W7

Background Data: March Air Reserve Base / Inland Port Airport and Environs

INTRODUCTION

March Air Reserve Base/Inland Port Airport is located in northwestern Riverside County, approximately 70 miles east of Los Angeles. For most of the second half of the twentieth century, the base was known as March Air Force Base. The current March Air Reserve Base (ARB) name became official in 1996 as a result of recommendations of the 1993 Defense Base Realignment and Closure Commission (BRAC). Although the role of March ARB has evolved over time, the runway system and other basic aeronautical components of the base have existed in largely their present configuration since the World War II era. The airport's primary runway (Runway 14-32)—oriented north-northwest/south-southeast—is 13,300 feet in length, making it one of the longest in the state. The length, width, and pavement strength of Runway 14-32 enable it to accommodate nearly any type of military or civilian aircraft. The smaller secondary runway—Runway 12-30—was once the primary runway, but its length is now reduced to just over 3,000 feet and its use restricted to light military aircraft (helicopters and Aero Club airplanes). Civilian use of Runway 12-30 is not permitted. Exhibit MA-1 summarizes major airport features and Exhibit MA-2 depicts the overall layout of the airport.

Compared to the years when March operated as an Air Force Base, aircraft activity levels are substantially lower. Activity counts maintained by the Air Force air traffic control tower personnel at the base indicate a total of 34,230 aircraft operations took place during calendar year 2006, compared to approximately 125,000 during the peak years as an Air Force Base. Newer data for military aircraft operations is not available. As of calendar year 2012, fewer than 100 annual operations by civilian aircraft have occurred since discontinuation of commercial air cargo aircraft activity.

Two scenarios for future aircraft operations are taken into account in the March Air Reserve Base / Inland Port Airport Land Use Compatibility Plan. The first scenario is as documented in the 2005 AICUZ Study [Air Installation Compatible Use Zone Study for March Air Reserve Base (AICUZ) (Department of the Air Force, August 2005)]. The AICUZ projects a total of up to 69,600 aircraft operations, including 44,860 by military aircraft, 3,740 by CalFire aircraft, and 21,000 by civilian aircraft. The second scenario is a composite of data from three more recent studies: the F-15 conversion study [F-15 Aircraft Conversion Environmental Impact Statement 144th Fighter Wing California Air National Guard Fresno-Yosemite International Airport (National Guard Bureau, March 2013)]; the Total Force Integration study [Environmental Assessment for Proposed Military Construction and Total Force Integration at March Air Reserve Base (Air Force Reserve Command, June 2010)]; and a study of general aviation facility needs done for the March Joint Powers

Authority [Environmental Impact Report for March Inland Port General Aviation Facilities Development (March Joint Powers Authority, August 2012)]. This scenario assumes a potential future mission of 54,104 annual military aircraft operations plus 21,000 civilian aircraft operations and no CalFire operations. Note that while both scenarios show civilian activity as limited to 21,000 annual aircraft operations in accordance with the joint use agreement and associated air quality conformance determination, the AICUZ scenario includes a much higher volume of evening and night air cargo activity than is included in the second scenario.

A summary of available data on current and both potential future activity scenarios is contained in Exhibit MA-3. Noise contours for the combined future military and civilian activity are depicted in Exhibit MA-4. The contours reflect a composite of the contours originally prepared as part of the four studies noted above. The noise contours and other compatibility factors contributing to the compatibility map delineation are depicted in Exhibit MA-5.

The March ARB/IPA facility is bordered by the City of Riverside to the northwest; the City of Moreno Valley to the northeast; the City of Perris to the south; and the County of Riverside to the west. The land uses in the vicinity of March ARB/IPA are generally compatible with base operations. Development continues to occur in the airport vicinity, however, and a potential for increased conflicts is apparent. Exhibit MA-6 provides a tabular summary of information about current and planned land uses in the airport vicinity. Exhibits MA-7A through MA-7F individually map the land use designations indicated in the current adopted general plans of each of the surrounding jurisdictions: Riverside County, March Joint Powers Authority, and the cities of Menifee, Moreno Valley, Perris, and Riverside.

GENERAL INFORMATION

- ➤ Airport Ownership: United States Air Force
 - Airfield maintenance and usage shared with March Joint Powers Authority (JPA) by means of joint use agreement last amended June 2008
- Year Opened: 1918Airport Property Size
 - Air Force property: 2,300 acres
 - > JPA property: 360 acres
- ➤ Airport Classification: Joint Use
- ➤ Airport Elevation: 1,538 feet MSL

AIRPORT PLANNING DOCUMENTS

- ➤ Joint Use Agreement
 - > Between March JPA and U.S. Air Force
 - > Amended June 2008
- ➤ Air Installation Compatible Use Zone (AICUZ) Study
 - > Prepared by U.S. Air Force, 2005
 - > Prior versions: 1985, 1992, 1998
- ➤ March Inland Port Air Cargo Development Plan
 - > Prepared for March JPA, April 1997

RUNWAY/TAXIWAY DESIGN

Runway 14-32

- ➤ Critical Aircraft: Military transport
- ➤ Airport Reference Code: D-VI
- ➤ Dimensions: 13,300 ft. long, 200 ft. wide
- ➤ Pavement Strength (main landing gear configuration)
 - > 65,000 lbs (single wheel)
 - > 260,000 lbs (dual wheel)
 - > 530,000 lbs (dual-tandem wheel)
- ➤ Average Gradient: 0.35%
- ➤ Runway Lighting
 - > High-intensity runway edge lights (HIRL)
 - Rwy 32: standard 2,400-foot high-intensity approach lighting system with centerline sequenced flashers

Runway 12-30

- ➤ Critical Aircraft: Small single- and twin-engine piston
- ➤ Airport Reference Code: B-I (small)
- ➤ Dimensions: 3,010 ft. long, 100 ft. wide
- ➤ Pavement Strength (main landing gear configuration)
 - > 12,500 lbs (single wheel)
- ➤ Average Gradient: 0.44%
- Runway Lighting: None

APPROACH PROTECTION

- Runway Clear Zones
 - > Runways 14 and 32: 3,000-ft. long; mostly on-airport
 - > Runway 12 and 30: 1,000-ft. long; all on-airport
- ➤ Approach Obstacles: None

BUILDING AREA

- ➤ Aircraft Parking Locations
 - > Military: Northeast side of airport
 - > Civilian: Northeast of Runway 32 threshold
- ➤ Other Major Facilities
 - > Air Traffic Control Tower
 - Extensive military facilities including military passenger terminal; aircraft maintenance facilities; alert aprons/ hangars; munitions storage
 - > General aviation terminal (5,000 sq. ft.)
 - > Former DHL air cargo facility
- Services
 - > Civilian fuel farm at civilian airport

TRAFFIC PATTERNS AND APPROACH PROCEDURES

- ➤ Airplane Traffic Patterns
 - > All runways: Left traffic
 - > Pattern altitude:
 - Rectangular 3,000 ft. MSL (1,465 ft. above runway elevation)
 - · Overhead 3,500 ft. (1,965 ft. above runway elevation)
- ➤ Instrument Approach Procedures (best minimums)
 - > Runway 32 ILS (CAT II):
 - · Straight-in (1,600 ft. visibility; 100 ft. descent height)
 - > Runway 32 ILS:
 - · Straight-in (1/2 mi. visibility; 200 ft. descent height)
 - · Circling (1 mi. visibility; 600 ft. descent height)
 - > Runway 32 TACAN:
 - · Straight-in (1/2 mi. visibility; 400 ft. descent height)
 - · Circling (1 mi. visibility; 600 ft. descent height)
 - Runway 32 VOR:
 - · Straight-in (½ mi. visibility; 400 ft. descent height)
 - · Circling (1 mi. visibility; 600 ft. descent height)
 - > Runway 14 TACAN (offset 29° west of straight in):
 - · Straight-in (1 mi. visibility; 700 ft. descent height)
 - · Circling (1 mi. visibility; 700 ft. descent height)
 - > No circling northeast of runway on any procedure
- Standard Instrument Departure Procedures (SKYES-TWO)
 Rwy 14: straight out to 20 NM, then right turn
 - > Rwy 32: left turn to at 2.0± mile beyond runway end south to DIAMD intersection (south of Lake Elsinore)
- ➤ Visual Approach Aids
 - > Airport: Rotating beacon
 - Runways 14 and 32: PAPI
- ➤ Operational Restrictions / Noise Abatement Procedures
 - > Prior permission required for all transient civilian aircraft

PLANNED FACILITY IMPROVEMENTS

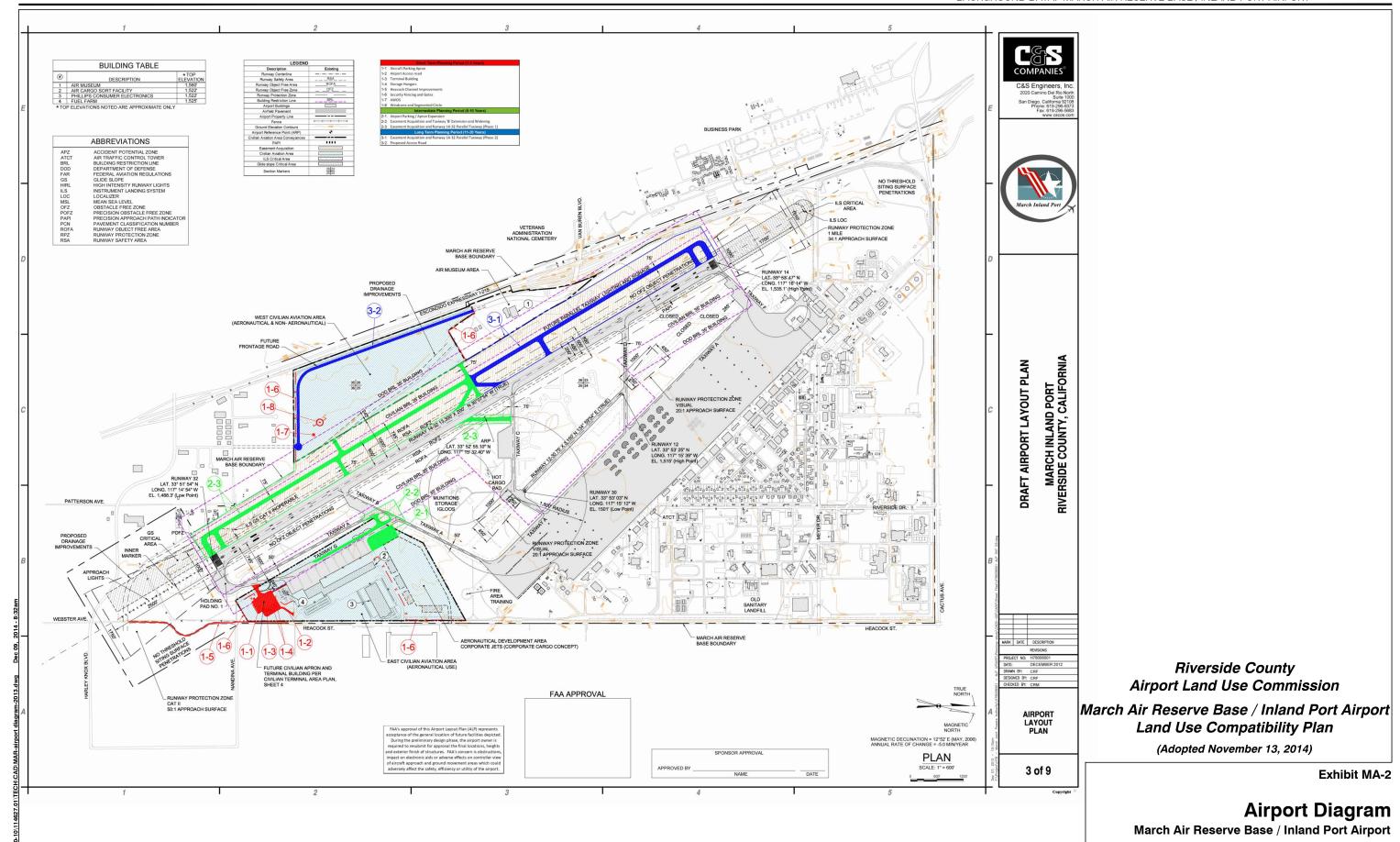
- ➤ Airfield
 - > Construct full-length west parallel taxiway for civilian use
- Building Area
 - Air cargo facilities expansion northeast and northwest of Runway 32 approach end
- Property
 - > No fee acquisition planned

Exhibit MA-1

Airport Features Summary

March Air Reserve Base / Inland Port Airport

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Source: C&S Engineers, Inc. (December 2012)

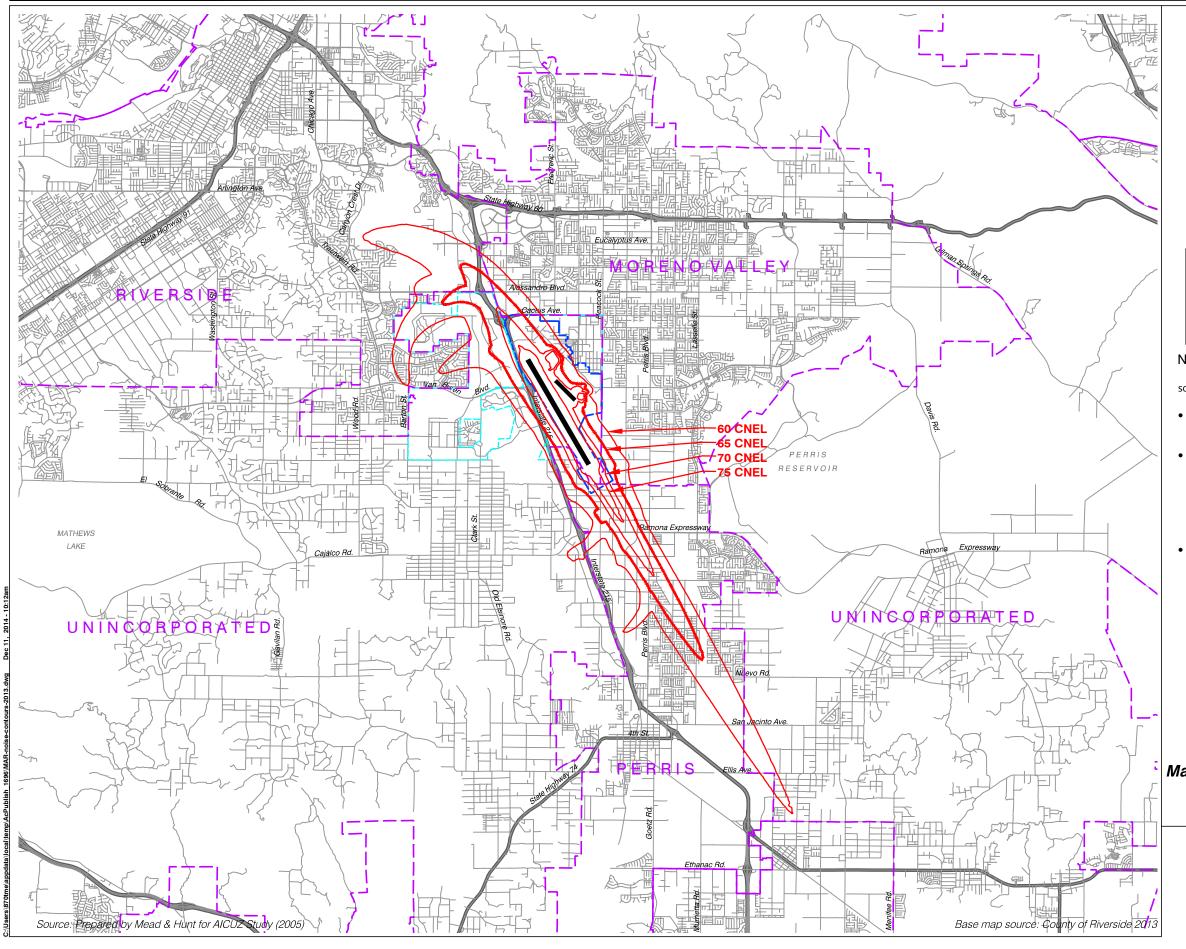
BASED AIRCRAFT				TIME OF DAY DISTRIBUTION	ON		
	Current	Future	Future		Current	Future b	Future
Data Not Available				Fighter/Attack Aircraft			
ANNUAL AIRCRAFT OPER	ATIONS			Day (7:00 a.m 7:00 p.r	m.) *	92%	91% '
ANNUAL AIRCHAFT OPEN		Future ^b	Euturo C	Evening			
	Current		Future ^c	(7:00 p.m. – 10:00 p.n		8%	7%
Military	*	44,860	54,104 ^d	Night (10:00 p.m. – 7:00	a.m.) *	0%	2%
CalFire	0	3,740	0	Other Military Aircraft – Arı	rivals		
Civilian	66 ^a	21,000	21,000 ^c	Day	*	85%	66%
Total Annual Operations	*	69,600	75,104	Evening	*	12%	17%
Average Per Day	*	191	206	Night	*	3%	17%
OPERATIONS BY AIRCRAF	т Түре			Other Military Aircraft – De	partures		
	Current	Future b	Future ^c	Day	*	88%	71% '
Military	Carrent	(69.4%)	(72.0%)	Evening	*	11%	4%
Transport	*	45.5%	37.7%	Night	*	1%	25%
Fighter/Attack	*	5.0%	2.4%	Other Military Aircraft – Clo	osed Patterr	7	
Helicopter	*	4.7%	8.0%	Day	*	, 61%	86%
Tanker	*	42.4%	46.2%	•	*		
Contract Air Carrier	*	2.4%	1.1%	Evening Night	*	18% 21%	9% 5%
Small Prop (Aero Clu	b) *	* e	4.6%	· ·		2170	5%
Civilian	-,	(30.2%)	(28.0%)	Civilian Aircraft			
Commercial Jet	3% ^a	60.0%	60%	Day	*	37%	90% (
Business Jet	33%	9.2%	6%	Evening	*	35%	5%
Prop(single & twin)	61%	30.8%	33%	Night	*	28%	5%
Helicopter	3%	0.0%	1%	FLIQUE TRACK HOACE			
CalFire [']		(5.4%)	(0%)	FLIGHT TRACK USAGE Data Not Available			
T.,,,,				Data Not Available			
TYPE OF OPERATION		h		NOTES			
	Current	Future ^b	Future ^c	 Future activity represents 	combinatio	n of projec	cted
Military				military mission and maxi	imum appr	oved civilian	aircraft
Local	*	43%	21%	operations for undetermin	ned dates		
Intinerant	* a	57%	79%	 Data not available 			
Civilian				^a Source: March Inland Po	rt Airport Ai	thority CV	
Local	0%				, po,	unionly of	2012 data
		0%	0%	^b Source: Air Installation Co		-	
Intinerant	100%	0% 100%	0% 100%	b Source: Air Installation Con March Air Reserve Base	ompatible U	lse Zone St	udy for
	100%			March Air Reserve Base Force, August 2005)	ompatible U (AICUZ) (De	Ise Zone Sto epartment o	<i>udy for</i> f the Air
	100% ON ^f	100%	100%	March Air Reserve Base Force, August 2005) Sources: Environmental A	ompatible U (AICUZ) (De Assessment	Ise Zone State Partment of for Propose	udy for f the Air ed
RUNWAY USE DISTRIBUTI	100% ON f Current			March Air Reserve Base Force, August 2005) Sources: Environmental A Military Construction and	ompatible U (AICUZ) (De Assessment Total Force	Ise Zone Sta epartment of for Propose Integration	udy for f the Air ed at March
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RUNWAY USE DISTRIBUTI Military Aircraft - Day/Eve Arrivals Runway 14 Runway 32 Departures	ON f Current ning/Night *	100% Future b 10% 90%	100% Future ^c 2% 98%	March Air Reserve Base Force, August 2005) Sources: Environmental A Military Construction and Air Reserve Base (Air For 2010); Environmental Imp Port General Aviation Fac Powers Authority, August Source: F-15 Aircraft Con Impact Statement 144th F	ompatible U (AICUZ) (De Assessment Total Force ce Reserve pact Report illities Devel 2012) version Env Fighter Wing	for Propose Integration Command for March I. Copment (March I. Copmental and California I. California I. California I. California I.	udy for If the Air
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Exhibit MA-3

Airport Activity Data Summary

March Air Reserve Base / Inland Port Airport

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LEGEND

Noise Contours

60 dB CNEL 65 dB CNEL 70 dB CNEL 75 dB CNEL

Projected Activity Level (75,104 operations)

Boundary Lines

March Air Reserve Base / Inland Port Airport March Joint Powers Authority Property Line

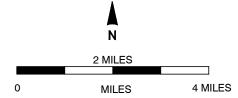
City Limits

Projected Activity Level

Annual Operations 75,104 Average Annual Day 206

Contours represent composite of noise contours from four

- Forecasts and noise contours from Air Installation Compatible Use Study for March Air Reserve Base (August 2005).
- Environmental Assessment for Proposed Military Construction and Total Force Integration at March Air Reserve Base (Air Force Reserve Command, June 2010); Environmental Impact Report for March Inland Port General Aviation Facilities Development (March Joint Powers Authority, August 2012).
- F-15 Aircraft Conversion Environmental Impact Statement 144th Fighter Wing California Air National Guard Fresno-Yosemite International Airport (National Guard Bureau, March 2013).



Riverside County Airport Land Use Commission

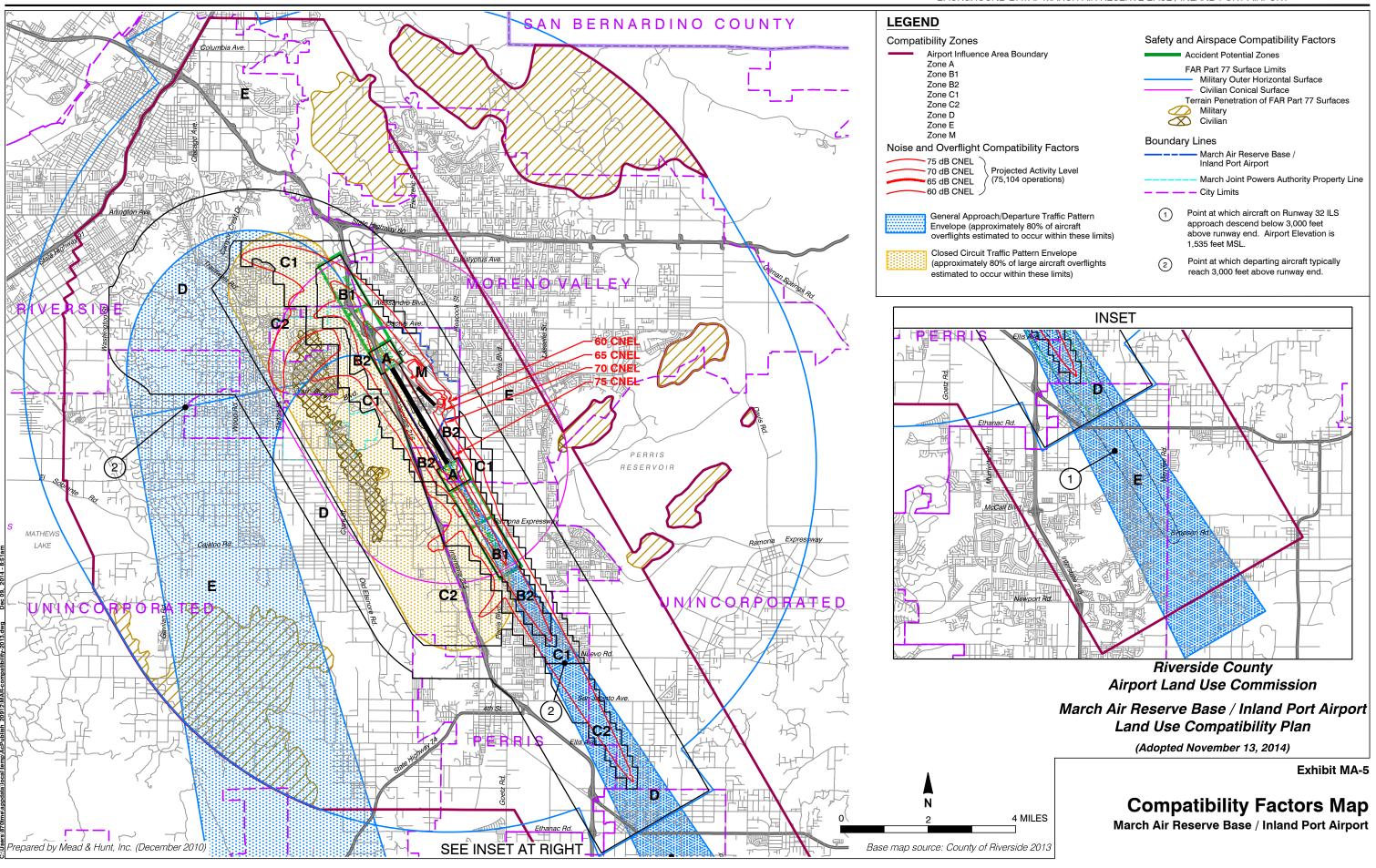
March Air Reserve Base / Inland Port Airport Land Use Compatibility Plan

(Adopted November 13, 2014)

Exhibit MA-4

Noise Impact Area

March Air Reserve Base / Inland Port Airport



AIRPORT SITE

- ➤ Location
 - > Northwestern section of Riverside County
 - > 10 miles southeast of central Riverside
 - > Situated on high valley floor of Perris Valley
- ➤ Nearby Terrain
 - > Relatively flat in immediate vicinity
 - Santa Ana and San Jacinto Mountain Ranges located to the west and east, respectively
 - Terrain greater than 150 ft. above the airport elevation (1,538 ft. MSL) exists several miles to the northeast (Box Springs Mts.), southwest (Santa Ana Mts.) and southeast (Lakeview Mts.)

AIRPORT ENVIRONS LAND USE JURISDICTIONS

- ➤ Riverside County
 - > Airport lies entirely within unincorporated area
- ➤ March Joint Powers Authority
 - > Has land use authority over March JPA property
- ➤ City of Menifee
 - > City limits 81/4 miles from south end of runway
- ➤ City of Moreno Valley
 - > Borders airport to the east
- ➤ City of Perris
 - Borders airport to the south and lies beneath primary airport approach routes
- ➤ City of Riverside
 - Borders airport to the west-northwest and lies beneath primary airport departure routes

STATUS OF COMMUNITY PLANS

- ➤ Riverside County
 - General Plan adopted by Board of Supervisors October 2003
 - Reche Canyon, Mead Valley and Lake Mathews Area Plans adopted October 2003
- ➤ March Joint Powers Authority
 - > General Plan adopted by March JPA 1999
 - > General Plan Land Use Map updated January 2012
 - March Business Center Specific Plan adopted February 2003
 - > Meridian Specific Plan SP-5 adopted August 2010
 - March LifeCare Campus Specific Plan SP-7 adopted June 2011
 - > Development Code updated April 2012
 - > Zoning Map adopted April 2012
- ➤ City of Menifee
 - > General Plan adopted by City Council December 2013
- ➤ City of Moreno Valley
 - > General Plan adopted by City Council July 2006
- ➤ City of Perris
 - General Plan 2030 elements adopted by City Council on various dates 2005-2010
 - > Park West Specific Plan adopted February 2007
 - > Harvest Landing Specific Plan adopted May 2010
- ➤ City of Riverside
 - General Plan 2025 adopted by City Council November 2007

EXISTING AIRPORT AREA LAND USES

- ➤ General Character
 - Immediate area lies within the March JPA boundary and is primarily developed to the northeast with development beginning west of Highway 215
 - Areas west and northwest (City of Riverside), north and east (city of Moreno Valley) mostly suburban residential and commercial uses
 - Southwest area (unincorporated) mostly low-density and semi-rural residential
 - South and southeast (City of Perris) suburban residential with interspersed vacant land
- ➤ Runway Approaches
 - Northwest (Runway 14): Mixed suburban residential and commercial/warehouse/light industrial uses
 - Southeast (Runway 32): Commercial/warehouse/light industrial uses among vacant land and scattered rural residential and mobile home parks

PLANNED AIRPORT AREA LAND USES

- ➤ Riverside County
 - Southwest: Very low density residential, Business Park and Light Industrial
- ➤ March Joint Powers Authority
 - Northeast: Low Density Residential, Mixed Use, Business Park, Office and Recreational area
 - West: Industrial, Business Park, Mixed Use and Commercial uses with scattered Recreational uses west of Highway 215
 - South: Aviation-related uses
- ➤ City of Moreno Valley
 - Northeast: Office, Commercial, Specific Plan areas and Residential uses
 - East: Low density residential uses with scattered commercial uses and public facilities
- ➤ City of Perris
 - > South: Industrial and commercial uses
- City of Riverside
 - Northwest: Industrial/Business Parks and Sycamore Canyon Park facility
 - West: Medium residential uses with scattered commercial uses and parks

Exhibit MA-6

Airport Environs Information

March Air Reserve Base / Inland Port Airport

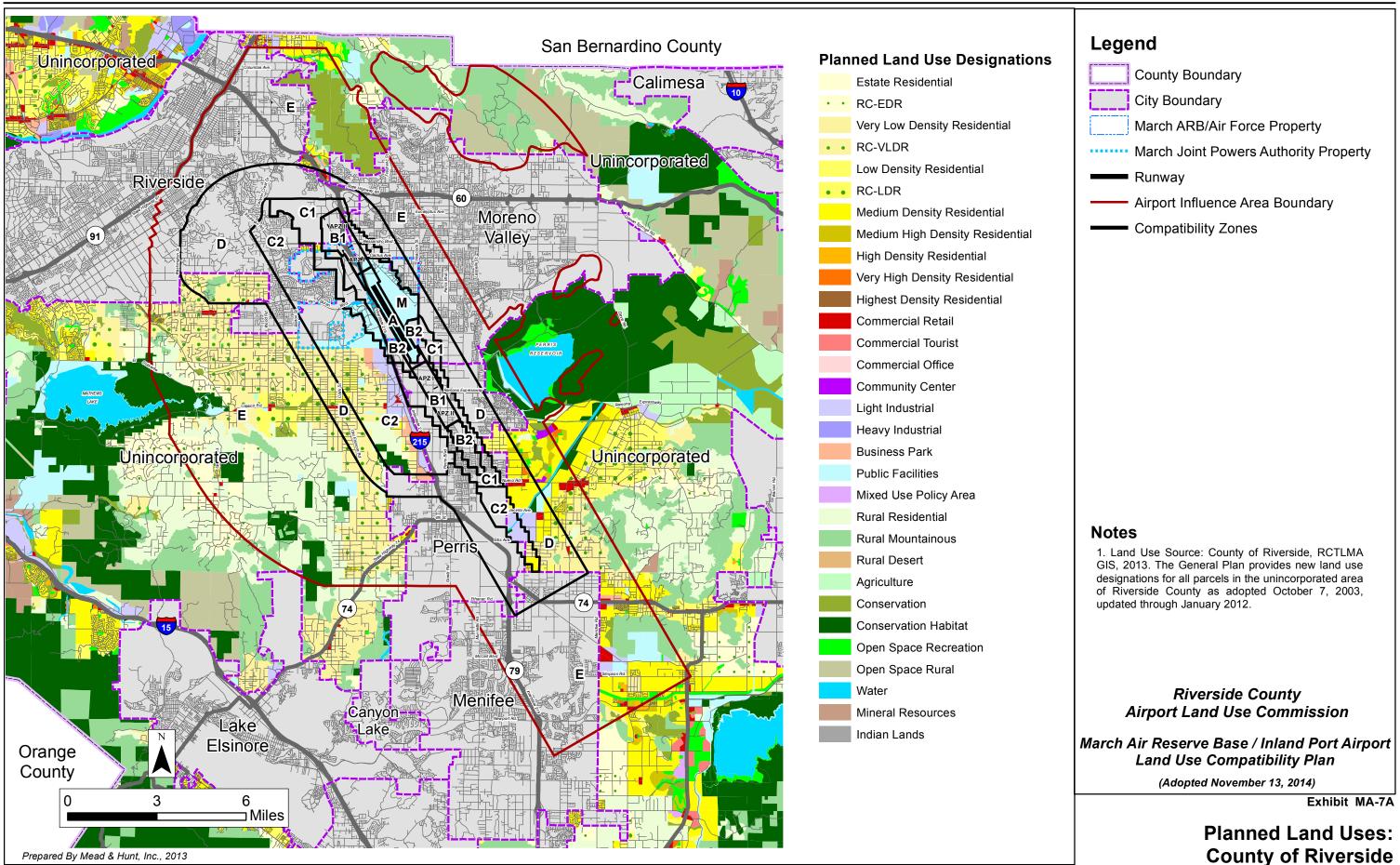
ESTABLISHED AIRPORT COMPATIBILITY MEASURES

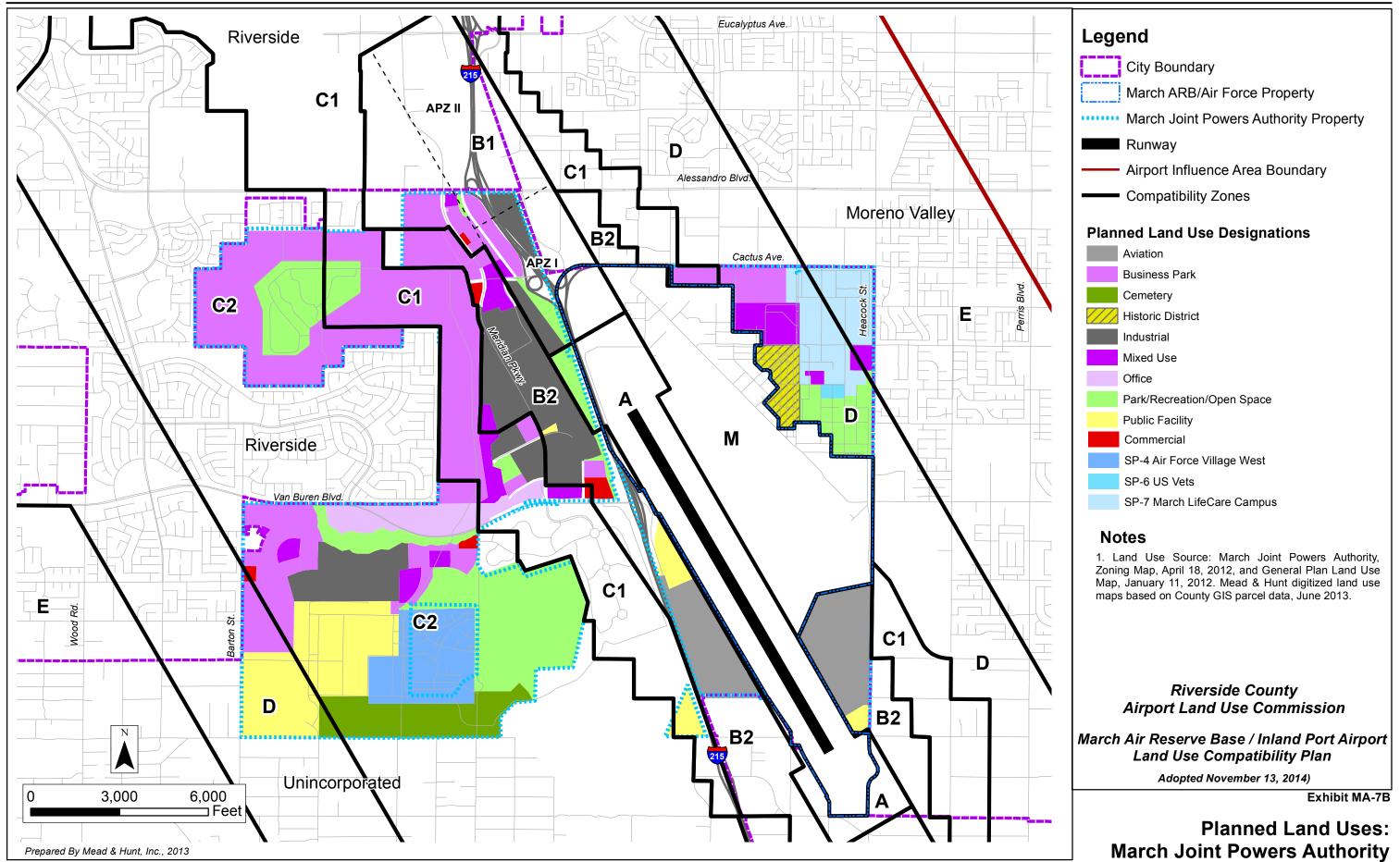
Policy wording not shown in quotes is condensed from original

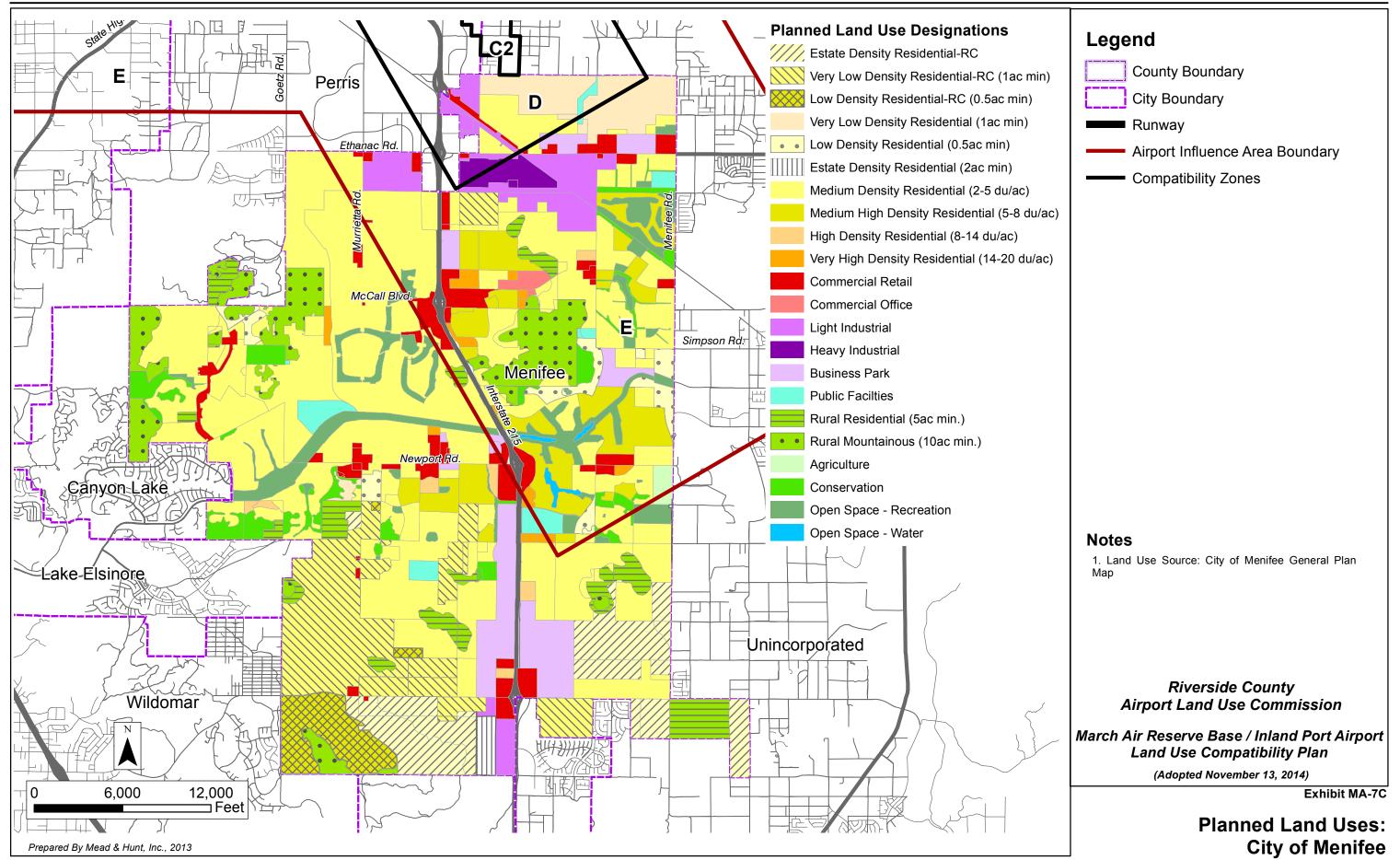
- ➤ Riverside County General Plan (October 2003)
 - Prohibit new residential uses, except single-family dwellings on legal residential lots of record, within airports' 60 dB CNEL contour as defined by ALUC (Noise Policy 7.3)
 - Submit proposed actions to ALUC as required by state law; other actions and projects may be submitted on voluntary and advisory basis (Land Use Policies 1.8 and 14.8)
- ➤ March Joint Powers Authority General Plan (1999)
 - "Ensure that plans and development conform to the draft Comprehensive Land Use Plan for March AFB/ March Inland Port." (Land Use Policy 6.5)
 - "Ensure that sensitive land uses (i.e., schools, high occupancy land uses, etc.) are discouraged from locating and operating in areas determined to be incompatible with airport operations." (Land Use Policy 6.6)
 - "Ensure that land uses adhere to both military and civilian Part 77 conical surface criteria, relative to height restrictions." (Land Use Policy 6.8)
 - "Protect flight paths from inappropriate development encroachment." (Transportation Policy 13.6)
 - "Noise sensitive uses ... shall be discouraged in areas where noise levels exceed acceptable limits." (Noise Policy 1.2)
- ➤ City of Moreno Valley General Plan (2006)
 - "Discourage residential uses where current or projected exterior noise due to aircraft over flights will exceed 65 CNEL." (Policy 6.3.2)
 - Buildings containing noise-sensitive uses require insulation where future noise environment is likely to exceed 70 CNEL (Policy 6.3.3)
 - Residential uses not permitted in APZs and business uses restricted to low intensities in accordance with AICUZ guidelines (Policy 6.16.4)
- ➤ City of Moreno Valley Zoning
 - Air Installation Compatibility Use Overlay District (AICUZ) limits types of uses within the airport's accident potential zones I and II
- ➤ City of Perris General Plan (2005)
 - "Reduce or avoid the existing and potential future impacts from air traffic on new sensitive noise land uses in areas where air traffic noise is 60 dBA CNEL or higher." (Noise Policy IV.A)
 - Consult AICUZ guidelines and ALUC policies when considering development project applications (Noise Policy I.D)
- ➤ City of Perris Municipal Code
 - Noise insulation required for new residential development where exterior noise levels equal 60 dBA CNEL or greater (Section 16.22.030)

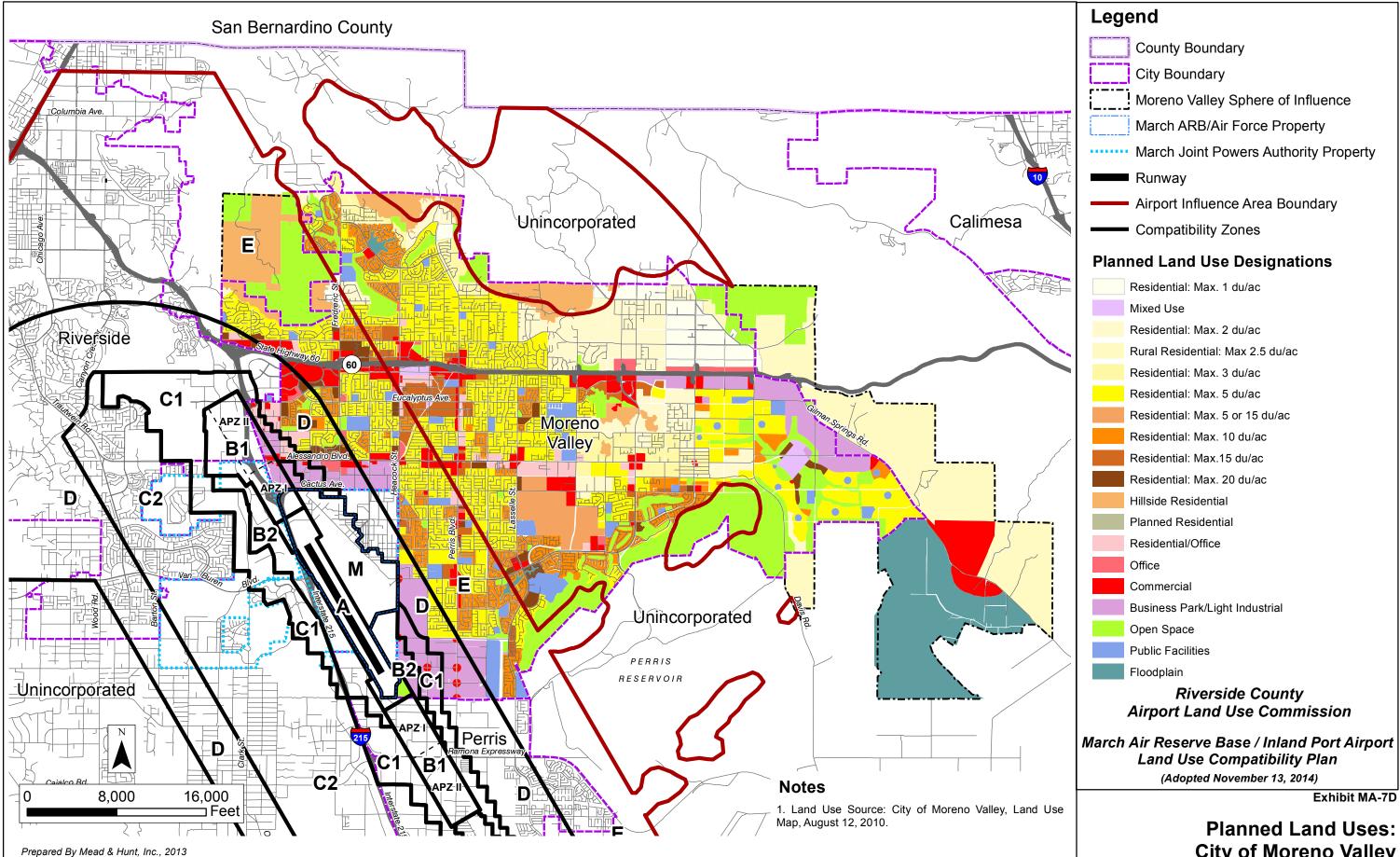
- ➤ City of Riverside General Plan (2007)
 - "Work cooperatively with the Riverside County Airport Land Use Commission in developing, defining, implementing and protecting airport influence zones around the MARB/MIP ..." (Land Use Policy 22.2)
 - "Protect flight paths from encroachment by inappropriate development using the Riverside County Airport Land Use Compatibility Plan to determine the consistency of proposed development" (Circulation Policy 11.1)
 - Limit building heights and land use intensities beneath airport approach and departure paths to protect public safety (Circulation Policy 11.2)
 - Utilize the Airport Protection Overlay Zone to advise landowners of special noise considerations associated with their development (Noise Policy 2.5)
 - "Avoid placing noise-sensitive land uses ... within the high noise impact areas (over 65 dB CNEL) for March Air Reserve Base/March Inland Port ..." (Noise Policy 3.1)
 - "Support the noise/land use policies for the area adjacent to the March Air Reserve Base/March Inland Port through the adoption of the March JLUS into the Riverside County Airport Land Use Compatibility Plan." (Noise Policy 3.4)
 - "When planning for development near airports, anticipate possible increases in airport activity and expansion of airport facilities and services and the effects these changes may have on public safety." (Public Safety Policy 4.2)
 - "Ensure that development within airport influence areas is consistent with the Airport Protection Overlay Zone development standards and the Riverside County Airport Land Use Compatibility Plan." (Public Safety Policy 4.6)
- ➤ City of Riverside Zoning Codes
 - Airport zone (AIR) and airport industrial (AI) zone restrict types of uses and heights of structures on and near airports
 - > No FAR Part 77 height limit zoning

Exhibit MA-6, continued

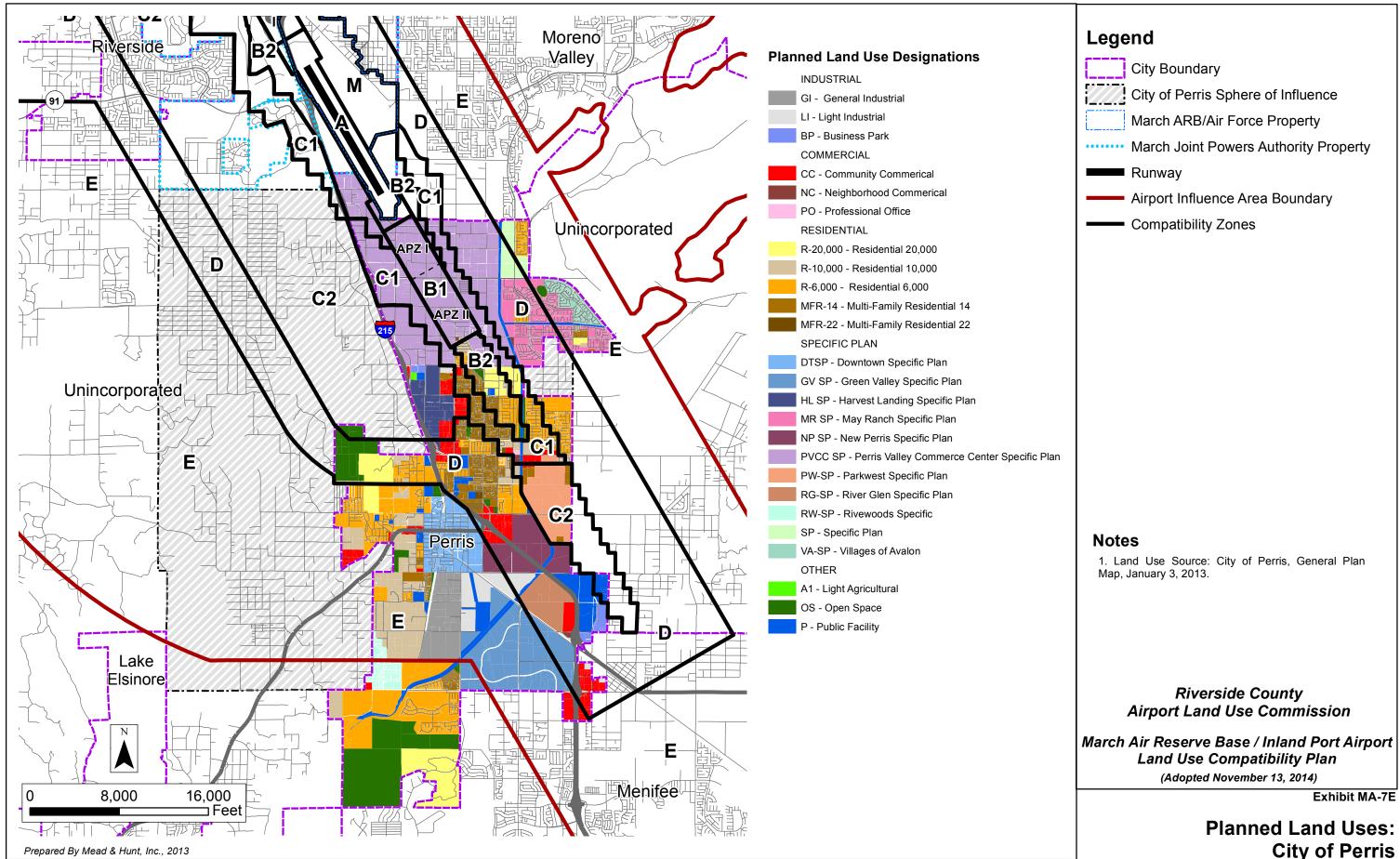








City of Moreno Valley



Planned Land Uses: City of Perris

