

NOTICE OF REGULAR MEETING

Pursuant to Section 54954.2 of the Government Code of the State of California, a Regular meeting of the **TRANSPORTATION ADVISORY COMMISSION** is hereby called for:

Date/Time: Thursday, May 11, 2023, 7:00 p.m.
(or as soon thereafter as possible)

Location: Tracy Transit Station, Room 103
50 East 6th Street, Tracy

Government Code Section 54954.3 states that every public meeting shall provide an opportunity for the public to address the Commission on any item, before or during consideration of the item, however, no action shall be taken on any item not on the agenda.

MEETING AGENDA

1. Call to Order
2. Roll Call
3. Items from the Audience – *In accordance with Council Meeting Protocols and Rules of Procedure, adopted by Resolution 2019-240, a five-minute maximum time limit per speaker will apply to all individuals speaking during “Items from the Audience/Public Comment”. For non-agendized items, Commissioners may briefly respond to statements made or questions posed by individuals during public comment; ask questions for clarification; direct the individual to the appropriate staff member; or request that the matter be placed on a future agenda or that staff provide additional information to the Commission.*
4. Approval of Minutes from the Regular Meeting on April 13, 2023.
5. New Business
 - a. Receive Presentation on Airport Master Plan and Provide Input on Deficiencies Within the Airport and Proposed Resolution
 - b. Review and Provide Updates on Commission Goals and Objectives for FY22/23
6. Items from the Commission
7. Items from Staff
 - a. Airport Projects Update
 - b. Transit Ridership and Performance Update
 - c. Bikeways Update
8. Adjournment

POSTED: May 8, 2023

The City of Tracy complies with the Americans with Disabilities Act and makes all reasonable accommodations for the disabled to participate in public meetings. Persons requiring assistance or auxiliary aids in order to participate should call City Hall at (209) 831-6000 at least 24 hours prior to the meeting.

Any materials distributed to the majority of the Transportation Advisory Commission regarding any item on this agenda will be made available for public inspection at City Hall located at 333 Civic Center Plaza, Tracy, during normal business hours.

APRIL 13, 2023

1. **CALL TO ORDER:** Commissioner Silva called the meeting to order at 7:00 p.m.
2. **ROLL CALL:**
 - a. **Present:** Rajpal Dhillon, Sharanjit Dhillon, Tim Silva
 - b. **Absent:** Gary Cooper, Maurice Francis
 - c. **Staff Present:** Adriana Castaneda, Director of Mobility and Housing; Ed Lovell, Transit Manager; Diana Silveira, Executive Assistant; Brandi Reybol, Transit Coordinator; Jayne Pramod, Transit Coordinator
 - d. **Recorded By:** Jayne Pramod; Transit Coordinator
3. **ITEMS FROM THE AUDIENCE:** None
4. **APPROVAL OF SPECIAL MEETING MINUTES OF MARCH 23, 2023**
 - a) **Motion to Approve:** Commissioner S. Dhillon
 - b) **Second:** Commissioner Silva
 - c) **Abstain:** Commissioner R. Dhillon
 - d) **Vote:** Approved by unanimous vote
5. **NEW BUSINESS:**
 - a. **Review and Provide Input on Draft Zero-Emission Bus Rollout Plan**

Ed Lovell, Transit Manager, presented a draft of the TRACER Zero-Emission Bus (ZEB) Rollout Plan required per the Innovative Clean Transit (ICT) regulation, overseen by the California Air Resources Board (CARB) before ZEB purchase requirements become effective. Staff answered Commission questions on the existing vehicle, fueling system, new technology, and the funding source for the infrastructure and maintenance of ZEB.
 - b. **Receive an Update on the 2023 International Aerobatics Competition Held at Tracy Municipal Airport:** Paula Jessup, Airport Manager, provided information and status of the Tracy Airport Event on June 2nd and 3rd, showcasing the 2023 International Aerobatics Competition (IAC). Commission questions and comments followed.
 - c. **Review and Provide Updates on Commission Goals and Objectives for FY22/23**

Staff provided information on various City events and Tracy Earth Day on April 29, 2023, for Commission outreach. Provided information on the Short-Range Transit Plan (SRTP), Fare policy for Student Free Ride and Monthly Pass, and updates on the Airport Master Plan. Commission questions and comments followed. Dotty Nygard, Tracy referred to National Earth Day on April 22nd, provided an outline of events, and encouraged community participation. She requested staff for updates on bikeway projects.
6. **ITEMS FROM THE COMMISSION:**

Commissioner S. Dhillon: Commented in support of Commission participation at the events and suggested more opportunities for outreach.

Commissioner Silva: Suggested marketing the airport event and advertising to neighboring cities.

Commissioner R. Dhillon: Referred to the IAC event and asked if the airport is open during the event for business and if access is provided to all planes.

7. ITEMS FROM STAFF:

- a. Airport Projects Update:** Airport Manager could not attend the meeting; Commission was informed to email the Airport Manager if they have questions or concerns regarding the airport projects.
- b. Transit Ridership and Performance Update:** Ed Lovell, Transit Manager, provided updates on ridership, On-Time Performance, and reopening of the Transit Station after the renovation. Commission questions and comments followed.
- c. Bikeways Update:** New bikeway map will be available soon. The Commission addressed concerns about bike-safe paths, narrow streets with no bike lanes, and no display of share-the-road signs to encourage bike safety.

8. ITEMS FROM THE AUDIENCE: None

9. ADJOURNMENT TO NEXT REGULAR MEETING ON MAY 11, 2023

- a. Motion to Adjourn:** Commissioner R. Dhillon
- b. Second:** Commissioner S. Dhillon
- c. Vote:** Approved by unanimous vote
- d. Time:** 8:00 p.m.

The above agenda was posted at Tracy City Hall on April 10, 2023. The above are action minutes. A full recording of the meeting is available by contacting the City Clerk's Office.

Ed Lovell, Staff Liaison

**CITY OF TRACY
TRANSPORTATION ADVISORY COMMISSION
May 11, 2023**

AGENDA ITEM 5.a.

REQUEST

RECEIVE PRESENTATION ON AIRPORT MASTER PLAN AND PROVIDE INPUT ON DEFICIENCIES WITHIN THE AIRPORT AND PROPOSED RESOLUTION

DISCUSSION

Introduction

In April 2020, the City retained engineering consulting services with Brandley Engineering for the preparation of the City of Tracy Municipal Airport Master Plan Update to ensure that the airport continues to meet the needs of its users. The Federal Aviation Administration (FAA) requires Airport Sponsors to update their master plan every ten to twenty years.

Master Plan Update

The Federal Aviation Administration (FAA) requires Airport Sponsors to update their master plan every ten to twenty years. A Master Plan Update includes analysis of aviation forecasts (defining demands on the airport), analysis of the airport's ability to meet the current and future demand and areas of deficiencies, alternatives analysis to resolve the deficiencies and an accompanying development plan. This process is broken down into following three components:

- Obstruction Survey with Mitigation,
- Master Plan Narrative Report, and
- Airport Layout Plan (ALP) drawing set.

Obstruction Survey with Mitigation

The Obstruction Survey with Mitigation will illustrate to the airport and FAA potential obstructions near the airport. This provides the airport information required to develop proposed mitigation and is essential to FAA Flight Services in updating published flight procedures for Tracy Municipal Airport to enhance airport safety. In the spring of 2021, Woolpert & Associates completed a ground and aerial survey of the surrounding area of the airport for the Obstruction Survey portion of the Master Plan update. The information was submitted to the FAA and approved later that year. Brandley Engineering has evaluated all possible obstructions designated by the Obstruction Survey and will create an Obstruction Mitigation Plan to be added to the Master Plan Narrative at time of submittal.

A summary of the steps involved in the Obstruction Survey and Mitigation Report and the status of each step is included below.

Task to be completed	Estimated Completion Date	Completion Date	FAA Approval Date	Next Step
Obstruction Survey- via ground/air	Spring, 2021	Spring, 2021	June, 2021	Complete Obstruction Mitigation Report
Complete Obstruction Mitigation Report	July, 2023			Conditional Acceptance by FAA

Master Plan Narrative Report

The Master Plan Narrative Report (Narrative) develops a plan for how the airport infrastructure will meet the future projected demands. This starts with an evaluation of future demands through the Aviation Forecasts. The Facility Requirements analysis evaluates the Airport’s ability of existing facilities to meet the current and future demand based on the Aviation Forecast. The outcome of the Facility Requirements analysis is a list of deficiencies to be addressed in the Master Plan. The Alternatives Development and Evaluation considers various methods to resolve each deficiency and recommends proposed resolutions. Finally, a detailed Development Plan is created detailing the proposed future projects and project timeline complete with financial analysis. Within this section, public comment is important for the City to document the expressed current or future needs of both the residential and the airport community regarding the airport.

- Aviation Forecast - This portion of the Narrative details the current and projected quantity of flights in and out of Tracy Municipal Airport, the type of aircraft, and the size of the aircraft. This is broken down into three categories serviced: helicopter, general aviation, and advanced air mobility aircraft. From this information, the critical aircraft is defined and approved by the FAA. Critical aircraft is defined by the FAA as the most demanding aircraft type or grouping of aircraft with similar characteristics that make regular use of the airport. It is typically the largest type of aircraft with an adequate number of flights in and out of Tracy Municipal Airport. Critical Aircraft defines the FAA design standards to which all Tracy Municipal Airport facilities must meet. The Aviation Forecast is essential because it provides critical information on future demand, and the essential justification to support proposed future development. On February 1, 2023, after many discussions with the FAA, the Aviation Forecasts including critical aircraft for Tracy Municipal Airport were approved by the FAA. A summary of the Aviation Forecast and Critical Aircrafts will be presented at the TAC meeting.
- Facility Requirements – This portion of the narrative includes an evaluation of each component of the airport (runway, taxiway, aircraft parking apron, hangars, access roads, parking lots, navigation aids, fueling facilities, drainage, utilities etc.) and its ability to meet FAA design standards as well as the future aviation demands based on the Aviation Forecasts. The outcome of this section of the narrative is a list of deficiencies and required improvements and/or expansions of airport facilities. Table 1 attached, provides a detailed list of the facility requirement analysis and outcome for each airport component.
- Alternatives Development and Evaluation – This portion of the narrative includes analysis of various alternatives to correct the identified deficiencies and selection of

the optimal location, layout and/or corrective action for the main airport components. The outcome is presented on the Airport Layout Plan detailing the location, configuration, and requirements for proposed future airport development.

- Development Plan – This portion of the narrative includes development of a listing of future projects required to correct all deficiencies and prioritization of these projects into a logical timeline that will meet the Airport’s needs in a manner that accommodates the City and FAA budgets. The key component of this component of the narrative is finding a balance between maintaining the existing infrastructure, correcting items that do not meet current FAA standards and planning required future infrastructure expansion. The outcome is a detailed scope and timeline of future projects complete with cost estimates and proposed funding sources.

A summary of the steps involved in the Master Plan Narrative Report and the status of each step is included below.

Task to be completed	Estimated Completion Date	Completion Date	FAA Approval Date	Next Step
Complete – Aviation Forecast	Fall, 2023	2/1/2023	2/1/2023	Complete Facility Requirements
Facility Requirements	Feb. 2023	Feb. 2023	Est June 2023	Complete Alternatives Analysis
Alternatives Analysis	May 2023	In Progress (80% complete)	Est June 2023	Complete Development Plan
Development Plan	June 2023	In Progress (15% Complete)	Est June 2023	Finalize Narrative Report
Complete Remaining Master Plan Narrative	June, 2023	In Progress	Est June 2023	Conditional Acceptance by FAA

Airport Layout Plan (ALP)

The Airport Layout Plan is a set of drawings detailing the existing airport facilities, existing and future FAA design standards, and future planned airport facilities for the next ten to twenty years. The Airport Layout Plan is a set of drawings approximately thirteen pages in length. This consists of an overall airport layout plan, larger scale terminal plans, data tables, large scale approach, and departure plans for each runway end, known obstructions maps, and the Exhibit A Airport Property Map. The overall airport layout plan sheet and larger scale terminal plans typically illustrate the projects the airport wishes to complete in the next five, ten and twenty years. To be considered for an FAA grant, the project must be shown on the FAA Approved overall airport layout plan sheet. Exhibit A Property Map is essential to document ownership of airport property and define FAA jurisdiction over said property. Staff and Brandley Engineering, the airport consultant, have been extensively working on the ALP drawing set this past year. The ALP drawing set will be presented at the TAC meeting with an emphasis on explaining the process of alternatives analysis for each proposed future development and resulting recommended location and layout. A summary of the steps involved in the ALP drawing set and the status of each step is included below.

Task to be completed	Estimated Completion Date	Completion Date	FAA Approval Date	Next Step
Complete Airport Layout Plan-Future projects	January, 2023	In Progress (95% complete)		Conditional Acceptance by FAA
Complete Exhibit A - Property Map	January, 2023	In Progress (95% complete)		Conditional Acceptance by FAA
Complete Remaining Drawings	June, 2023	In Progress (95% Complete)		Conditional Acceptance by FAA

Next Steps

The City will hold a stakeholder workshop focusing on the airport users prior to finalizing the Master Plan Update. At that time, stakeholders will have the opportunity to provide their recommendations to staff. The summary of these recommendations will be presented to the Transportation Advisory Commission at a later date for additional comment.

Stakeholder and TAC comments will be incorporated into the Master Plan documents. The Master Plan documents will then be finalized, a detailed quality control evaluation will be done to correct any errors or inconsistencies and the final documents will be submitted to the FAA for review. Any FAA comments will be addressed and required revisions to the Master Plan documents will be made and the final Master Plan documents will be submitted to the FAA for approval.

Action

City staff would like to solicit feedback from the Transportation Advisory Commission on the deficiencies identified at airport and proposed resolutions to cure those deficiencies based on the required FAA Airport Master Plan Update, per Table 1 attached

FISCAL IMPACT

There is no fiscal impact to the General Fund or Airport Fund for this item at this time.

RECOMMENDED ACTION

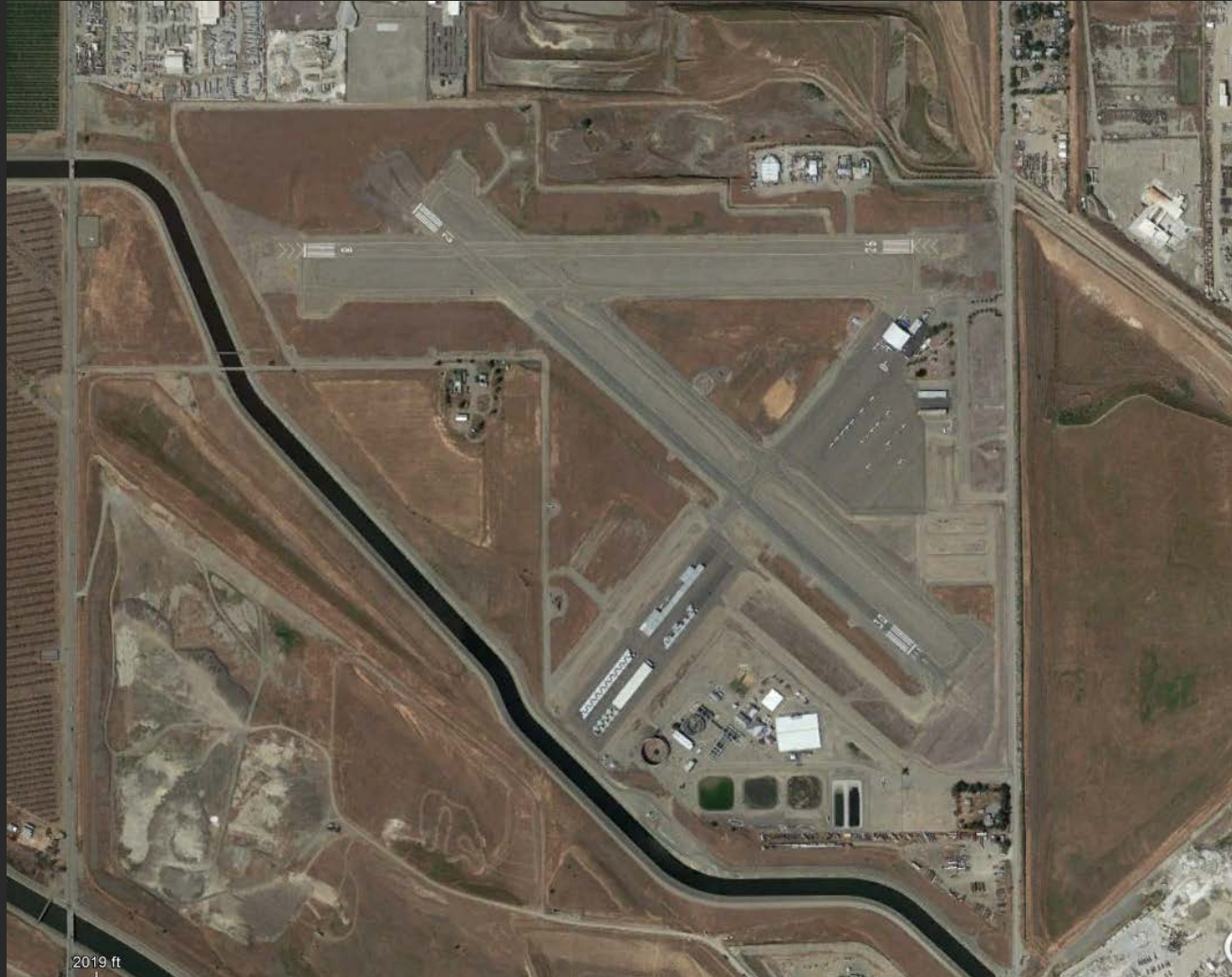
That the Commission provide feedback on the deficiencies identified at airport and proposed resolutions to cure those deficiencies based the required FAA Airport Master Plan Update, per Table 1 attached .

- Attachments: Tracy Municipal Airport - Master Plan Update **Table 1**
 Tracy Municipal Airport - Master Plan Update PowerPoint Presentation

Table 1				
Facility Requirement Summary				
Tracy Municipal Airport				
Airport Feature	Adequate	Deficient	FAA Requirement	Proposed Resolution
FAA Facility Requirements				
Runway Orientation	✓ (13 knots)	✓ (10.5 knots)	95% Wind Coverage	Realignment of runways to improve wind coverage is not feasible due to importance of maintaining adequate runway length, mitigation of deficient wind coverage with increased runway width is provided
Runway 12-30 Line of Sight	✓			
Runway 12-30 Designation	✓			
Runway 12-30 Length	✓ (existing)	✓ (future)	B-II = 4,800 ft (dry), 5,500 ft. (wet)	Runway extension is not feasible due to proximity of existing obstructions beyond each runway end
Runway 12-30 Width	✓			
Runway 12-30 Shoulders	✓			
Runway 12-30 Runway Safety Area Compliance	✓			
Runway 12-30 Object Free Area Compliance	✓ (existing)	✓ (future)	B-II OFA Width = 500'	Acquire land or easement and relocate portion of fence adjacent to Runway 12-30
Runway 12-30 to Taxiway Separation	✓			
Runway 8-26 Line of Sight	✓			
Runway 8-26 Designation	✓			
Runway 8-26 Length	✓ (existing)	✓ (future)	B-II = 4,800 ft (dry), 5,500 ft. (wet)	Runway extension is not feasible due to proximity of existing obstructions beyond each runway end
Runway 8-26 Width	✓			
Runway 8-26 Shoulders	✓			
Runway 8-26 Runway Safety Area Compliance	✓			
Runway 8-26 Object Free Area Compliance	✓			
Runway 8-26 to Taxiway Separation	✓			
Taxiway Width	✓			
Taxiway Fillets	✓			
Taxiway Shoulders	✓ (existing)	✓ (future)	TDG 2 width = 15 ft.	Widen shoulders to 15' when airport is upgraded to TDG 2
Taxiway Safety Area Compliance	✓			
Taxiway Object Free Area Compliance	✓			
Taxiway to taxiway/taxiway	✓			
Taxiway System Configuration		✓	No Direct Access from Hangar/Apron to Runway	Reconfigure Taxiway D and Apron Taxiway/Taxiway B intersection and paint an island at intersection of Taxiway A and Apron Taxiway to eliminate direct access
Airfield Marking	✓			Some modifications to taxiway markings are necessary to address direct access issues
Airfield Lighting		✓	Taxiway Lighting is recommended	Install Taxiway Edge Lighting to improve taxiing operations during night Upgrade runway lighting to LED when lights exceed their useful life
Airfield Signage	✓			Upgrade signs to LED when signs exceed their useful life
Weather Facilities Automated Weather Observation System (AWOS)	✓			Relocate AWOS to 1,000 - 3,000 feet from primary threshold when AWOS exceed its useful life
Airfield Pavement		✓	Pavement Condition	Reconstruct North Hangar Area (H1) Rehabilitate South Hangar Access Road (Road E) Crack Seal, Seal Coat Access Roads, parking lot, future hangar taxiways and Taxiway C Maintain current PMMP
FAA Airspace Requirements				
Approach Lights/Navigation Aids	✓	✓	All objects shall be clear of Runway Object Free Area	Relocate Runway 26 windcone outside ROFA Add lighting to Runway 26 & 30 supplemental windcones Add new supplemental windcone to Runway 8 and 12
Approaches	✓			
Tower Requirements	✓			
Obstruction Surfaces		✓	Objects shall not penetrate various airport surfaces	Mitigate Obstructions
Runway Protection Zone	✓			

Table 1				
Facility Requirement Summary				
Tracy Municipal Airport				
Airport Feature	Adequate	Deficient	FAA Requirement	Proposed Resolution
General Aviation Facility Requirements				
Aircraft Parking Aprons	✓ (existing)	✓ (future)		Expand GA Apron in the long term future Add electric aircraft charging stations
Helicopter Parking Aprons		✓		Construct separate helicopter parking apron with 6 parking spaces
AAM/eVTOL Facilities		✓		Construct new eVTOL Vertiport and eVTOL parking and hangars
Fixed Based Operator (FBO) Services		✓		Expand Skyview Aviation SASO building and add additional flight school building Plan second FBO/SASO for long term future
Hangars		✓		Construct new hangars to accommodate at least 37 additional hangars
Support Facilities				
Fueling Facilities	✓ (existing)	✓ (future)		Add additional 100LL and Jet A dispenser in future
Aircraft Wash Rack		✓		Construct new wash rack
Airport Maintenance Facilities	✓			
General Aviation Terminal Facilities		✓		Construct a new 2,810 - 4,610 Sq. Ft. General Aviation Terminal Building
Ground Access and Parking Facilities				
Access Roads	✓			Recommend City rehabilitate South Tracy Boulevard
Automobile Parking	✓	✓		Plan additional parking for future terminal building and eVTOL facilities
Perimeter Fencing and Security Requirements				
Perimeter Fencing		✓		Install new 6' fence adjacent to through the fence operation Replace 4' fence with new 6' fence Replace existing wrought iron gate with automatic gate
Security	✓ (existing)	✓ (future)		Upgrade existing automatic gates to add card reader Add knox boxes to existing gates Install security camera system
Drainage and Utilities				
Drainage		✓		Construct new ditch north of Runway 8-26
Utilities		✓		
Land Ownership and Easements				
Land Ownership	✓ (existing)	✓ (future)		Acquire land or easement for land required to relocate existing fence that is obstruction to future B-II OFA
Easements		✓		Acquire land or easement for land required to relocate existing fence that is obstruction to future B-II OFA Acquire easement for offsite utilities

TRACY MUNICIPAL AIRPORT



Airport Master Plan Update

Presentation

May 11, 2023



Melissa Brandley, P.E.

Principal, Owner, Brandley Engineering

TRACY MUNICIPAL AIRPORT

Airport Master Plan Update

Scope of Airport Master Plan Update

- Airport Geospatial Information Survey (AGIS) & Obstruction Analysis
- Master Plan Narrative Report
- Airport Layout Plan Set

TRACY MUNICIPAL AIRPORT

Airport Master Plan Update

Obstruction Survey with Mitigation

- Conduct AGIS Obstruction Survey
- Upload Survey Data to FAA Online Portal
- FAA Approval of Survey Data
- Obstruction Analysis & Development of Mitigation Plan
- Many different FAA Aeronautical Surfaces
- Obstructions Identified Include Light Poles, Vehicles on Roadways, Trees etc.
- Mitigation Measures include – Mitigated by PAPI, Add Obstruction Light, Remove or Lower, Height Restrictions, Relocate

TRACY MUNICIPAL AIRPORT

Airport Master Plan Update

Aviation Forecast – Critical Aircraft

Table 3-1						
Forecast of Based Aircraft Using Population Regression Analysis						
Forecast	Number of Based Aircraft					Growth Rate
	2021	2025	2030	2035	2040	
FAA Terminal Area Forecast	109	113	118	123	128	0.92%
FAA Terminal Area Forecast Adjusted*	85	89	94	99	104	1.18%
County of San Joaquin Population Regression Analysis	85	89	94	98	101	1.00%
City of Tracy Population Regression Analysis	85	93	100	107	113	1.71%
Tracy Census County Subdivision Population Regression Analysis	85	98	110	121	131	2.87%
Airport Forecast	85	92	102	111	120	2.17%

*TAF Adjusted is revised to match the National Based Aircraft Inventory Program and airport records in 2021 & maintain the original TAF projected growth

Table 3-2							
Forecast of Airport Operations Using Population Regression Analysis							
Forecast	Number of Airport Operations						Growth Rate
	2019	2020	2025	2030	2035	2040	
FAA Terminal Area Forecast	58,665	59,064	61,108	63,230	65,431	67,711	0.73%
County of San Joaquin Population Regression Analysis	58,665	59,652	62,298	65,616	68,535	70,972	1.00%
City of Tracy Population Regression Analysis	58,665	59,169	65,179	70,463	74,758	78,984	1.65%
Tracy Census County Subdivision Population Regression Analysis	58,665	63,084	72,748	81,684	89,598	97,463	3.15%
Airport Forecast	58,665	59,579	64,151	68,724	73,296	77,868	1.56%

Table 3-3						
Forecast of Helicopter Operations						
Forecast	Number of Operations					Growth Rate
	2020	2025	2030	2035	2040	
Airport Forecast	210	263	315	368	420	5.00%

Table 3-4		
AAM Operation Forecast		
Tracy Municipal Airport		
Year	AAM Operations	Growth Rate
2026	6,907	1004.4%
2027	76,280	33.8%
2028	102,028	14.0%
2029	116,299	9.2%
2030	126,964	Base Year
2035	155,531	4.5%
2040	171,084	2.0%

TRACY MUNICIPAL AIRPORT

Airport Master Plan Update

Aviation Forecast – Peaking Analysis

Table 3-5			
Peak Month and Day Airport Operation Summary			
Year	Peak Month Operations	Peak Day Operations	Peak Hour Operations
2019	8,096	264	40
2020	8,222	268	40
2025	8,853	289	43
2030	9,484	309	46
2035	10,115	330	49
2040	10,746	350	53
% of Annual Operations	13.8%	0.45%	0.08%

Table 3-7		
Peak Month and Day Helicopter Operation Summary		
Year	Peak Month Operations	Peak Week Operations
2020	27	7
2025	34	9
2030	40	10
% of Annual Operations	12.8%	3.3%

Table 3-8		
Peak Day and Hour AAM Operation Summary		
Year	Peak Day	Peak Hour
2026	24	4
2027	262	39
2028	350	53
2029	399	60
2030	436	65
2035	534	80
2040	588	88
% of Annual Operations	0.34%	0.05%

TRACY MUNICIPAL AIRPORT

Airport Master Plan Update

Aviation Forecast – Critical Aircraft

Table 3-9 FAA Criteria for Aircraft Approach Category (AAC) Determination	
AAC	V _{REF} / Approach Speed
A	Approach Speed Less than 91 Knots
B	Approach Speed 91 Knots or More But Less Than 121 Knots
C	Approach Speed 121 Knots or More But Less Than 141 Knots
D	Approach Speed 141 Knots or More But Less Than 166 Knots
E	Approach Speed 166 Knots or More

Table No. 3-11 Tracy Municipal Airport - Critical Aircraft Determination Summary (Annual Operations)						
FAA TFMSC AAC	Annual Operations					
	2016	2017	2018	2019	2020	2021 (Jan-June only)
A	574	688	1002	1000	1015	402
B	23	29	23	31	108	49
C	0	0	0	1	0	0
D	0	0	0	0	0	0
No Data	15	15	21	11	22	13

Table 3-10 FAA Criteria for Airplane Design Group (ADG) Determination		
ADG	Tail Height (ft)	Wingspan (ft)
I	< 20'	< 49'
II	20' - < 30'	49' - < 79'
III	30' - < 45'	79' - < 118'
IV	45' - < 60'	118' - < 171'
V	60' - < 66'	171' - < 214'
VI	66' - < 80'	214' - < 262'

FAA TFMSC ADG	Annual Operations					
	2016	2017	2018	2019	2020	2021 (Jan-June only)
I	577	669	983	996	1007	412
II	19	48	41	35	116	39
III	1	0	1	0	0	0
IV	0	0	0	1	0	0
V	0	0	0	0	0	0
VI	0	0	0	0	0	0
No Data	15	15	21	11	22	13

TRACY MUNICIPAL AIRPORT

Airport Master Plan Update

Aviation Forecast – Critical Aircraft



Existing Critical Aircraft
Cessna Skyhawk 172



Future Critical Aircraft
Cessna Citation CJ2



Critical Helicopter
Black Hawk UH 60A



Critical AAM Aircraft
Lilium Jet

TRACY MUNICIPAL AIRPORT

Airport Master Plan Update

Facility Requirements

Table 1				
Facility Requirement Summary				
Tracy Municipal Airport				
Airport Feature	Adequate	Deficient	FAA Requirement	Proposed Resolution
FAA Facility Requirements				
Runway Orientation	✓ (13 knots)	✓ (10.5 knots)	95% Wind Coverage	Realignment of runways to improve wind coverage is not feasible due to importance of maintaining adequate runway length, mitigation of deficient wind coverage with increased runway width is provided
Runway 12-30 Line of Sight	✓			
Runway 12-30 Designation	✓			
Runway 12-30 Length	✓ (existing)	✓ (future)	B-II = 4,800 ft (dry), 5,500 ft. (wet)	Runway extension is not feasible due to proximity of existing obstructions beyond each runway end
Runway 12-30 Width	✓			
Runway 12-30 Shoulders	✓			
Runway 12-30 Runway Safety Area Compliance	✓			
Runway 12-30 Object Free Area Compliance	✓ (existing)	✓ (future)	B-II OFA Width = 500'	Acquire land or easement and relocate portion of fence adjacent to Runway 12-30
Runway 12-30 to Taxiway Separation	✓			
Runway 8-26 Line of Sight	✓			
Runway 8-26 Designation	✓			
Runway 8-26 Length	✓ (existing)	✓ (future)	B-II = 4,800 ft (dry), 5,500 ft. (wet)	Runway extension is not feasible due to proximity of existing obstructions beyond each runway end
Runway 8-26 Width	✓			
Runway 8-26 Shoulders	✓			
Runway 8-26 Runway Safety Area Compliance	✓			
Runway 8-26 Object Free Area Compliance	✓			
Runway 8-26 to Taxiway Separation	✓			

TRACY MUNICIPAL AIRPORT

Airport Master Plan Update

Facility Requirements

Table 1				
Facility Requirement Summary				
Tracy Municipal Airport				
Airport Feature	Adequate	Deficient	FAA Requirement	Proposed Resolution
Taxiway Width	✓			
Taxiway Fillets	✓			
Taxiway Shoulders	✓ (existing)	✓ (future)	TDG 2 width = 15 ft.	Widen shoulders to 15' when airport is upgraded to TDG 2
Taxiway Safety Area Compliance	✓			
Taxiway Object Free Area Compliance	✓			
Taxiway to taxiway/taxiway centerline separation	✓			
Taxiway System Configuration		✓	No Direct Access from Hangar/Apron to Runway	Reconfigure Taxiway D and Apron Taxiway/Taxiway B intersection and paint an island at intersection of Taxiway A and Apron Taxiway to eliminate direct access
Airfield Marking	✓			Some modifications to taxiway markings are necessary to address direct access issues
Airfield Lighting		✓	Taxiway Lighting is recommended	Install Taxiway Edge Lighting to improve taxiing operations during night Upgrade runway lighting to LED when lights exceed their useful life
Airfield Signage	✓			Upgrade signs to LED when signs exceed their useful life
Weather Facilities Automated Weather Observation System (AWOS)	✓			Relocate AWOS to 1,000 - 3,000 feet from primary threshold when AWOS exceed its useful life
Airfield Pavement		✓	Pavement Condition	Reconstruct North Hangar Area (H1) Rehabilitate South Hangar Access Road (Road E) Crack Seal, Seal Coat Access Roads, parking lot, future hangar taxiways and Taxiway C Maintain current PMMP

TRACY MUNICIPAL AIRPORT

Airport Master Plan Update

Facility Requirements

Table 1				
Facility Requirement Summary				
Tracy Municipal Airport				
Airport Feature	Adequate	Deficient	FAA Requirement	Proposed Resolution
FAA Airspace Requirements				
Approach Lights/Navigation Aids	✓	✓	All objects shall be clear of Runway Object Free Area	Relocate Runway 26 windcone outside ROFA Add lighting to Runway 26 & 30 supplemental windcones Add new supplemental windcone to Runway 8 and 12
Approaches	✓			
Tower Requirements	✓			
Obstruction Surfaces		✓	Objects shall not penetrate various airport surfaces	Mitigate Obstructions
Runway Protection Zone	✓			
General Aviation Facility Requirements				
Aircraft Parking Aprons	✓ (existing)	✓ (future)		Expand GA Apron in the long term future Add electric aircraft charging stations
Helicopter Parking Aprons		✓		Construct separate helicopter parking apron with 6 parking spaces
AAM/eVTOL Facilities		✓		Construct new eVTOL Vertiport and eVTOL parking and hangars
Fixed Based Operator (FBO) Services		✓		Expand Skyview Aviation SASO building and add additional flight school building Plan second FBO/SASO for long term future
Hangars		✓		Construct new hangars to accommodate at least 37 additional hangars

TRACY MUNICIPAL AIRPORT

Airport Master Plan Update

Facility Requirements

Table 1				
Facility Requirement Summary				
Tracy Municipal Airport				
Airport Feature	Adequate	Deficient	FAA Requirement	Proposed Resolution
Support Facilities				
Fueling Facilities	✓ (existing)	✓ (future)		Add additional 100LL and Jet A dispenser in future
Aircraft Wash Rack		✓		Construct new wash rack
Airport Maintenance Facilities	✓			
General Aviation Terminal Facilities		✓		Construct a new 2,810 - 4,610 Sq. Ft. General Aviation Terminal Building
Ground Access and Parking Facilities				
Access Roads	✓			Recommend City rehabilitate South Tracy Boulevard
Automobile Parking	✓	✓		Plan additional parking for future terminal building and eVTOL facilities
Perimeter Fencing and Security Requirements				
Perimeter Fencing		✓		Install new 6' fence adjacent to through the fence operation Replace 4' fence with new 6' fence Replace existing wrought iron gate with automatic gate
Security	✓ (existing)	✓ (future)		Upgrade existing automatic gates to add card reader Add knock boxes to existing gates Install security camera system
Drainage and Utilities				
Drainage		✓		Construct new ditch north of Runway 8-26
Utilities		✓		
Land Ownership and Easements				
Land Ownership	✓ (existing)	✓ (future)		Acquire land or easement for land required to relocate existing fence that is obstruction to future B-II OFA
Easements		✓		Acquire land or easement for land required to relocate existing fence that is obstruction to future B-II OFA Acquire easement for offsite utilities

Questions?



Damon Brandley



You Hire Brandley,
You Get Brandley



Melissa Brandley

**CITY OF TRACY
TRANSPORTATION ADVISORY COMMISSION MEETING
May 11, 2023**

AGENDA ITEM 5.b.

REQUEST

**REVIEW AND PROVIDE UPDATES ON COMMISSION GOALS AND OBJECTIVES
FOR FY 2022/23**

DISCUSSION

At the September 8, 2022 regular Transportation Advisory Commission (TAC) meeting, the commission held discussion on their goals for the current fiscal year 2022/2023.

Below are the commission recommended goals for FY 22/23 with recommended timelines.

FY22/23 Transportation Commission Goals

	GOAL	TIMELINE	SUB-COMMITTEE
OUTREACH	Public Outreach at Farmer's Market	Each month in conjunction with the City booth	Assignments made each commission meeting Next Dates: June 17, 2023
	Public Outreach at Block Party Events	As scheduled in conjunction with the City booth	Assignments made each commission meeting Next Dates: June 9, 2023
	Participate in City Sponsored Airport events	October 29, 2022 June 2-3, 2023	All In Process
	Participate in Other Appropriate Community Events	June 2023	All COMPLETE - Tracy Earth Day Event – April 29, 2023
TRANSIT	Provide Input on Short Range Transit Plan Implementation	April 2023	All COMPLETE
	Provide Fare Policy Recommendation to City Council	TBD	All PARTIALLY COMPLETE

AIRPORT	Provide Input on Updated Airport Master Plan	Oct/Nov 2022 TBD 2023	All
EDUCATION	Receive presentations on areas related to the purpose of the commission (funding, bus contractor, SJCOG, bike safety, etc)	Ongoing	

In order to successfully complete each of these goals, the commissioners will form ad-hoc subcommittees to address each of these items by the timeline specified. It is suggested that each committee be comprised of no more than 2 commissioners.

FISCAL IMPACT

There is no fiscal impact to the General Fund, Transportation Fund or Airport Fund for this item at this time.

RECOMMENDATION

That the Commission provide updates on the commission goals and objectives for FY 2022/23.

**CITY OF TRACY
TRANSPORTATION ADVISORY COMMISSION MEETING
May 11, 2023**

AGENDA ITEM 7

Staff Items

Annual Commission Items:

- Election of Chair/Vice-Chair (June)
- Commission Goals Update (June/July)
- Unmet Transit Needs (October/November)
- CIP Review (November/December)

Airport Update

By Paula Jessup

Airport Improvement Items:

Project	Current Status	Next Steps
FAA Compliance Review	Meeting with FAA to discuss compliance findings.	Follow up meeting with FAA.
Tracy Airport Master Plan	Staff reviewing current draft.	Incorporate FAA Compliance Review recommendations. Draw ALP.

Transit Update

By Jayne Pramod

Transit Projects Update:

Project	Current Status	Next Steps
Transit Station Lobby Renovation	Construction complete. Project was accepted by City Council on April 4, 2023.	Ribbon cutting event on June 6, 2023.

TRACER Ridership: A year-to-date comparison of current ridership compared to the same period in the previous year is shown below. Fixed route ridership is up 9,093 riders compared to the year-to-date ridership in March FY 21/22, an increase of approximately 13.7%. Paratransit ridership is up 3,387 riders compared to the same time in March FY 21/22, an increase of approximately 42%. Overall the Tracer system ridership has increased by 12,480 riders over the same period last year, an overall increase of approximately 16.7%

March Year To Date Ridership Comparison

	FY 21/22	FY 22/23
Fixed Route Ridership		
Regular	11,635	13,078
Student (Students Ride Free Promo effective FY20/21)	2,611	0
Senior	5,014	6,877
Disabled	1,089	1,239
Free (Personal Care Attendant, ACCESS Pass)	2,197	1,662
Promo Passengers	26,891	42,247
<i>Promo Regular</i>	3,622	5,952
<i>Promo Student</i>	19,380	32,815
<i>Promo Senior</i>	1,812	2,305
<i>Promo ADA</i>	708	708
<i>Promo Free</i>	1,369	467
Passengers w/tickets	15,921	8,989
Passengers w/transfers	1,134	1,493
Total	66,492	75,585
Paratransit Ridership		
Regular (Guest)	300	265
Senior	1,153	1,172
Disabled	6,219	8,979
Free	895	1,030
Total	8,059	11,446
All Systems Ridership	74,551	87,031

Fixed Route On-Time Performance FY22/23:

	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
A Route				93%	94%	91%	88%	94%	89%			
B Route				80%	88%	88%	86%	77%	75%			
C Route				83%	92%	90%	76%	83%	81%			
D Route				77%	77%	83%	83%	77%	72%			
E Route				80%	82%	84%	81%	86%	83%			
F Route				94%	87%	89%	88%	94%	76%			
G Route				83%	80%	89%	87%	96%	81%			
Arbor Shuttle				NA	66%	60%	68%	68%	74%			
OVERALL				84%	83%	87%	84%	84%	79%			