ASSOCIATED TRANSPORTATION ENGINEERS

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TRIP GENERATION ANALYSIS FOR THE PLANES OF FAME AIR MUSEUM PROJECT - CITY OF SANTA MARIA

Associated Transportation Engineers (ATE) has prepared the following trip generation analysis for the Planes of Fame Air Museum Project (the "Project") proposed in the Santa Maria Airport area of the City of Santa Maria. City staff have requested that a trip generation analysis be included as part of the Project's application submittal.

PROJECT DESCRIPTION

The Project site is located within the Santa Maria Airport property adjacent to the Radisson Hotel on the west side of Skyway Drive as shown on Figure 1 (attached). The Project is proposing to construct a 56,000 SF aircraft hanger to be used as an Aviation Museum with approximately 8,750 of area for a lobby, gift shop, restrooms, collection storage and offices. An additional 12,500 SF area will be used for aircraft maintenance. Figure 2 illustrates the Project site plan. The museum will be open to the public Wednesdays – Sundays from 10:00 AM to 4:00 PM with monthly educational lectures, flight demonstrations, a veteran's program and occasional special events.

PROJECT TRIP GENERATION

Trip generation estimates for developments are typically calculated using the rates published in the Institute of Transportation Engineers (ITE) Trip Generation Manual.[1] The ITE manual does not, however, contain rates for uses similar to Planes of Fame Air Museum. Trip generation estimates for the Project were therefore developed based on operational data provided by the applicant for the anticipated weekday staff and visitor levels (operational data attached). The data includes the number of employees, visitors, deliveries, employee schedules, hours of operations, etc. The visitor estimates were developed based on attendance data collected at the existing Planes of Fame Air Museum located in Chino. It is noted that the Chino museum is larger than the proposed Santa Maria museum and is located in an area with significantly higher population levels than Santa Maria. The trip generation estimates developed for the Santa Maria museum based on the Chino attendance data are therefore considered conservative.

Table 1 shows the weekday trip generation estimates developed for the Project based on the operational data.

Table 1
Planes of Fame Air Museum Weekday Trip Generation Estimates

Project Component	Size	Schedule	Trip Generation		
			ADT	AM Peak	PM Peak
Staff(a)	10	9:00 AM – 5:00 PM	26	9	9
Weekday Visitors(b)	57	10:00 AM – 4:00 PM	57	0	0
Deliveries(c)	2	9:00 AM – 5:00 PM	4	0	0
TOTAL			87	9	9

(a) Staff: ADT assumes 1 inbound + 1 outbound trip per employee and 50% of employees leave mid-day. Calculations assume 85% drive rate. Peak hour trips based on employee schedules.
(b) Visitors: ADT assumes 1 inbound + 1 outbound trip and 2.0 visitors per vehicles. Trips are outside of the peak hours.
(c) Deliveries: ADT assumes 1 inbound + 1 outbound trip. Trips are outside of the peak hours.

The data presented in Table 1 indicate that the Project is forecast to generate 87 average daily trips, 9 AM peak hour trips and 9 PM peak hour trips.

[1] Trip Generation Manual, Institute of Transportation Engineers, 11th Edition, 2021.

This concludes ATE's trip generation analysis for the Planes of Fame Air Museum Project.

Associated Transportation Engineers

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Principal Transportation Planner

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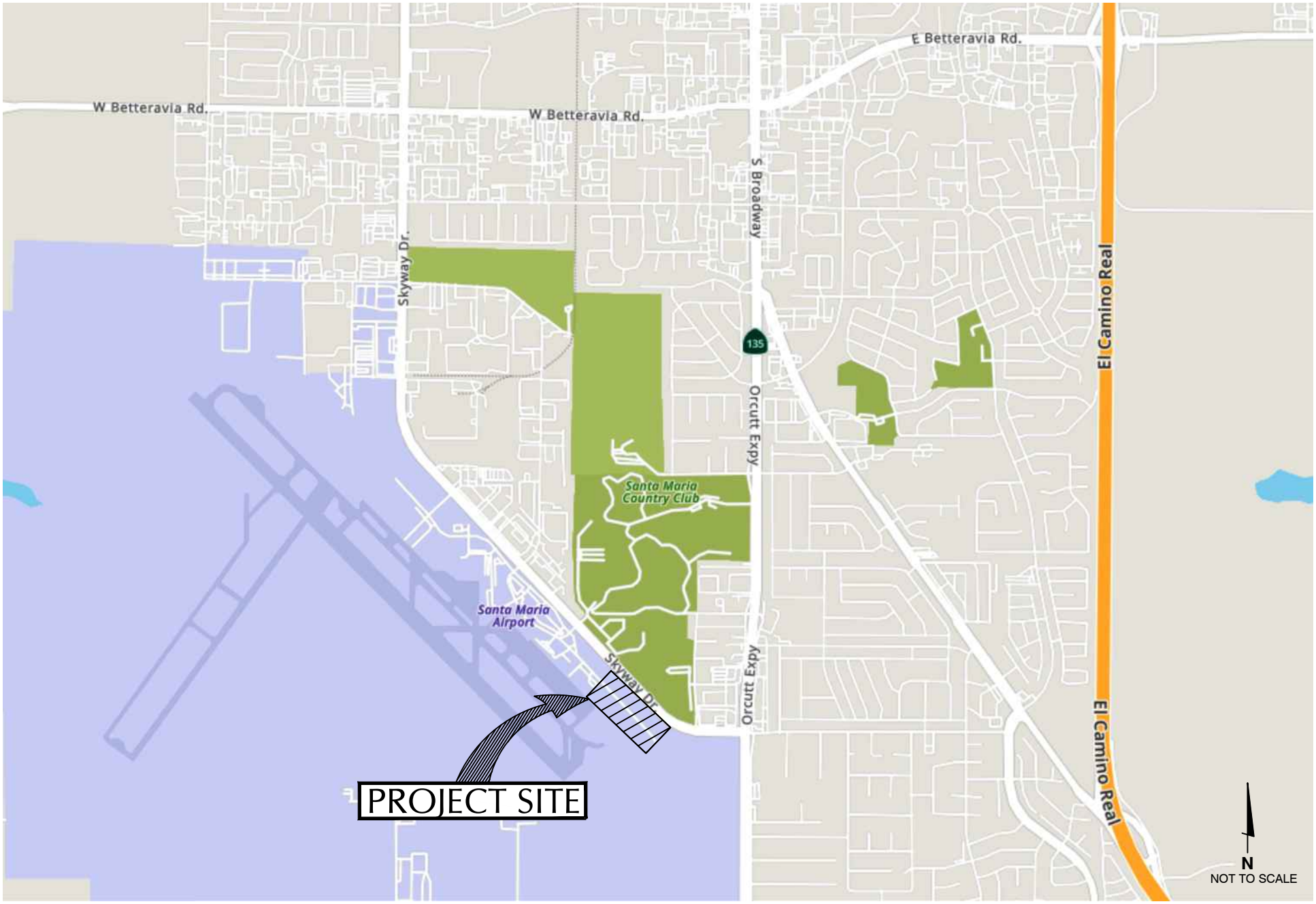
Attachments



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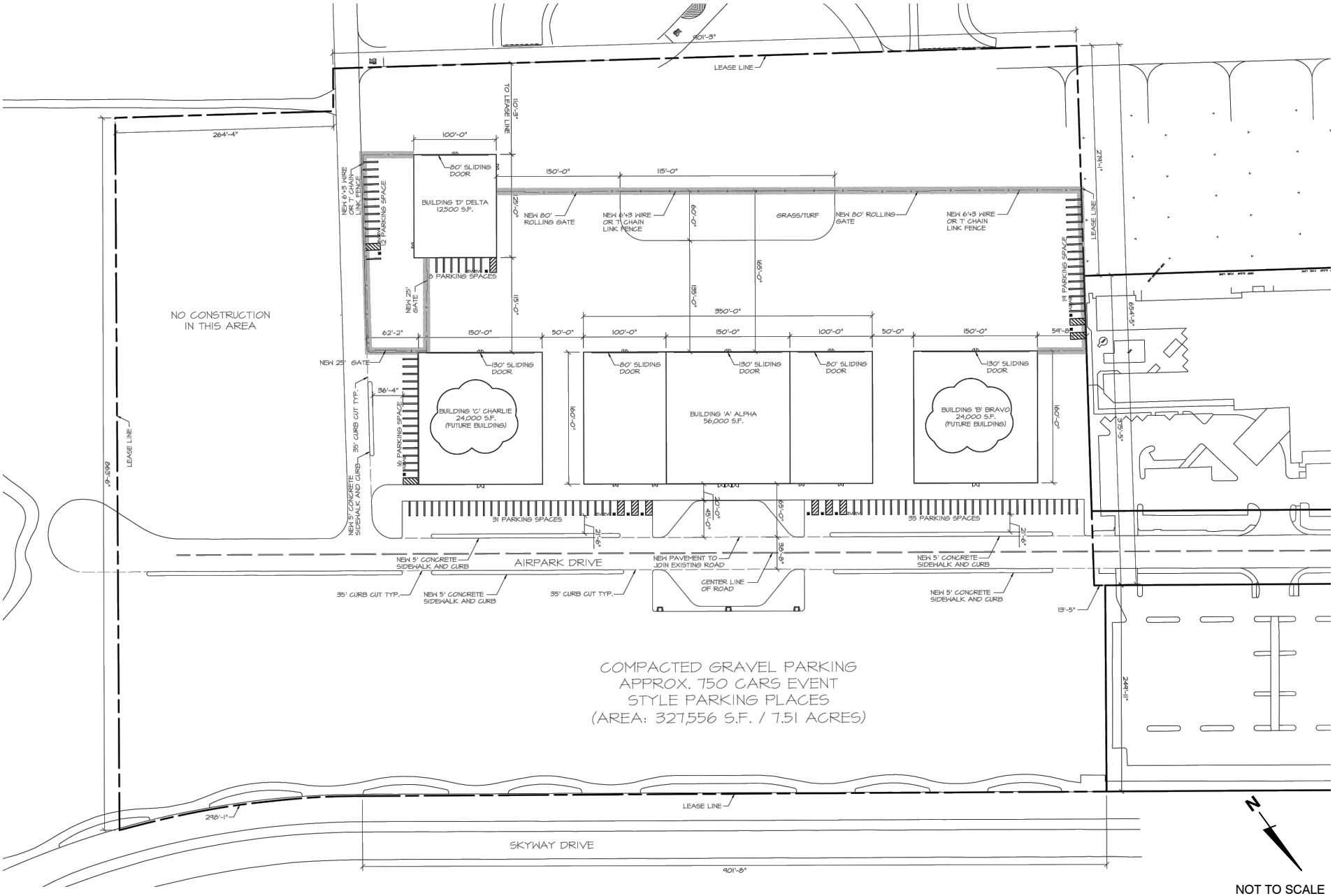
PROJECT SITE LOCATION

FIGURE 1

GM- ATE#23012



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PROJECT SITE PLAN

FIGURE 2

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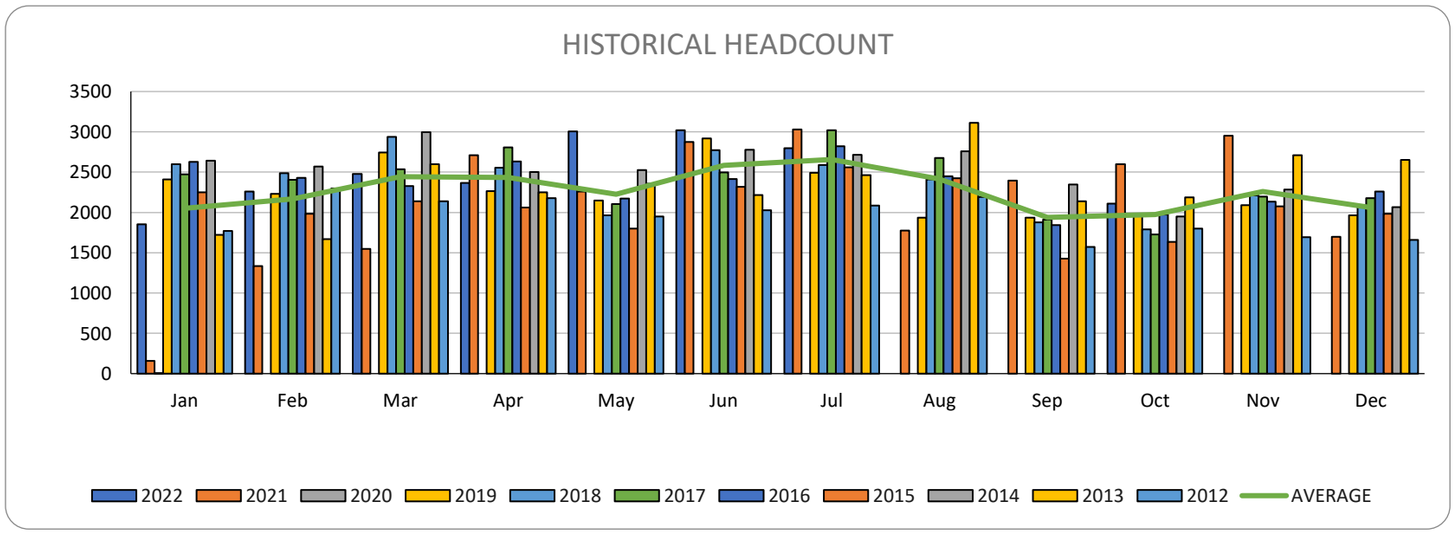
Planes of Fame Air Museum - CHINO - Headcount Data

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL
2022	1854	2259	2477	2364	3004	3021	2799			2110			19888
2021	157	1336	1548	2712	2258	2873	3029	1774	2394	2600	2953	1700	25334
2019	2411	2230	2744	2264	2146	2917	2492	1937	1936	1957	2091	1965	27090
2018	2597	2485	2937	2555	1962	2775	2588	2408	1878	1792	2209	2079	28265
2017	2474	2407	2535	2808	2106	2497	3018	2675	1913	1729	2195	2176	28533
2016	2625	2428	2326	2630	2170	2414	2823	2450	1841	1974	2135	2258	28074
2015	2250	1982	2138	2059	1801	2319	2561	2426	1428	1634	2077	1983	24658
2014	2640	2571	2997	2500	2524	2776	2713	2760	2347	1950	2285	2064	30127
2013	1724	1669	2600	2250	2356	2217	2462	3110	2136	2185	2712	2653	28074
2012	1772	2300	2137	2177	1948	2026	2084	2191	1573	1797	1693	1660	23358
AVERAGE	**2050**	**2167**	**2444**	**2432**	**2228**	**2584**	**2657**	**2415**	**1938**	**1973**	**2261**	**2060**	**27207**



Annual Average Daily Visitors 27207 /365 Days = 75
(Weekday, Weekend, and Events)

Annual Average Weekday Visitors		
Annual Average Visitors	Monthly Average Visitors (a)	Daily Average Visitors (b)
27207	2267	57

(a) Annual Average Visitors / 12 Months
(b) Monthly Average Visitors * 2.51% Visitors per Weekday

Annual Average Weekend Visitors		
Annual Average Visitors	Monthly Average Visitors (a)	Daily Average Visitors (b)
27207	2267	155

(a) Annual Average Visitors / 12 Months
(b) Monthly Average Visitors * 6.85% Visitors per Weekend