



**REGIONAL TRANSPORTATION COMMISSION
TECHNICAL ADVISORY COMMITTEE
MEETING AGENDA**

**Wednesday, October 4, 2017 at 9:00 am
Regional Transportation Commission 1st Floor Conference Room
1105 Terminal Way, Reno NV 89502**

I. The RTC 1st Floor Conference Room is accessible to individuals with disabilities. Requests for auxiliary aids to assist individuals with disabilities should be made with as much advance notice as possible. For those requiring hearing or speech assistance, contact Relay Nevada at 1.800.326.6868 (TTY, VCO or HCO). Requests for supporting documents and all other requests should be directed to RTC Metropolitan Planning at 775-348-0480. Supporting documents may also be found on the RTC website: www.rtcwashoe.com.

II. The Technical Advisory Committee (TAC) has a standing item for accepting public comment on topics relevant to the RTC TAC that are not included on the agenda. No action may be taken on a matter raised under this item of the agenda until the matter itself has been specifically included on an agenda as an item upon which action will be taken. For specific items on the TAC agenda, public comment will be taken at the time the item is discussed. Individuals providing public comment will be limited to three minutes. Individuals acting as a spokesperson for a group may request additional time. Attempts to present public input in a disruptive manner will not be allowed. Remarks will be addressed to the TAC as a whole and not to individual members.

III. The TAC may combine two or more agenda items for consideration and/or may remove an item from the agenda or delay discussion relating to an item on the agenda at any time.

- ITEM 1** Approval of Agenda (*For Possible Action*)
- ITEM 2** Public Comment - *please read paragraph II near the top of this page*
- ITEM 3** Approval of the September 6, 2017 Meeting Minutes (*For Possible Action*)
- ITEM 4** Reno-Tahoe International Airport Master Plan Development (*Informational Only*)
- ITEM 5** NDOT Transportation Planning Advisory Committee (TPAC) (*Informational Only*)
- ITEM 6** Pyramid Highway/US 395 Connection Project Final Environmental Impact Statement (FEIS) (*Informational Only*)
- ITEM 7** Recent Service Change Feedback and Call for Service Improvements for September 2018 (*Informational Only*)
- ITEM 8** Commuter Rail Ridership Forecast Report (Phase 1: Reno-Sparks-USA Parkway/TRI Center) (*Informational Only*)
- ITEM 9** RTC Affordable Housing Study (*Informational Only*)
- ITEM 10** Development Updates (*Informational Only*)
- ITEM 11** Member Items
 - a) City of Reno
 - b) Reno-Tahoe Airport Authority
 - c) City of Sparks
 - d) FHWA
 - e) Washoe County
 - f) Air Quality Management Div. (AQMD)
 - g) NDOT
 - h) TMRPA
 - i) WCSD
 - j) Reno-Sparks Indian Colony (RSIC)

ITEM 12 Agenda Items for Future TAC Meetings (*For Possible Action*)

ITEM 13 RTC Staff Items (*Informational Only*)

ITEM 14 Public Comment - *please read paragraph II near the top of this page*

ITEM 15 Adjournment (*For Possible Action*)

*The Committee **may** take action on any item noted for possible action*

Posting locations: Washoe Co. Admin. Bldg., 1001 E. 9th St., Reno, NV; RTC, 1105 Terminal Way, Reno, NV; 4th STREET STATION, 200 E. 4th St., Reno, NV; CENTENNIAL PLAZA, Victorian Square, Sparks, NV; Sparks City Hall, 431 Prater Way, Sparks, NV; Reno City Hall, 1 E. First St., Reno, NV; Incline Village General Imp. Dist., 893 Southwood Blvd., Incline Village, NV; area press & media via fax; RTC website www.rtcwashoe.com

**REGIONAL TRANSPORTATION COMMISSION
TECHNICAL ADVISORY COMMITTEE**

Meeting Minutes

Wednesday, September 6, 2017

Attendees

Daniel Inouye	Washoe County Health District-Air Quality Management Division
Janelle Thomas	City of Reno Community Development
Chris Tolley	Truckee Meadows Regional Planning Agency
Steve Bunnell, Chair	City of Reno Community Development
Joe Spencer	Nevada Department of Transportation
Lissa Butterfield	Reno-Tahoe Airport Authority
Scott Carey	Reno-Sparks Indian Colony
Armando Ornelas	City of Sparks Public Works
Kelly Mullin	Washoe County Development Department
Clara Lawson	Washoe County Development Department
Christina Leach	Federal Highway Administration

RTC Staff

Dan Doenges	Garth Oksol
Mark Maloney	Julie Masterpool
Amy Cummings	Rebecca Kapuler
David Carr	Stephanie Haddock
Jacqueline Maldonado	

TAC Guests

TMRPA staff

The Committee met in the First Floor Conference Room, 1105 Terminal Way, Reno, Nevada. The meeting was called to order at 9:02 a.m. by the Chair, Steve Bunnell.

ITEM 1. APPROVAL OF AGENDA

The agenda was approved as submitted.

ITEM 2. PUBLIC COMMENT

TMRPA staff, gave comments on the Truckee Meadows Regional Plan update for the 2017-2037.

ITEM 3. APPROVAL OF THE AUGUST 2, 2017 MEETING MINUTES

The minutes of the TAC meeting August 2, 2017, were approved as submitted.

ITEM 4. VIRGINIA STREET BUS RAPID TRANSIT EXTENSION PROJECT LIGHTING, LANDSCAPING AND FINISHES

Doug Maloy, RTC Engineer and Project Manager for the RTC Virginia Street Bus RAPID Transit Extension Project gave a presentation on the project and gave updates on the lighting, landscaping and finishes. A copy of the PowerPoint presentation is on file at the RTC Metropolitan Planning Department. Questions on the crosswalks and lighting were discussed.

ITEM 5. BICYCLE AND PEDESTRIAN PROJECTS IN THE FFY 2018 REGIONAL TRANSPORTATION IMPROVEMENT PROGRAM

Garth Oksol, RTC Engineering Manager, briefed the committee on the bicycle and pedestrian projects currently underway FFY 2018 RTIP and a discussion followed on Midtown area, Mill Street, for the bicycle and pedestrian projects.

ITEM 6. BIKE SHARE FORUM UPDATE

Rebecca Kapuler, RTC Planner gave a presentation on the Bike Share Forum and updated the committee on the Bike Share Feasibility study given at the forum. A copy of the PowerPoint presentation is on file at the RTC Metropolitan Planning Department. She then asked to answer questions and the Midtown and Sparks areas were discussed from the study presentation maps.

ITEM 7. DEVELOPMENT UPDATES

- Janelle Thomas gave development project updates for the City of Reno.
- Armando Ornelas gave development project updates for the City of Sparks.
- Kelly Mullin gave development project updates for the Washoe County.

ITEM 8. MEMBER ITEMS

- Lissa Butterfield gave updates on the alternative projects for the forecast Master Plan for RTAA.
- Dan Inouye gave updates for WC-AQHD.
- Chris Tolley gave project updates on the TMRP for TMRPA.
- Scott Carey gave update improvements on Glendale for RSIC.

ITEM 9. AGENDA ITEMS FOR FUTURE TAC MEETINGS

There were no items given.

ITEM 10. RTC STAFF ITEMS

Dan Doenges, RTC Planning Manager announced there are two NDOT, Spaghetti Bowl meetings on September 13 and 14, 2017 from 4:00 p.m. to 7:00 p.m. at Traner Middle School and Sparks City Hall.

ITEM 11. PUBLIC COMMENT

There was no public comment

ITEM 12. ADJOURNMENT

The meeting adjourned at 9:54 a.m.

October 4, 2017

AGENDA ITEM 4

TO: Technical Advisory Committee

FROM: Dan Bartholomew
RTAA Manager of Planning &
Environmental Services

SUBJECT: Reno-Tahoe International Airport Master Plan Development

RECOMMENDATION

Acknowledge receipt of the Reno-Tahoe International Airport Master Plan report.

SUMMARY

In October 2016, Reno-Tahoe International Airport (RNO) began undertaking a 16-month master planning process to address airport growth, aviation industry changes, and FAA standards for the next 20 years. It provides a funding roadmap and addresses the dynamics of air service and cargo while balancing the needs of the community.

Smaller-scope planning work has been performed at regular intervals, but the last full airport master plan was in 1991. Changes in local demographics, federally-mandated safety and security measures, airline business models, and technological enhancements highlight the needs for a new way forward.

Staff from the Reno-Tahoe Airport Authority will provide an update regarding the status of the Master Plan.



REGIONAL TRANSPORTATION COMMISSION

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October 4, 2017

AGENDA ITEM 5

TO: Technical Advisory Committee

FROM: Tim Mueller
NDOT Transportation Planner

SUBJECT: NDOT Transportation Planning Advisory Committee (TPAC)

RECOMMENDATION

Receive a report regarding the Nevada Department of Transportation's (NDOT) newly formed Transportation Planning Advisory Committee (TPAC).

SUMMARY

During this past summer, NDOT made the decision to disband the former Statewide Transportation Technical Advisory Committee (STTAC) and replace it with the newly formed TPAC. According to the TPAC charter, the TPAC is intended to advise, solicit input and interact with NDOT's Planning management team and staff on issues that affect transportation planning in Nevada. This advisement/interaction may include: review, comment and making recommendations on NDOT planning studies, plans and guidance as well as special duties such as serving as the Steering Committee for the One Nevada Transportation Plan. An additional purpose of the committee is to help NDOT with its public outreach efforts by providing valued input into the transportation planning decision-making process

The first meeting of TPAC was held on September 7, 2017. NDOT staff will provide background information on the formation of the TPAC and its vision going forward.



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AGENDA ITEM 6

TO: Technical Advisory Committee

FROM: Doug Maloy, P.E.
Engineer II

SUBJECT: Pyramid Highway/US 395 Connection Project Final Environmental Impact Statement (FEIS)

RECOMMENDATION

Acknowledge receipt of the Pyramid Highway/US 395 Connection Project FEIS report.

SUMMARY

The Pyramid Highway/US 395 Connection Study is an environmental and engineering study being conducted by the Regional Transportation Commission of Washoe County (RTC) on behalf of the Nevada Department of Transportation (NDOT) and in cooperation with the Federal Highway Administration (FHWA). This study is evaluating alternatives to relieve traffic congestion on the Pyramid Highway and provide improved east/west community connectivity from Pyramid Highway to US 395 and east to Vista Boulevard. Alternatives were developed and evaluated to provide for existing traffic and anticipated future growth through the year 2035.

The Final Environmental Impact Statement (FEIS) was submitted to the FHWA in June 2017. The Preferred Alternative consists of Four and Six Lane Arterial improvements at specific locations on Pyramid Highway and the US 395 Connector. The proposed High Speed High Access Controlled Arterial improvements are the result of additional traffic modeling, design refinements and environmental impact analysis of the preferred alternative included in the initial Draft EIS. On June 7, 2017 the team gave a presentation to the project's Technical Advisory Committee (TAC) confirming Alternative 3 as the preferred alternative.

Staff will provide an update regarding the status of the FEIS and the preferred alternative.



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AGENDA ITEM 7

TO: Technical Advisory Committee

FROM: Michael Dulude
Transit Planner / Scheduler

SUBJECT: Recent Service Change Feedback and Call for Service Improvements for September 2018

RECOMMENDATION

Receive a report on the 2017 RIDE service change and provide feedback on the recent and proposed future service change.

SUMMARY

Over the past couple of years, RTC has presented and sought input and approval for changes in service from this committee, which were derived from the Short Range Transit Plan study process. Those recommended service changes were implemented on Sunday, September 3, 2017.

In an effort to continue providing the best public transit service to the urbanized Truckee Meadows area, RTC is requesting feedback from this latest service change. Therefore, Public Transportation and Operations is seeking the committee's input on what they have heard from their peers and constituents regarding the recent service change. All feedback is welcome.

Public Transportation and Operations is aware there are other issues that were not addressed in the latest service change. Thus, another service change is being planned for September 7, 2018. This is an opportunity to address any issues or proposed improvements. Therefore, RTC seeks input from this committee for service improvement ideas. Currently, this call for ideas will be open until mid-January of 2018.

All transit service improvements need to be analyzed and prioritized by mid-January of 2018. All preliminary service change recommendations will be vetted in February, with final draft recommendations in March. The final recommendations will be presented to the RTC Board at the April 20, 2018 Board meeting. This time-line is required to implement the recommended service changes on September 7, 2018.

ADDITIONAL BACKGROUND

The 2018 – 2022 Short Range Transit Plan study concluded revenue would remain static for public transit over the five year period of the plan. Therefore, all service changes to be considered will need to be cost and revenue neutral. This means there are no additional funds to expand services, either in frequency or coverage.



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AGENDA ITEM 8

TO: Technical Advisory Committee

FROM: Xuan Wang
Senior Technical Planner

SUBJECT: Commuter Rail Ridership Forecast Report (Phase 1: Reno-Sparks-USA Parkway/TRI Center)

RECOMMENDATION

Acknowledge receipt of the Commuter Rail Ridership Forecast Report (Phase 1: Reno-Sparks-USA Parkway/TRI Center).

SUMMARY

Commuter Rail Ridership Forecast (Phase 1: Reno-Sparks- USA Parkway/TRI Center)

The forecast analysis is to estimate ridership for a conceptual commuter rail project to provide rail transit service from Reno and Sparks to the Tahoe-Reno Industrial Center (TRI Center). The commuter rail project consists of three phases as listed below. This analysis is for Phase 1 only.

Phase 1: Reno to USA Parkway/TRI Center via Sparks with three station locations.

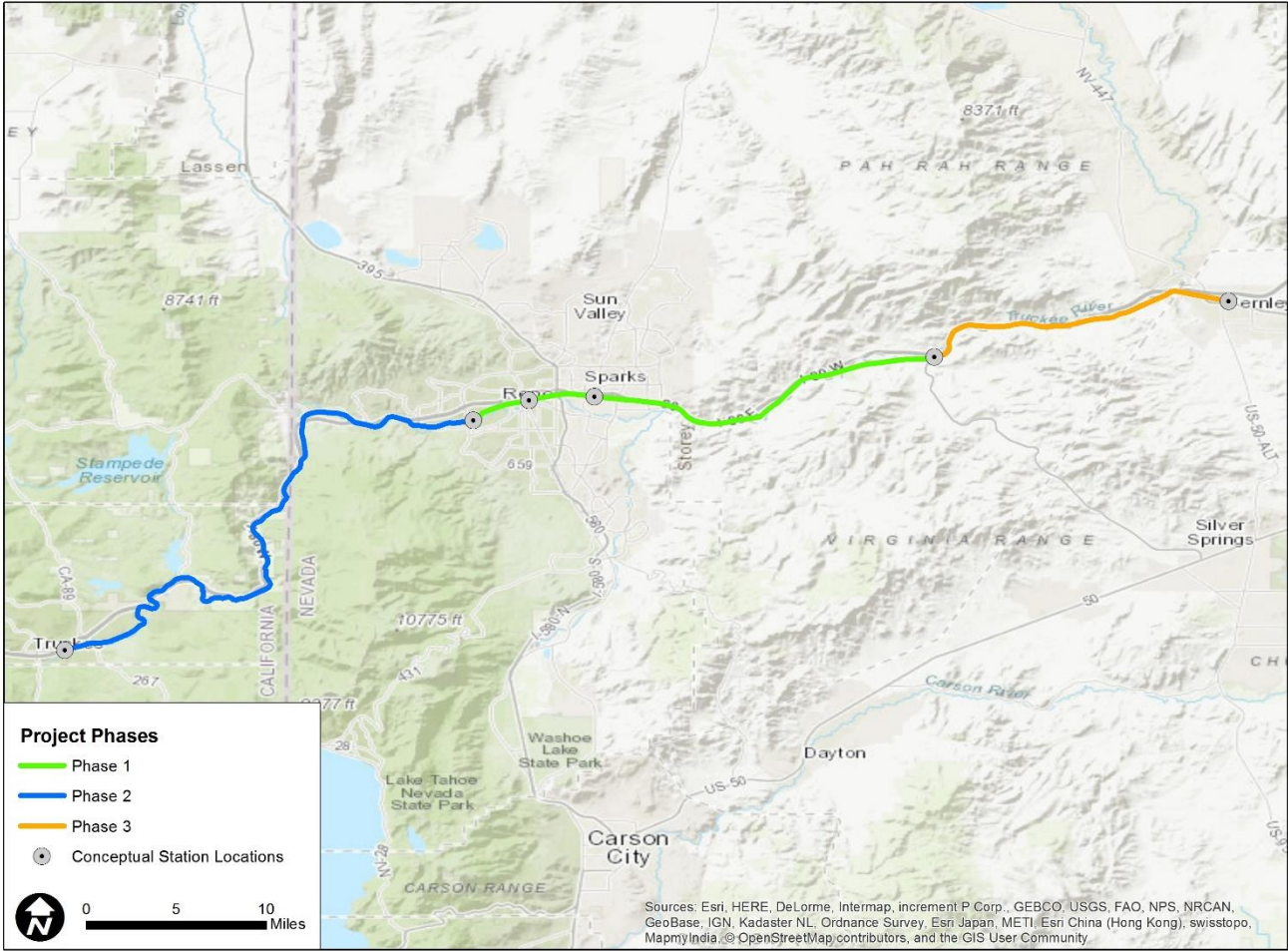
- Reno Station: Amtrak Station at Downtown Reno with very limited Park & Ride capabilities;
- Sparks Station: existing platform at the end of Pyramid Hwy with Park & Ride capability;
- USA Parkway/TRI Center Station: located just west of USA Parkway at what appeared to be useable and obtainable land and potential for a very large Park & Ride.

Phase 2: Truckee to Reno

- Additional stations in downtown Truckee and west Reno.

Phase 3: TRI Center to Fernley

The following map illustrates the conceptual rail line phasing and station locations.



The ridership forecast is modeled using Federal Transit Administration (FTA)’s Simplified Trips-on-Project Software (STOPS). STOPS is designed to estimate fixed guideway transit trips on a project using readily available data and procedures that are calibrated to match both local and national experience related to rail and BRT ridership.

The analysis is based on land use forecasts in the 2040 Regional Transportation Plan (RTP). This land used scenario was developed by Truckee Meadows Regional Planning Agency (TMRPA) based on the 2016 consensus forecast. Storey County provided employment forecast in TRI Center which is shown in Table 1.

Table 1: Employment Forecast of TRI Center

Employment Category	2015 Employment	2040 Future Estimate
Agriculture, mining, and construction	254	775
Manufacturing, transportation, communications, utilities, and wholesale	4,081	27,110
Retail employment	361	2741
Service and office	179	2938
Other	45	342
Total	4,920	33,906

The 2040 RTP project listing was used to estimate the highway travel times input required by STOPS. A transit service schedule in GTFS format was developed for the model run.

Commuter rail travel time is assumed by using average speed of 39 mph, with travel speed of 54 mph. Travel speed is obtained via Google Maps drive time with time added for train acceleration and deceleration. End-of-line layover is 9 minutes (at Reno Station and USA Parkway/TRI Center Station).

Ridership forecasts are conducted for four different scenarios with various operating hours and headways.

Scenario 1:

- Span of day is 6:00 am to 10:00 pm.
- 30 minute headway service from 6:00 am to 9:30 am, then again, from 4:00 pm to 7:30 pm.
- 60 minute headway service from 8:00 am to 4:00 pm, then again, from 7:00 pm to 10:00 pm.
- Requires two train sets.
- Train deadheads from the Sparks Station to Reno in the morning and deadheads from the Reno Station back to Sparks Station.

Scenario 2:

- Span of day is 6:15 am to 8:15 am, then again, from 3:05 pm to 6:06 pm.
- 60 minute headway service during each span.
- Requires one train set.
- Service starts and ends at the Sparks Station.

Scenario 3 (variation on Scenario 2):

- Span of day is 6:00 am to 10:00 am, then again, from 4:00 pm to 7:00 pm.
- 60 minute headway service during each span.
- Requires one (1) train set.
- Train deadheads from the Sparks Station to the Reno Station in the morning and deadheads from the Reno Station back to Sparks Station.

Scenario 4 (variation of Scenario 2 and Scenario 3):

- Span of day is 6:30 am to 8:15 am, then again, from 4:00 pm to 6:00 pm.
- 60 minute headway service during each span.
- Requires one train set.
- Train deadheads from the Sparks Station to the Reno Station in the morning and at the Sparks Station.

Daily ridership in 2015 and 2040 was modeled with STOPS. 2015 was used because it is a model year in RTC's travel demand modal and observed transit data in 2015 are available for calibration. Model run results are listed in Table 2.

Table 2: Daily Ridership Forecast from FTA STOPS Model Runs for Commuter Rail Service
Between Reno and the TRI Center

	2015	2040
Scenario 1	1,800	2,400
Scenario 2	350	450
Scenario 3	700	900
Scenario 4	350	400



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October 4, 2017

AGENDA ITEM 9

TO: Technical Advisory Committee

FROM: Amy Cummings
Director of Planning

SUBJECT: RTC Affordable Housing Study

RECOMMENDATION

Acknowledge receipt of the RTC Affordable Housing Study and provide input.

SUMMARY

The Reno-Sparks region is facing a significant challenge relating to housing affordability. Public transportation is an important resource for area residents and provides access to essential services. Affordable housing in close proximity to transit routes offers improved access to services and increases transit ridership. RTC is undertaking a study to identify opportunities for the development of affordable housing in transit corridors. It will identify potential approaches for RTC to support affordable housing the region. The draft scope of work for this study is attached for review and discussion.

**RTC Affordable Housing Study:
Identify Opportunities to Support Affordable Housing Near Public Transportation
Draft Scope of Work**

Purpose of study:

The purpose of this study is to identify the benefits of providing affordable housing in the transit service area, provide an analysis of the potential for future affordable housing development in transit corridors, and identify ways that RTC can participate in or support the development of affordable housing near transit stops.

1. Policy Research

- a. Identify initiatives related to affordable housing that are currently underway in the Reno-Sparks region.
- b. Review existing studies in the region relate to affordable housing.
- c. Define the benefits of providing affordable housing on transit routes.
- d. Define “affordable housing.”
- e. Identify federal policies and programs related to transit/transportation agency involvement in affordable housing development, including Joint Development, and define how these apply in the Reno-Sparks region.
- f. Provide analysis of factors that impact the feasibility of affordable housing development on RTC transit routes.
- g. Identify potential changes to zoning/development codes that could incentivize affordable housing on transit corridors.
- h. Identify initiatives to incentivize affordable housing near transit routes from other MPOs/transit agencies/local governments throughout the U.S.

2. Technical Analysis

- a. Develop affordable housing market analysis of selected transit corridors.
- b. Develop inventory of any planned or pending affordable housing developments in proximity to transit routes/stops.

The following data will be provided by RTC:

- *Maps of affordable housing needs in the transit service area and BRT corridors.*
- *GIS analysis of RTC-owned and other publicly-owned land near transit stops.*
- *GIS analysis of vacant or underutilized land near transit stops and high frequency routes.*
- *Station area maps that highlight potential development opportunities at BRT stations or other high frequency routes.*
- *Maps of the locations of other resources that are important for Northern Nevada families, including government and human services and medical care facilities.*

3. Outreach and Engagement

- a. Agency Advisory Committee meetings for staff (Reno, Sparks, Washoe County, Reno Housing Authority, TMRPA, State of Nevada, FTA) (4)
 - b. Forums for local affordable housing advocates & providers (3)
 - c. Public meeting/open house (1)
4. Development of RTC Affordable Housing Plan/Strategy
- a. Develop a vision for affordable housing in the Truckee Meadows.
 - b. Develop strategy for best use of RTC-owned parcels.
 - c. Develop strategy for potential future property acquisition.
 - d. Identify feasible mobility solutions for outlying areas.
 - e. Strategy for use of other RTC resources to support the region's affordable housing goals.
 - f. Station area plans in locations best suited for affordable housing development
5. Report Findings.
- a. Develop draft and final report to summarize findings.
 - b. Develop presentation materials to summarize findings.