

July 2010 Update:

Airport Master Plan

for

**Norman Y. Mineta
San Jose International Airport**

Prepared by

City of San Jose Airport Department

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Airport Master Plan Overview

The Airport Master Plan for San Jose International consists of a program of facility improvements designed to adequately accommodate projected aviation demand (passenger, cargo, and general aviation), with development phased as demand warrants and as determined to be financially feasible.

The current Airport Master Plan was originally adopted by the City of San Jose in June 1997, approved by the Federal Aviation Administration (FAA) in December 1999, and subsequently updated over time through a series of City-approved amendments, with a planning horizon now extending to the year 2027.

The Master Plan development program includes approximately 70 specific improvement projects, more than half of which have been completed to date or are currently underway. Key elements of the development program are:

- Reconstruction and extension of Runways 12L-30R and 12R-30L to their maximum on-site length (11,000 feet), supported by numerous taxiway system improvements.
- Up to 49 air carrier gates provided through construction of new and remodeled terminal buildings to adequately serve a projected demand of 17.6 million annual passengers and 184,000 aircraft operations in 2027, along with garages for public and rental car parking, roadway improvements, and a new jet fuel storage and other expanded support facilities.
- Expanded or new cargo airline and passenger airline belly-cargo facilities on the northeast and southeast sides of the Airport to accommodate projected air cargo demand.
- New or reconfigured general aviation parking and servicing facilities on the west side of the Airport to accommodate projected demand for light and corporate jet aircraft.

The Airport development program also incorporates environmental mitigation measures and other requirements set forth in the City's Airport Master Plan Environmental Impact Report (EIR), the City's Airport Master Plan Implementation Ordinance, and the California Air Resources Board's federal air quality certification for runway improvements. These associated requirements have also been updated over time subsequent to their original issuance.

Summary of Airport Activity Levels

Activity Element	1996 Actual*	2009 Actual*	2027 Projected*
Passengers	10,009,027	8,321,750	17,600,000
Aircraft Operations:			
• Major Airline	125,990	102,774	183,700
• All-Cargo	4,205	2,364	6,800
• General Aviation**	157,685	40,342	73,200
• Military	426	358	100
Total	288,306	145,838	263,800
Cargo Tonnage:			
• All-Cargo Airline	88,529	55,785	164,400
• Airline Belly-Cargo	22,105	3,686	25,300
Total	101,634	59,471	189,700
Based Aircraft**	440	149	209

Summary of Airport Facilities

Facility Element	1996 Actual*	2010 (current)	2027 Projected*
Runway Length (feet):			
• 12R-30L	10,200	11,000	11,000
• 12L-30R	4,400	11,000	11,000
• 11-29	4,600	4,600	4,600
Air Carrier Gates	31	28	40***
Terminal Building (sq.ft.)	408,000	854,000	1,700,000
Vehicle Parking (spaces):			
• Public	7,300	5,700	12,700***
• Employee	1,200	1,100	2,600
• Rental Car Ready/Return	700	2,000	2,000
Jet Fuel Storage (gallons)	208,000	2,000,000	4,000,000
All-Cargo Area (sq.ft.)	300,000	300,000	1,165,100
Belly-Cargo Area (sq.ft.)	85,000	85,000	92,400
General Aviation Area (acres)**	82	52	100

* 1996 = pre-Master Plan. 2009 = most recent full year. 2027 = Master Plan horizon.

** General Aviation demand / facilities constrained in original 1997 Master Plan.

*** Maximum allowed per City's 1998 Airport Master Plan Implementation Ordinance.

Airport Master Plan Project List

Airfield Projects:	Status
A-1. Reconstruct/extend Runway 12L-30R to 11,000 feet.	completed
A-2. Extend parallel Taxiway Y from Twy L to new Twy N and from Twy B to new Twy A.	completed
A-3. Extend/widen parallel Taxiway Z from Twy K to Twy L.	completed
A-4. Construct new cross Taxiway A at south end, east of extended Twy Y to west of extended Rwy 12L-30R, with aircraft hold apron on north side between Twy Y and Rwy 12L-30R.	completed (w/o hold apron)
A-5. Construct new cross Taxiway N at north end, from extended Twy Y to west of extended Rwy 12L-30R.	completed
A-6. Strengthen cross Taxiway C east and west of Rwy 12L-30R.	completed
A-7. Extend cross Taxiway D west of Rwy 12L-30R and strengthen east of 12L-30R.	completed
A-8. Strengthen cross Taxiway E east of Rwy 12L-30R.	completed
A-9. Strengthen cross Taxiway F east and west of Rwy 12L-30R.	completed
A-10. Strengthen cross Taxiway H east and west of Rwy 12L-30R.	completed
A-11. Strengthen cross Taxiway J east and west of extended Rwy 12L-30R.	completed
A-12. Strengthen cross Taxiway K east and west of extended Rwy 12L-30R.	completed
A-13. Strengthen cross Taxiway L from extended Twy Z to west of extended Rwy 12L-30R.	completed
A-14. Reconstruct/extend Runway 12R-30L to 11,000 feet.	completed
A-15. Extend new cross Taxiway A west of extended Rwy 12L-30R to Rwy 12R-30L, with aircraft hold apron on north side between runways.	completed (w/o hold apron)
A-16. Extend new cross Taxiway N west of extended Rwy 12L-30R to extended Twy W, with aircraft hold apron on south side between runways.	part complete (west →12R-30L)
A-17. Extend/widen parallel Taxiway W south from Twy C to Rwy 12R-30L (for D-IV aircraft).	underway
A-18. Strengthen cross Taxiway C west of Rwy 12L-30R to west of Rwy 12R-30L and widen at 12R-30L for higher-speed arrivals exit to east.	completed
A-19. Extend cross Taxiway D west of Rwy 12L-30R to west of Rwy 12R-30L and widen at 12R-30L for higher-speed arrivals exit to east.	completed
A-20. Strengthen cross Taxiway F west of Rwy 12L-30R to Rwy 12R-30L.	completed
A-21. Widen/strengthen cross Taxiway G west of Rwy 12R-30L (for D-IV aircraft).	completed
A-22. Strengthen cross Taxiway H west of Rwy 12L-30R to Rwy 12R-30L.	completed

Airport Master Plan Project List (continued)

Airfield Projects (continued):		Status
A-23.	Strengthen cross Taxiway J west of extended Rwy 12L-30R to west of Rwy 12R-30L and widen at 12R-30L for higher-speed arrivals exit to west.	completed (w/o high speed exit)
A-24.	Strengthen cross Taxiway K west of extended Rwy 12L-30R to Rwy 12R-30L and widen at 12R-30L for higher-speed arrivals exit to east.	completed
A-25.	Strengthen cross Taxiway L west of extended Rwy 12L-30R to Rwy 12R-30L.	completed
A-26.	Widen/strengthen parallel Taxiway V from Twy G north to Twy W (for D-IV aircraft) and patch/restripe south of Twy G (for B-II aircraft).	future
A-27.	Construct cross Taxiway H between Rwy 12R-30L and Twy V (for D-IV aircraft).	future
A-28.	Extend parallel Taxiway Z from Twy B to Twy A, and realign north of Twy G to match alignment south of Twy G.	completed
A-29.	Rehabilitate parallel Taxiway Y between Twy B and Twy L and strengthen at cross taxiways.	completed
A-30.	Construct parallel Taxiway W between Twy C and Twy L (for D-IV aircraft).	underway (C →D complete)
A-31.	Strengthen cross Taxiway C from west of Rwy 12R-30L to Twy W.	completed
A-32.	Extend cross Taxiway D west of Rwy 12R-30L to extended Rwy 11-29 (for D-IV aircraft east of Twy W and for Group III aircraft west of Twy W).	completed
A-33.	Widen/strengthen cross Taxiway G west of Rwy 12R-30L to Twy V (for D-IV aircraft).	future
A-34.	Widen/strengthen cross Taxiway J west of Rwy 12R-30L to Twy V (for D-IV aircraft).	future
A-35.	Rehabilitate terminal apron pavement east of Twy Z between Twy D and Twy G.	completed
A-36.	Rehabilitate Taxiway C between Twy V and Twy W, and Taxiway V between Twy C and Twy D.	part underway (C rehab)
A-37.	Extend Taxiway K between Rwy 12R-30L and Twy V (for D-IV aircraft).	future
Terminal Projects:		Status
T-1.	Construct interim long-term public and employee parking lot (up to 7,400 spaces) on vacant 55 acre site on west side (north and south of Air Traffic Control Tower).	completed (north of ATCT)
T-2.	Remove “Yellow” Long-Term Parking lot and “Green” Long-Term Parking lot, temporarily consolidating long-term public and employee parking on west side (upon completion of Project T-1).	completed
T-3.	Relocate “Red” Hourly Parking lot and existing parking operations facilities to interim sites (in advance of Project T-4).	completed

Airport Master Plan Project List (continued)

Terminal Projects (continued):	Status
T-4. Construct new public short-term parking garage (up to 3,000 spaces) on existing "Red" Hourly Parking lot site opposite new Terminal B.	part complete (350 spaces in rental car garage)
T-5. Construct new " North Concourse " (part of new Terminal B) between existing Terminals A and C, consisting of up to 400,000 sq.ft., 9 air carrier gates, and associated passenger processing facilities.	completed
T-6. Remove former temporary FIS facility from ramp south of Terminal C and remove City office structures at 1311 Airport Blvd.	part complete (FIS removed)
T-7. Relocate/expand employee parking (up to 2,600 spaces) to terminal area parking facilities or to former FMC site on west side of Coleman Ave.	future
T-8. Construct new public long-term parking garage (up to approx. 9,000 spaces) on former interim rental car ready/return parking lot site, including interim surface parking at site prior to garage construction, second 2-lane bridge accessing site from Airport Blvd. and removal of public parking from interim west side lot.	future
T-9. Expand/remodel Terminal A by approx. 50,000 sq.ft. to provide additional passenger departure processing, concession, and support space.	completed
T-10. Install temporary Terminal C passenger processing facility (approx. 25,000 sq.ft.) on east side of existing south wing for interim relocation of terminal functions from existing north wing and baggage claim wing. Upon completion, demolish Terminal C north and baggage claim wings (displaced by Projects T-11 and T-15).	completed (w/o temporary facility)
T-11. Expand North Concourse/Terminal B by up to 200,000 sq.ft. and 4 air carrier gates to south onto site of demolished north wing of Terminal C (upon completion of Project T-10).	completed
T-12. Demolish remainder of Terminal C and temporary passenger processing facility (upon completion of Project T-11 and relocation of airline functions to Terminal A and North Concourse/Terminal B).	underway
T-13. Expand Terminal B (South Concourse) to south onto remainder of demolished Terminal C site, consisting of up to 700,000 sq.ft., 10 air carrier gates, and associated passenger processing facilities (ultimate terminal building total of 40 gates and 1.70 million sq.ft.).	future
T-14. Construct new rental car garage (up to 6,000 spaces, including 2,000 ready/return spaces and vehicle servicing facilities) opposite new Terminal B. Upon completion, remove existing interim rental car ready/return, servicing, and storage facilities.	completed
T-15. Construct terminal area roadway improvements including a realigned/widened Terminal Dr., Airport Blvd./Terminal Dr. connection south of Terminal A, dedicated shuttle lane between Terminal A and new rental car garage opposite new Terminal B, reconfigured Terminal Dr./Airport Blvd. south intersection, and interim public and employee surface parking lots.	underway

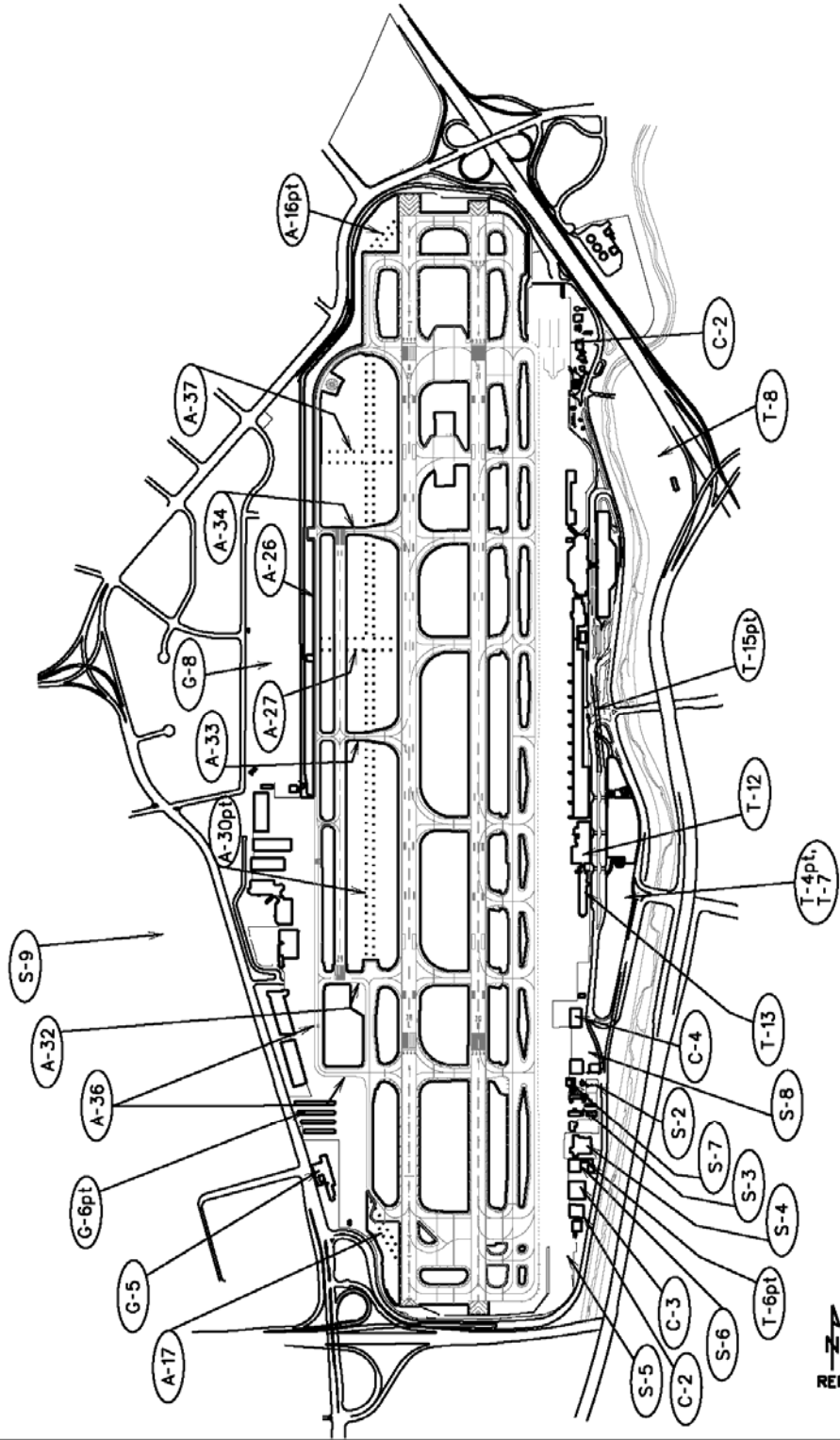
Airport Master Plan Project List (continued)

Air Cargo Projects:	Status
C-1. Construct interim expansion of east side cargo airline area ramp to the south (up to 162,000 sq.ft. of new ramp).	completed
C-2. Construct new cargo airline facilities at or adjacent to existing east side cargo airline areas, including up to 1.2 million sq.ft. of ramp, building, and vehicle parking/movement space.	future
C-3. Relocate/expand belly-freight facilities to new site(s) on east side of Airport, including up to 93,000 sq.ft. of building and vehicle parking/movement space.	future
C-4. Remove existing Air Freight Building and vehicle parking/movement area (displaced by Projects T-13 and T-15).	future
General Aviation Projects:	Status
G-1. Remove south end tiedowns, shelters, and General Aviation Terminal facilities (displaced by Projects A-1, A-2, A-4).	completed
G-2. Remove southeast t-hangar facilities (displaced by Project A-28).	completed
G-3. Remove "94th Aero Squadron" restaurant facility on west side and convert site to general aviation use.	completed
G-4. Remove east side ACM facilities (FBO) upon lease expiration by 2009 (displaced by Project S-8).	completed
G-5. Remove San Jose State University facilities at southwest side upon lease expiration in 2010 and convert site to general aviation use.	future
G-6. Establish new FBO leaseholds on west side for reconfiguration of general aviation facilities.	part complete (AvBase, ACM)
G-7. Construct general aviation facilities on vacant parcel between San Jose Jet Center FBO leasehold and Air Traffic Control Tower.	completed
G-8. Expand general aviation facilities onto northwest side of Airport (44 acres, upon phased implementation of Projects T-7 and T-8).	future
Aviation Support Projects:	Status
S-1. Construct approx. 7-acre fuel storage facility (up to 8 tanks, 4.0 million gallon capacity) on vacant parcel north of Hwy. 101, 2-acre fuel dispensing facility between Terminal A and north end of airfield, and pipeline connecting storage and dispensing.	completed (3 tanks, 2.0 million gal.)
S-2. Remove existing fuel storage and dispensing facilities on southeast side of Airport and clean up site (upon completion of Project S-1).	underway
S-3. Relocate/expand airport maintenance facilities at existing or new sites on east side of Airport.	future
S-4. Expand flight kitchen facilities at existing or new sites on east side of Airport or relocate/expand off-airport.	future

Airport Master Plan Project List (continued)

Aviation Support Projects (continued):	Status
S-5. Relocate/expand airline maintenance/storage facilities at various existing or new sites on east side of Airport.	future
S-6. Remove, relocate, or upgrade existing aviation support facilities on southeast side of Airport (1239-1311 Airport Blvd.) to or at various existing or new east side sites.	future
S-7. Upgrade/expand Airport Rescue & Fire Fighting (ARFF) facility at existing or new site on east side of Airport, potentially including a consolidated Airport Response Center facility.	future
S-8. Convert former east side ACM leasehold to aviation support uses (upon completion of Project G-4), such as airline provisioning/security clearance facility, roadway expansion/interim parking, and aircraft remote parking.	part underway
S-9. Reuse former FMC site on west side of Coleman Ave. for interim or long-term uses to be determined over time to facilitate on-Airport development or operation, such as project construction staging, rental car storage, public or employee parking, support facilities, and compatible non-aviation leaseholds.	part underway (construction staging)

AIRPORT MASTER PLAN
FUTURE IMPROVEMENTS (2010-2027)



REF. 4

Airport Master Plan

Additional Program Components

- **Adoption & Amendment Process Ordinance (1993):**

Set of City requirements and procedures for preparation, adoption, and amendment of the Airport Master Plan. Subsequent to the 1997 adoption of the original Airport Master Plan, a total of 15 amendments have been adopted to date to add, delete, or modify specific development program components.

- **Environmental Impact Report (1997, as supplemented/addended):**

Approx. 30 City mitigation measures, consisting of project-specific or ongoing requirements for Airport development or operational impacts related to traffic, noise, air quality, biological resources, hydrology/water quality, cultural resources, aesthetics, geology, and hazardous materials.

- **Implementation Program Ordinance (1998, as amended):**

Approx. 40 City policies and requirements for Airport development.

- Air carrier gates limited to total of 40 (vs up to 49 in original Master Plan).
- Public parking limited to total of 12,700 spaces (vs up to 16,200 in original Master Plan).
- Implementation of certain Master Plan projects linked to achievement of specified activity levels, operating conditions, or transportation access improvements.
- Additional required studies, reports, and noise control program efforts.

- **State Air Resources Board Air Quality Certification (1999):**

Approx. 25 development or operational conditions imposed as part of required air quality certification for FAA's 1999 approval of Airport Master Plan runway projects.

Airport Master Plan Milestones

- **Preparation of new Airport Master Plan:** 1988 - 1996
 - **Airport Master Plan & EIR adopted by City:** June 1997
 - **Airport Layout Plan & EIS approved by FAA:** December 1999
 - **Airport Master Plan final report published:** December 1999
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- **Runway 12L-30R Reconstruction & Extension Project completed:** August 2001
 - **Airport Master Plan amended to revise Terminal Area development projects:** November 2001
 - **Airport Master Plan Supplemental EIR completed with Master Plan amendment:** January 2003
 - **New terminal construction initiated (“North Concourse” of future Terminal B):** August 2004
 - **Runway 12R-30L Reconstruction & Extension Project completed:** October 2004
 - **Airport Master Plan amended to extend & revise development program objectives & projects:** June 2006
 - **Terminal Area Improvement Program design & construction initiated (including new Terminal B, Terminal A remodel, Terminal C removal, new Rental Car Garage, and roadway upgrades):** January 2007
 - **Major components of Terminal Area Improvement Program completed:** June 2010
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