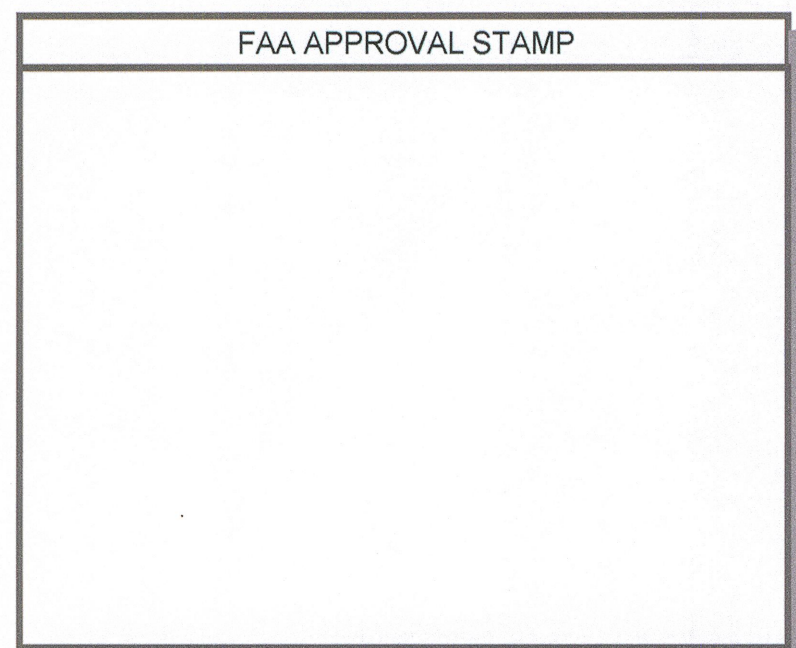
PROPOSED BUILDING TABLE		
ULT	DESCRIPTION	TOP LEV*
101	INTERIM AIR CARGO/AIR FREIGHT BUILDING	670.0
102	CONVENTIONAL HANGAR	667.0
103	CONVENTIONAL HANGAR	667.0
104	CONVENTIONAL HANGAR	667.0-687.0
105	AIRCRAFT WASH RACK	660.0
106	T-HANGARS	662.0
107	T-HANGARS	667.0
108	AIRPORT MAINTENANCE	--
109	ULTIMATE AIR CARGO/AIR FREIGHT BUILDING	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' 58.5647" N	114° 33' 36.7566" W
EXISTING RUNWAY 34	35° 09' 34.6659" N	114° 33' 30.4355" W
ULTIMATE RUNWAY 16L	SAME	SAME
ULTIMATE RUNWAY 34R	SAME	SAME
ULTIMATE RUNWAY 16R	35° 09' 19.6830" N	114° 33' 42.2460" W
ULTIMATE RUNWAY 34R	35° 09' 34.2540" N	114° 33' 38.6167" W

GENERAL NOTES:

1. HORIZONTAL DATUM: NORTH AMERICAN DATUM 1983 - NAD83. VERTICAL DATUM: NORTH AMERICAN DATUM 1988 - NAVD88. PROVIDED BY STANTEC CONSULTING DERIVED FROM AS-BUILT WOOLPERT SURVEY DATED JANUARY 2017.
2. EXISTING RUNWAY END COORDINATES, BEARINGS AND ELEVATIONS PROVIDED BY STANTEC CONSULTING DERIVED FROM AS-BUILT WOOLPERT SURVEY DATED JANUARY 2017.
3. EXISTING ARP COORDINATES FROM EXISTING DATA PROVIDED BY STANTEC CONSULTING DERIVED FROM AN AS-BUILT SURVEY DATED JANUARY 2017, PERFORMED BY WOOLPERT. ULT ARP CALCULATED USING ABOVE MENTIONED DATA SUPPLIED BY STANTEC.
4. NO OFZ PENETRATIONS
5. SEE SHEETS 8 THROUGH 11 FOR THRESHOLD SITING SURFACE OBJECT PENETRATION DETAILS.
6. ALL ELEVATIONS IN NAVD 88.
7. TAXIWAY A5 MAY BE CLOSED WHEN ADJACENT HIGH SPEED EXIT TAXIWAYS ARE CONSTRUCTED.



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

LAUGHLIN/BULLHEAD INTERNATIONAL AIRPORT

AIRPORT LAYOUT DRAWING

BULLHEAD CITY, ARIZONA

PLANNED BY:	Chris M. Huqunin
DETAILED BY:	Diana L. Hopkins / Maggie Beaver

APPROVED BY: James M. Harris

MAY 17, 2010

SHEET 2 OF 17

Coffman Associates
Airport Consultants
www.coffmanassociates.com