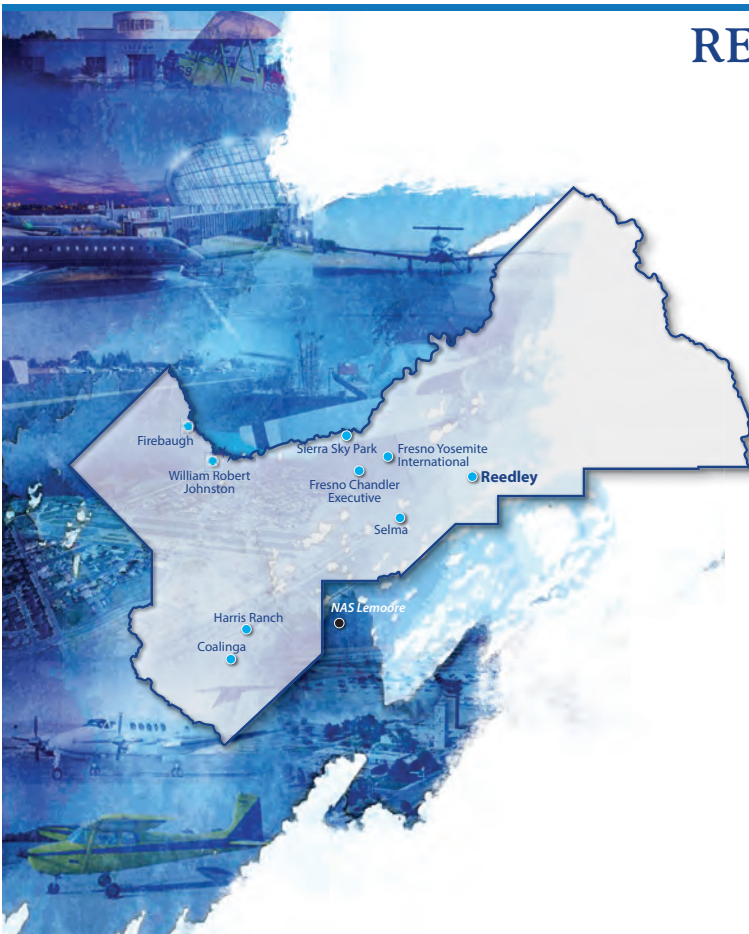




Fresno Council
of Governments

Appendix F

REEDLEY MUNICIPAL AIRPORT



Appendix F: Reedley Municipal Airport

Appendix F provides an overview of Reedley Municipal Airport's (Airport) setting, airport influence area (AIA), safety zones, noise, and airspace and overflight areas. This Appendix will also discuss existing and planned land uses, as well as current and future Airport facilities.

Reedley Municipal Airport is located four miles north of the City of Reedley on approximately 143 acres of land with an access point for vehicles along South Frankwood Avenue. The Airport sits along the Kings River in the southeastern portion of Fresno County, approximately 25 miles southeast of Fresno. The Airport is a public use facility owned by the City of Reedley. The 2017 – 2021 *National Plan of Integrated Airport Systems* classifies Reedley Municipal Airport as a local general aviation facility, and the 2013 *California Aviation Systems Plan* considers the Airport a community facility.

SAFETY ZONES

EXISTING SAFETY ZONES

The Airport Influence Area (AIA) and Safety Zones for Reedley Municipal Airport are shown on **Exhibit F1**. Figure 3A of the California Airport Land Use Planning Handbook (Handbook) provides three example zones for general aviation airports, which are differentiated by runway length. The Handbook zone examples are provided as a starting point for developing safety zones specific to an airport. As discussed below, Reedley Municipal Airport has one runway, Runway 15-33, which is 3,300 feet long. The Federal Aviation Administration (FAA)-approved Airport Layout Plan (ALP) does not include any changes to the runway length. Therefore, the Safety Zones are based on the Short General Aviation Runway example. For this plan, the outermost zone in the Handbook examples was replaced by the 14 CFR Part 77 Conical

Surface, which also represents the airspace and overflight review area boundaries. Additional information regarding the safety compatibility zones can be found in **Appendix M**.

NOISE

Exhibit F2 depicts the long-range noise exposure contours from the 2007 *Reedley Municipal Airport Land Use Compatibility Plan*.

AIRSPACE AND OVERFLIGHT

Exhibit F3 depicts the Airspace Plan from the 2013 *Reedley Municipal Airport Layout Plan Update*. This exhibit includes the 14 CFR Part 77 Conical Surface which is also the Airport Influence Area (AIA) for Reedley Municipal Airport.

AIRPORT INFORMATION

AIRPORT FACILITIES

Airport facilities are detailed in **Table F1** and **Exhibit F4** shows the ALP (August 2013).

Reedley Municipal Airport has one runway, Runway 15-33, that is 3,300 feet long and 50 feet wide. The runway is constructed of asphalt and in good condition. Runway 15 has a standard, left-hand traffic pattern and Runway 33 has a right-hand traffic pattern to avoid the school that is one-half mile north of Runway 15 end. The runway can withstand up to 30,000 pounds. Runway pavement markings are basic and in good condition. Runway lighting consists of medium intensity runway lighting and runway end identifier lights. There is a touchdown point but it is unlighted. The runway has visual approach aids on both ends as there is a two-light precision approach path indicator (PAPI) on the left. The glide angle is three degrees on Runway 15 and four degrees on Runway 33. There are no instrument approach aids.

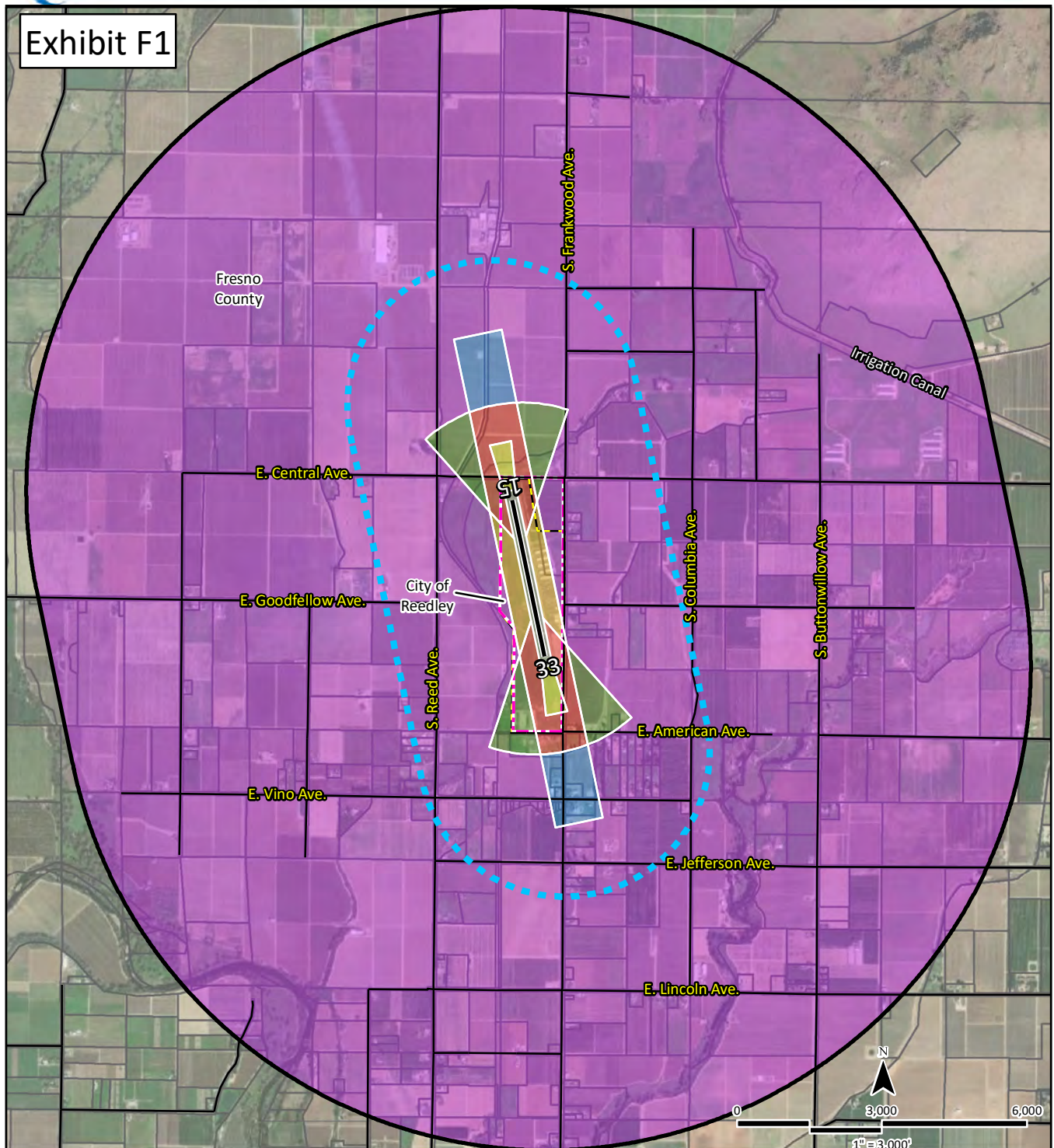
FUTURE AIRPORT PLANS

According to the *Airport Layout Plan Update* (August 2013), the City of Reedley and the FAA plan to concentrate on enhancing Airport drainage and rehabilitation of existing infrastructure. Additionally, short-term development projects include:

- Design and construction of the Runway Safety Area (RSA) and shoulder safety improvements.
- Design and construction of transient aircraft apron pavement, closure and rehabilitation of the remaining apron.
- Design of airfield lighting, runway and taxiway signage, pavement markings improvements, and airport electrical upgrades.



Exhibit F1



LEGEND

- Runway¹
- Airport Property¹
- Parcel Boundary
- Municipal Boundary
- Streets
- Airport Influence Area (AIA)²
- Review Area⁴

Safety Zones³

- 1. Runway Protection Zone
- 2. Inner Approach/Departure Zone
- 3. Inner Turning Zone
- 4. Outer Approach/Departure Zone
- 5. Sideline Zone
- 6. Traffic Pattern Zone

¹Reedley Municipal Airport Layout Plan (2013).

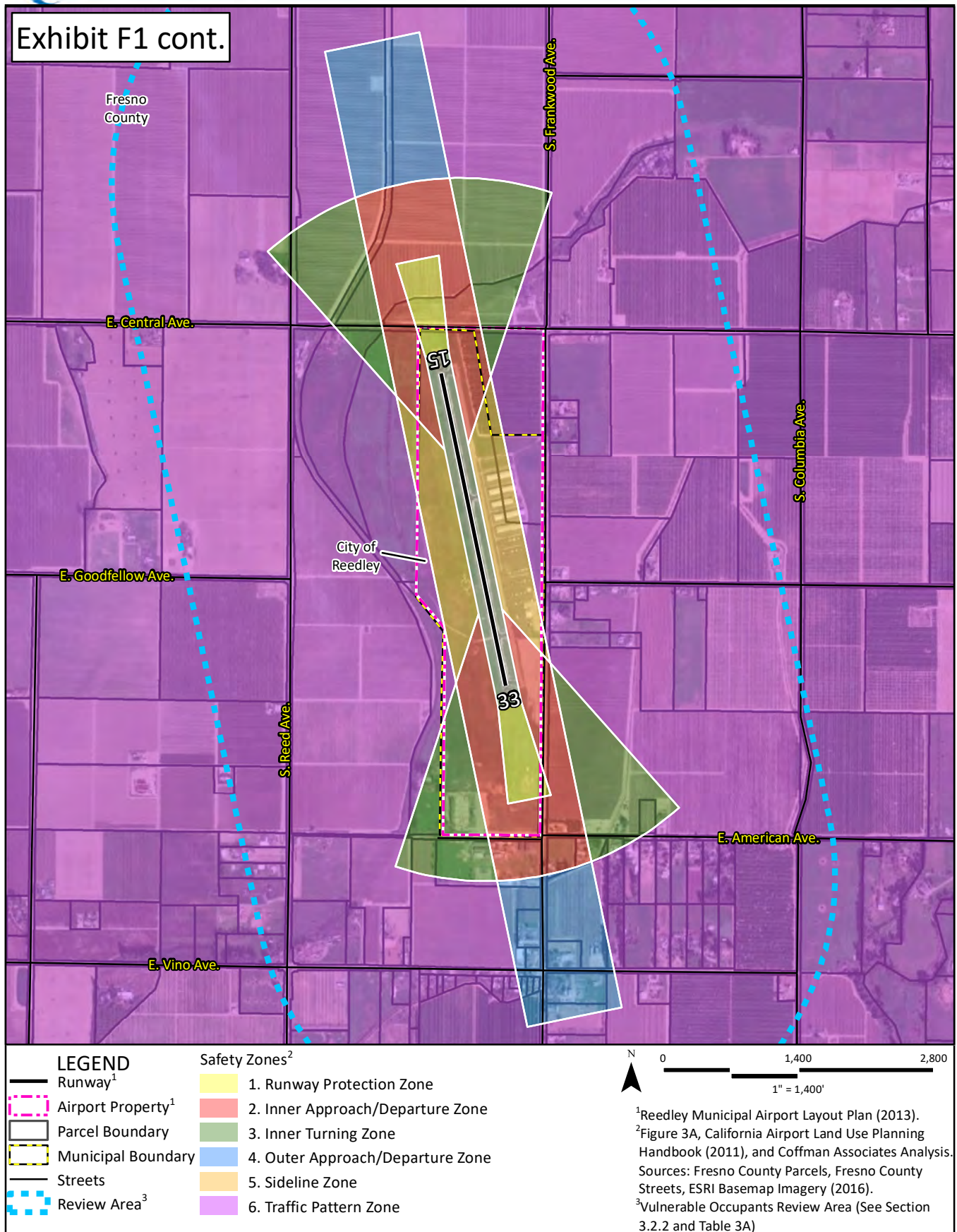
²Part 77 Conical Surface. See 14 CFR, Subchapter E, Part 77, §77.25.

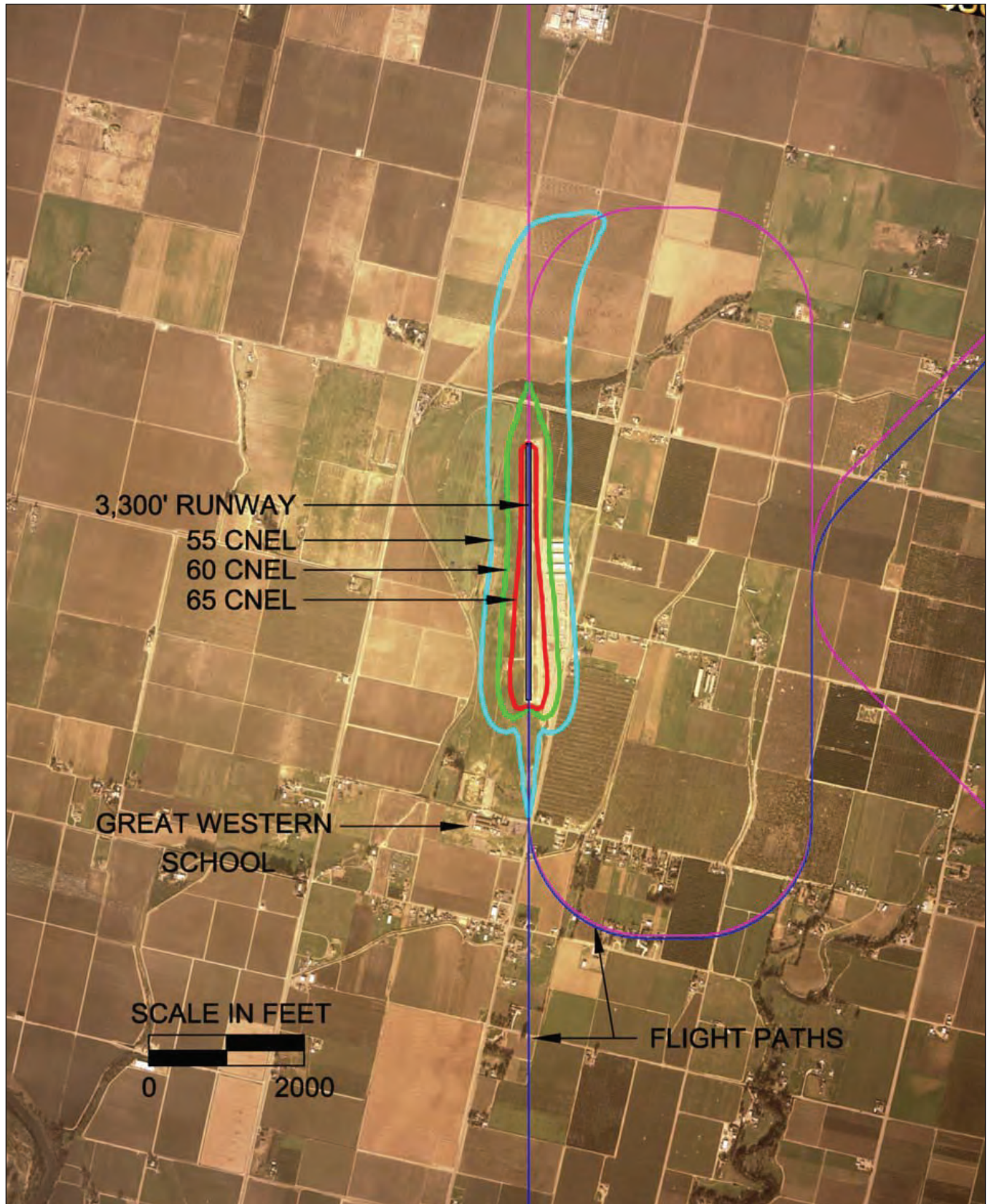
³Figure 3A, California Airport Land Use Planning Handbook (2011), and Coffman Associates Analysis. Sources: Fresno County Parcels, Fresno County Streets, ESRI Basemap Imagery (2020).

⁴Vulnerable Occupants Review Area (See Section 3.2.2 and Table 3A)

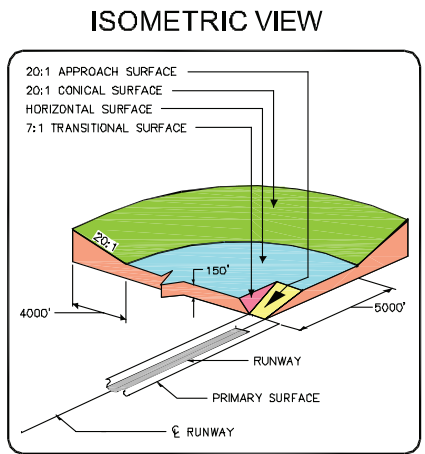
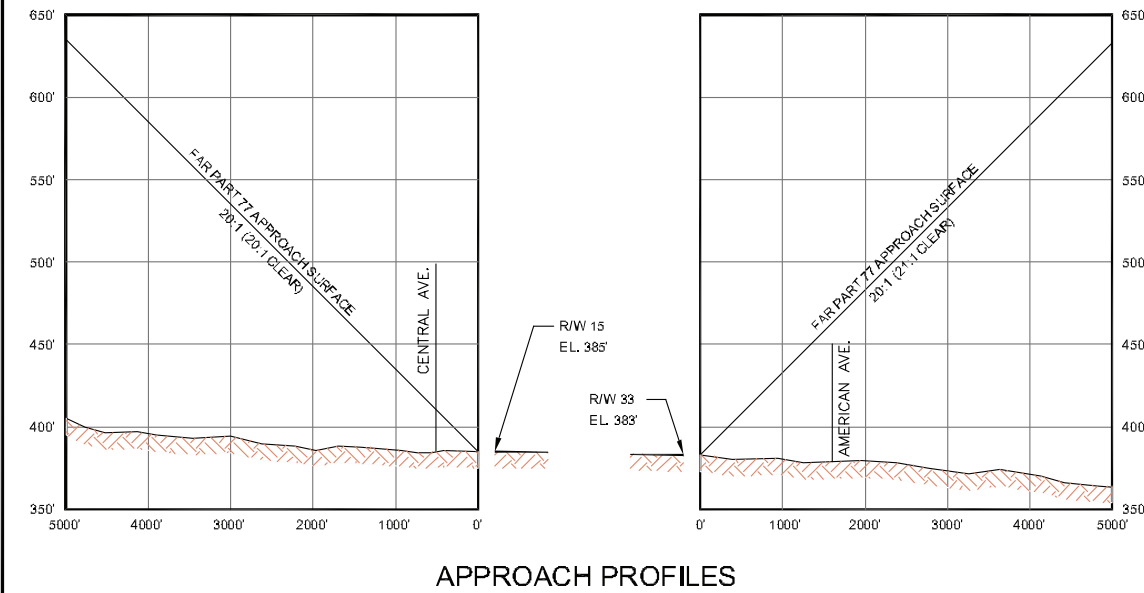
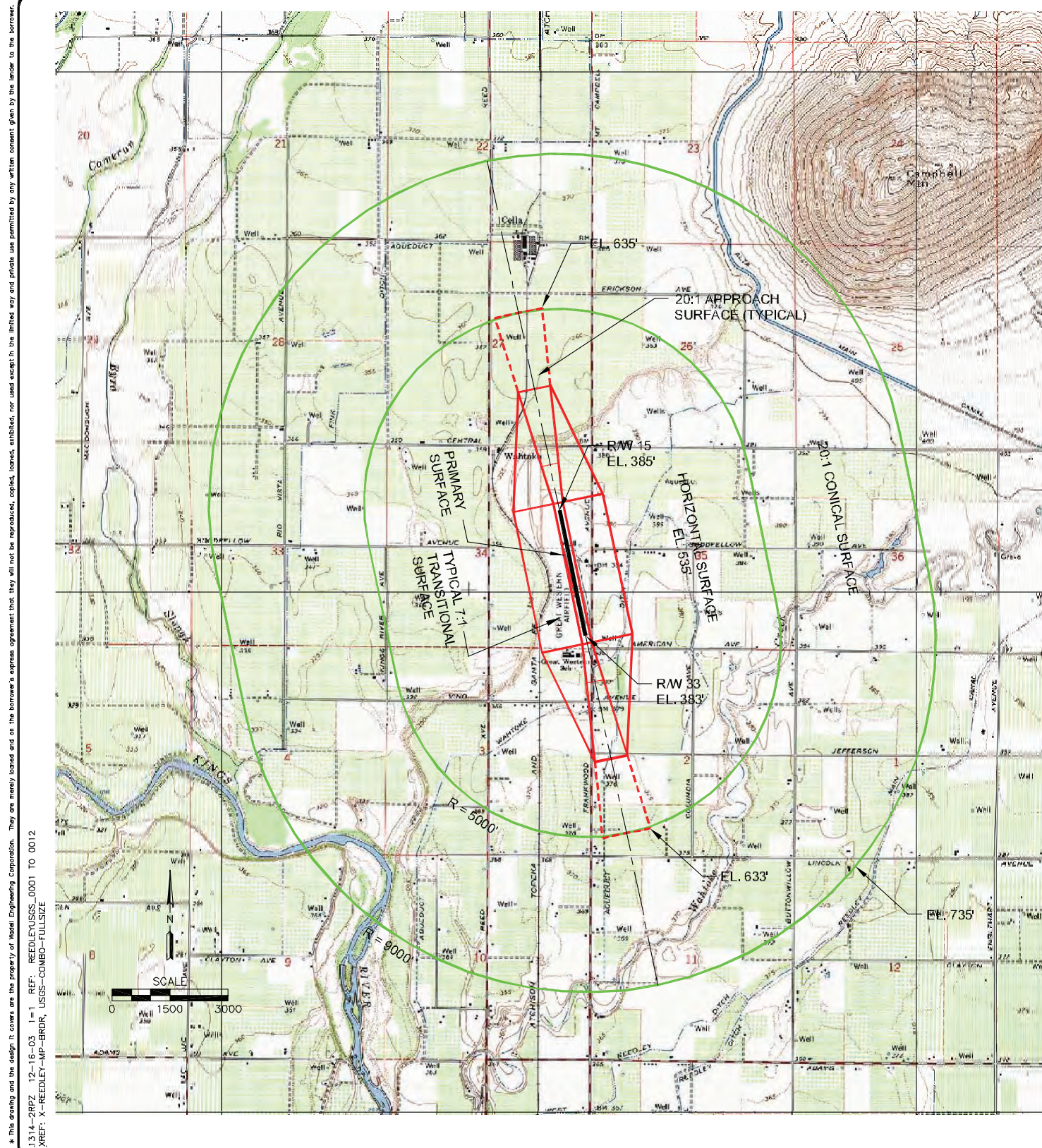


Exhibit F1 cont.





Source: Wadell Engineering Corporation



RUNWAY NUMBER	15 / 33	
	EXISTING	FUTURE
LENGTH	3300'	SAME
APPROACH TYPE	VISUAL	NON-PRECISION
NAVAIDS	PAPI	SAME
APPROACH SURFACE		
LENGTH	5000'	SAME
SLOPE	20:1	SAME
INNER WIDTH	250'	SAME
OUTER WIDTH	1250'	SAME
RUNWAY PROTECTION ZONE		
INNER WIDTH	250'	SAME
OUTER WIDTH	450'	SAME
LENGTH	1000'	SAME

- NOTES:
- THIS PLAN IS INTENDED TO PRESERVE AND PROTECT FOR AN EXISTING 3300' RUNWAY 15/33 WITH VISUAL APPROACHES ON BOTH ENDS AND SMALL AIRCRAFT ONLY.
 - THERE ARE NO KNOWN PENETRATIONS OF THE HORIZONTAL, TRANSITIONAL OR CONICAL SURFACES.
 - PROFILES REPRESENT A COMPOSITE OF THE HIGHEST TERRAIN IN THE APPROACH SURFACES.
 - INFORMATION SOURCE: CURRENT U.S.G.S. MAPS.
 - AIRPORT ELEVATION IS 385' MSL. AIRPORT REFERENCE POINT COORDINATES (NAD 83) ARE AS FOLLOWS:

	EXISTING	FUTURE
LATITUDE	N 36°-40'-15.60"	SAME
LONGITUDE	W 119°-27'-03.59"	SAME

REEDLEY MUNICIPAL AIRPORT A CITY OF REEDLEY AVIATION FACILITY REEDLEY CALIFORNIA		DRAWING 2 OF 4
APPROACH AND RUNWAY PROTECTION ZONE DRAWING		SCALE AS SHOWN DATE MAR 2005
NO. DATE BY REVISIONS	JOB NUMBER 1314 DRAWING NUMBER 1314-2RPZ	
DRAWN DLH CHECKED DESIGNED RPW		

- Design and construction of 4,790 linear feet of perimeter fencing on the west side of Airport property, including upgrades to existing security gates and construction of an emergency vehicle access gate and staging pad.

TABLE F1
Airport Facilities
Reedley Municipal Airport

Runway 15-33	
RUNWAY	
Length (feet)	3,300
Width (feet)	50
Threshold Displacement (feet)	0
Runway Pavement Surface Material	Asphalt
Runway Pavement Surface Treatment	Not listed
Runway Pavement Condition	Good
Traffic Pattern	Left Right
Runway Pavement Load Bearing Strength (lbs.)	
Single Wheel	30,000
Dual Wheel	N/A
Double Tandem	N/A
Double Dual Tandem	N/A
Runway Pavement Markings	
Type	Basic
Condition	Fair
Runway Lighting	
Runway Edge Lighting	MIRL
Approach Lighting System (ALS)	No
Touchdown Point	Yes (no lights)
Runway End Identifier Lights (REILs)	Yes
VISUAL APPROACH AIDS	
Type	2-Light PAPI on Left
Glide Path	3.00 degrees 4.00 degrees
INSTRUMENT APPROACH AIDS	
Instrument Landing System (ILS)	No
Global Positioning System (GPS)	No
VOR/DME	No

N/A: Not Applicable

MIRL: Medium Intensity Runway Lights

PAPI: Precision Approach Path Indicator

VOR/DME: Very High Frequency Omnidirectional Range Distance Measuring Equipment

Source: AirNav (July 2017)

AIRPORT ENVIRONS

EXISTING LAND USES

Exhibit F5 shows existing land uses in the AIA.

The surrounding land uses are dominated by agricultural uses. There are two sections of Airport property that are being leased: an orchard on the north end of the Airport, east of Runway 15; and a BMX track in the southern corner of Airport property. Great Western Elementary School and some residential land uses are located less than a half mile south of Runway 33. There are also some residences along the eastern Airport property boundary on South Frankwood Avenue.

ZONING

Zoning in the AIA is shown on **Exhibit F6**.

Almost the entirety of the AIA is zoned for agriculture, except for an area zoned for open space in the southwest corner.

GENERAL PLAN

Exhibit F7 shows general plan land uses near the Airport.

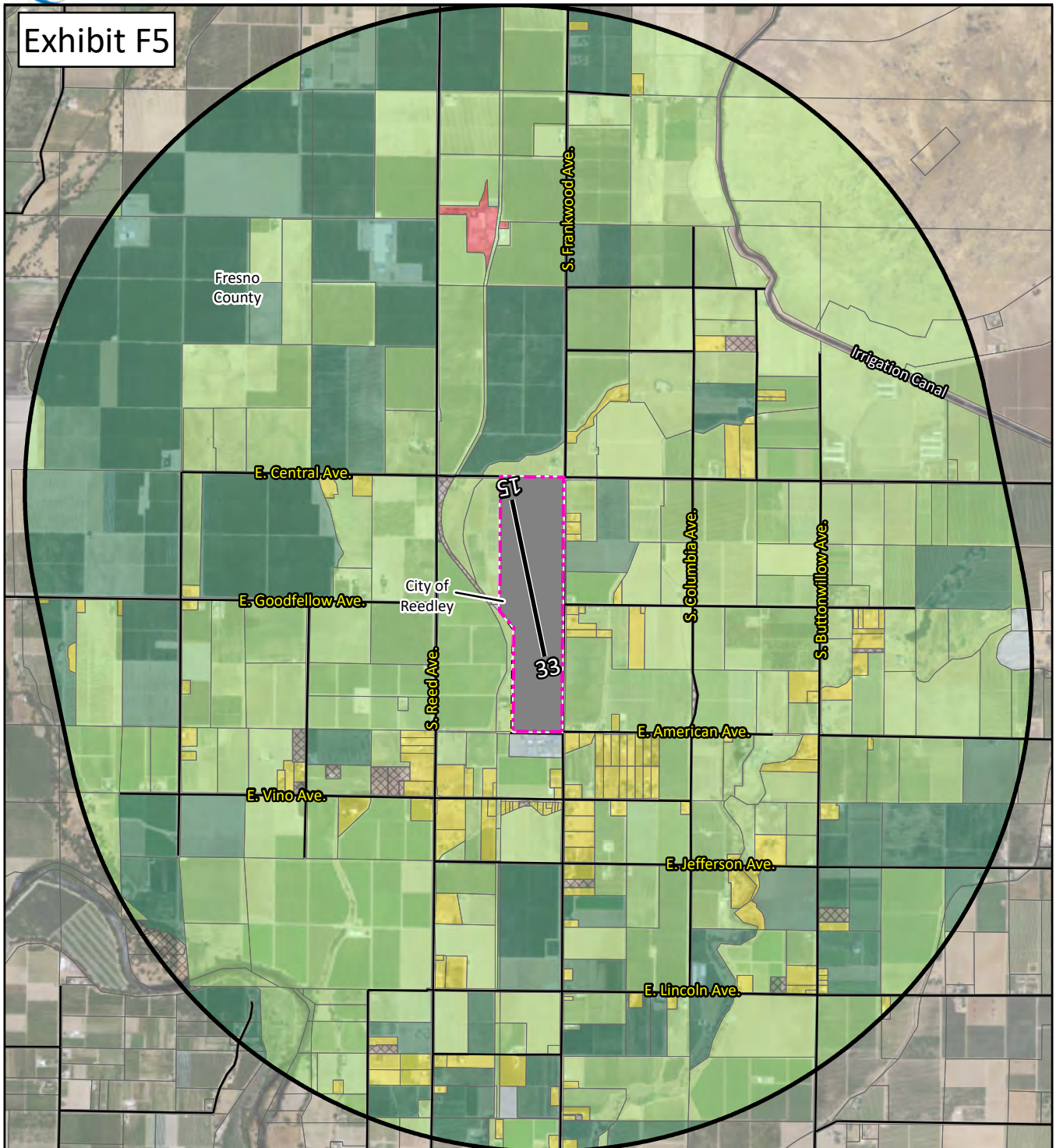
Similar to zoning, the entirety of the AIA is planned for agricultural uses.

COMPATIBILITY FACTORS

Exhibit F8 is a compatibility factors map, which compiles National Transportation Safety Board flight accident data for all airports in the United States, noise exposure contours, and arrival and departure flight tracks from the noise exposure contours. The purpose of this exhibit is to illustrate the methodology behind the shape and size of the safety, noise, and airspace compatibility zones.



Exhibit F5



LEGEND

- Runway¹
- Airport Property¹
- Parcel Boundary
- Municipal Boundary
- Streets
- Airport Influence Area (AIA)²

Existing Land Use³

- Single Family Residential
- Commercial
- Public
- Open Space
- Agricultural
- Vacant



0 3,000 6,000
1" = 3,000'

¹Reedley Municipal Airport Layout Plan (2013).

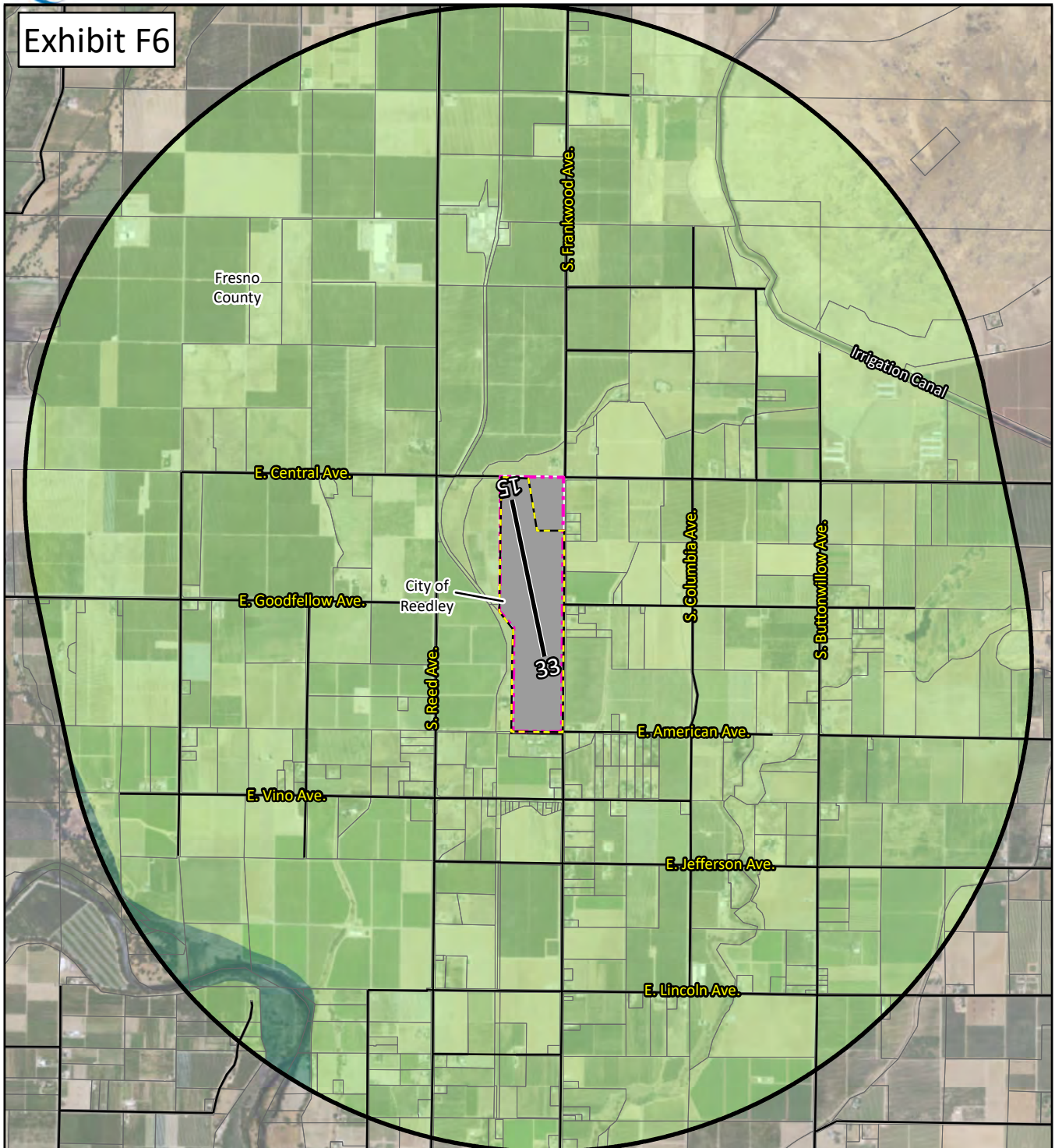
²Part 77 Conical Surface. See 14 CFR, Subchapter E, Part 77, §77.25.

³Fresno Council of Governments.

Sources: Fresno County Parcels, Fresno County Streets, ESRI Basemap Imagery (2016).



Exhibit F6



LEGEND

- Runway¹
- Airport Property¹
- Parcel Boundary
- Municipal Boundary
- Streets
- Airport Influence Area (AIA)²

Zoning³

- Open Space
- Agriculture



0 3,000 6,000
1" = 3,000'

¹Reedley Municipal Airport Layout Plan (2013).
²Part 77 Conical Surface. See 14 CFR, Subchapter E, Part 77, §77.25.
³Fresno County Zoning.
Sources: Fresno County Parcels, Fresno County Streets, ESRI Basemap Imagery (2016).

Exhibit F7

LEGEND

- Runway¹
- Airport Property¹
- Parcel Boundary
- Municipal Boundary
- Streets
- Airport Influence Area (AIA)²

General Plan³

- Agriculture

Map Labels:

- Fresno County
- E. Central Ave.
- E. Goodfellow Ave.
- E. Vino Ave.
- S. Reed Ave.
- City of Reedley
- S. Frankwood Ave.
- S. Columbia Ave.
- S. Buttonwillow Ave.
- E. American Ave.
- E. Jefferson Ave.
- E. Lincoln Ave.
- Irrigation Canal

Scale: 1" = 3,000'

North Arrow: N

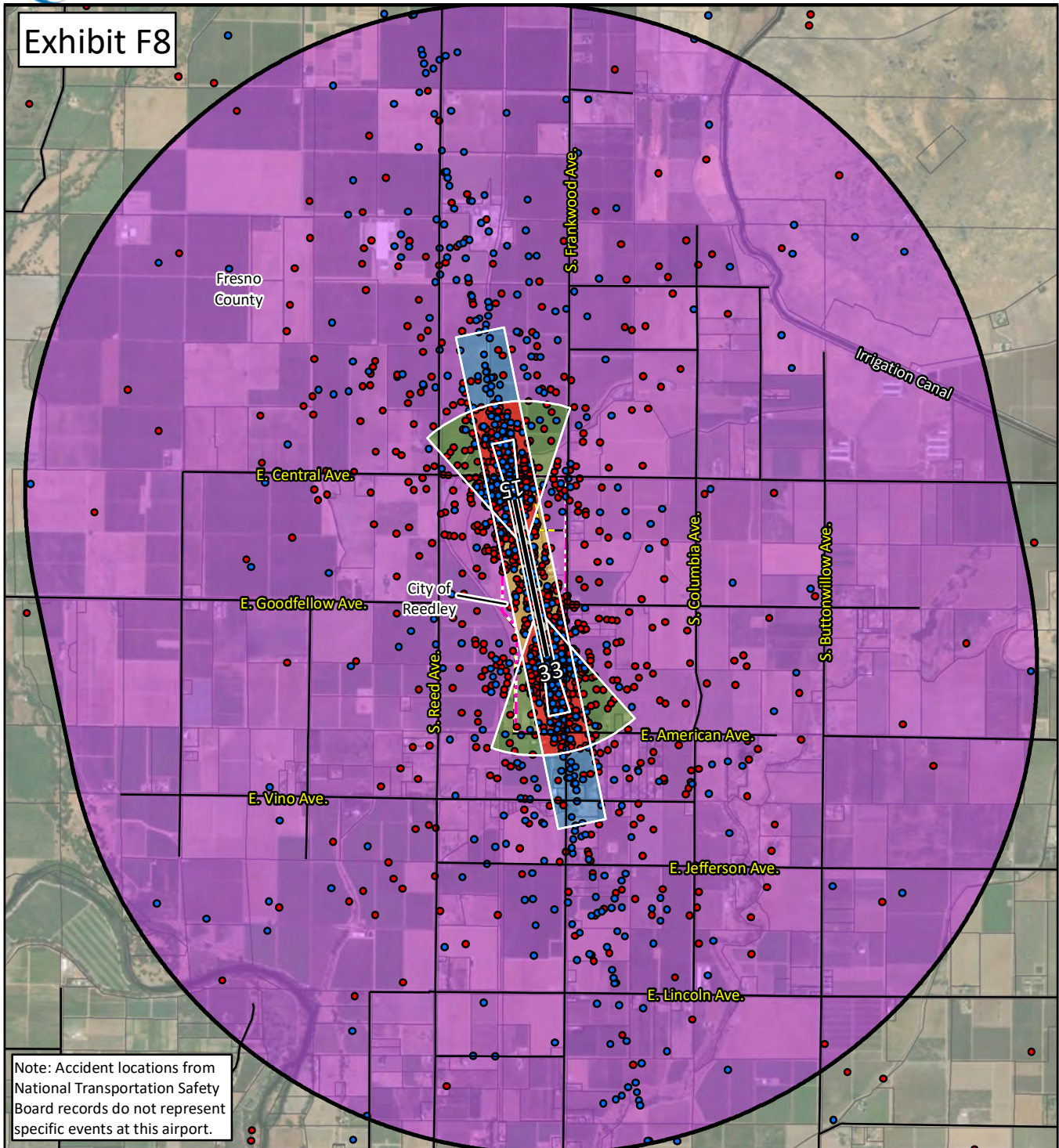
Footnotes:

- ¹Reedley Municipal Airport Layout Plan (2013).
- ²Part 77 Conical Surface. See 14 CFR, Subchapter E, Part 77, §77.25.
- ³Fresno County General Plan.

Sources: Fresno County Parcels, Fresno County Streets, ESRI Basemap Imagery (2016).



Exhibit F8



Note: Accident locations from National Transportation Safety Board records do not represent specific events at this airport.

LEGEND

- | | |
|----------------------------------|---|
| Runway ¹ | Airport Influence Area (AIA) ³ |
| Airport Property ¹ | Safety Zones ⁴ |
| Parcel Boundary | 1. Runway Protection Zone |
| Municipal Boundary | 2. Inner Approach/Departure Zone |
| Streets | 3. Inner Turning Zone |
| Arrival Accidents ² | 4. Outer Approach/Departure Zone |
| Departure Accidents ² | 5. Sideline Zone |
| | 6. Traffic Pattern Zone |



0 3,000 6,000
1" = 3,000'

¹Reedley Municipal Airport Layout Plan (2013).

²California Airport Land Use Planning Handbook, 2011. Normalized from airports in United States.

³Part 77 Conical Surface. See 14 CFR, Subchapter E, Part 77, §77.25.

⁴Figure 3A, California Airport Land Use Planning Handbook (2011), and Coffman Associates Analysis.

Sources: Fresno County Parcels, Fresno County Streets, ESRI Basemap Imagery (2016).