

Scope of Services Verdi Area Multimodal Transportation Study

Introduction:

This scope of work is for the multimodal transportation study of the Verdi area. The purpose of the study is to identify needs and transportation improvements for regional roads in the study area. The study will focus on traffic operations analysis and improvements, safety improvements, pedestrian and bicycle connectivity, and transit service needs on freeways, regional roads, and regionally significant roads identified by the project team. The study is generally in the Verdi area as shown in the map below. Specific study area boundary will be determined in coordination with the project team.

Study Area Map



Objective:

Identify and evaluate potential multimodal transportation improvements for regional roads in the Verdi area. The study will provide a strategy for developing transportation improvements according to adjacent planned and existing land use. We will coordinate with the Nevada Department of Transportation (NDOT) to identify potential improvements to I-80 and freeway interchanges in the study area.

Task 1: Project Management

- 1.1 Invoicing and Progress Reports - Prepare the monthly progress reports, invoices, and billing.
- 1.2 Coordination - An initial meeting with RTC will be organized to establish study goals and objectives. Coordination with the RTC project manager and staff will be ongoing throughout the project. It is anticipated that the consultant will communicate with the project management team through brief bi-weekly online meetings.
- 1.3 Management Plan - The consultant shall provide a management plan that identifies a team organizational structure and anticipated steps and processes required to complete the study. This will include a project schedule and budget for each task and corresponding deliverables, and progress reports.

Task 2: Existing and Future Conditions Analysis

- 2.1. Existing Studies - Review existing traffic and land use development studies that are relevant to the Verdi area and incorporate them into the analysis. Review recent and planned improvements.
- 2.2 Traffic Analysis – Identify a list of study intersections in the area in coordination with the project team. Obtain recent peak hour morning and evening turning movement data at the intersections during a typical workday when school is in session. Analyze system performance based on the data collected. Prepare Level of Service (LOS) analysis for the study intersections and roadway segments. Develop existing and 2050 traffic volumes on the regional network and at the study intersections using adjusted RTC travel demand model results. Review truck routes and truck traffic and safety in the area.
- 2.3 Land Use Analysis - Collect information about zoning, current land use, and planned land use/redevelopment, including Verdi area schools, major commercial, industrial and residential developments. Coordinate with the Truckee Meadows Regional Planning Agency (TMRPA) to update information about proposed developments in the area. Coordinate with Washoe County School District and major land-use developments that have the potential to significantly impact the travel demand or traffic operations in the study area. Develop a memo to document all land-use changes compared with the 2020 consensus forecast, which was used in the RTC’s travel demand model. Provide a summary that can be used by the RTC to update the travel demand model land use data and reflect the development forecasts. Travel demand modeling will be conducted by the RTC, and outputs will be provided to the consultant. The consultant will adjust raw model results following the RTC’s direction.

- 2.4 Safety Analysis – Collect available crash statistics, including bicycle and pedestrian related crashes. Analyze potential safety issues and contributing factors on the study roadway segments and intersections, including lighting, speed, railroad crossings, roadside hazards etc.
- 2.5 Transit Analysis – Document existing transit service and ridership trends in the immediate study area. This includes an analysis of the existing FlexRIDE service in the study area. Coordinate with the RTC Public Transportation and Operations Department to identify future transit service needs, potential improvements, and park and ride options.
- 2.6 Pedestrian, Bicycle, ATV Routes Analysis – Document the location of existing pedestrian and bicycle facilities connectivity of the network in the study area. Address community concerns related to off-road vehicle routes. Provide improvement strategies to ensure safe travel for all modes.

Task 3: Public and Agency Involvement

- 3.1 Project Technical Advisory Committee Meetings – Facilitate up to five (5) project TAC meetings that will be held during the planning study to review study issues and results. These meetings may be in person or online.
- 3.2 Public Information Meetings/ Planning Workshops – Facilitate up to two (2) public information meetings, in an open-house/workshop format during the project. Conduct outreach to area residents and business/property owners and community groups. Provide online meeting options depending on the social distancing requirements at the time.
- 3.3 Agency Meetings – Present the project at community and stakeholder meetings including WARD 5 Neighborhood Advisory Board (NAB) and West Truckee Meadows/Verdi Township Citizens Advisory Board (CAB) meetings.
- 3.4 RTC Technical Advisory Committee (RTC TAC) and Citizens Multimodal Advisory Committee (CMAC) Meetings – Make two presentations to the RTC TAC and CMAC (four meetings total).

Task 4: Develop and Evaluate Alternatives

- 4.1 Develop a vision statement and associated goals for the study. This multimodal vision statement should incorporate community and stakeholder input and include the integration of transportation, land use, and community needs. The role the Verdi area serves relative to different transportation modes (auto, transit, bicycle, and pedestrian) should be considered. Goals for the area should take into account existing and future land use.
- 4.2 Roadway and Traffic Improvements - Develop and evaluate short and long-term roadway and intersection improvements, including the following:
- *Traffic signal upgrades*
 - *Travel lane configurations*
 - *Freeway capacity needs*
 - *Speed limit changes*
 - *Intersection/ interchange configurations and potential roundabouts*
 - *Signs and markings improvements*
 - *Traffic calming measures*
 - *School zone operational & safety improvements*
 - *Parking needs*

Detailed Designs, Right-of-Way Determination, and Change of Access Reports are not included in this Scope of Work but may be included under contract amendment

- 4.3 Transit Improvements – Develop and evaluate short and long-term transit improvements based on the Short Range Transit Plan, including the following:
- *Potential needs for transit service*
 - *Potential improvements to the existing FlexRIDE*
 - *Potential park and ride lots*
- 4.4 Pedestrian and Bicycle Improvements – Develop and evaluate improvements to pedestrian and bicycle facilities, including sidewalks, bicycle lanes, multi-use paths, and streetscape improvements at a planning level.

Task 5: Report Preparation

- 5.1. Draft Report - Prepare a concise and focused draft report including graphics and illustrations of alternatives. The report will include typical cross-sections, conceptual design level exhibits for roadway and intersection improvements, concept layouts of other improvements, and planning level cost estimates.
- 5.2 Revised Report – Revise the draft report based on comments from the RTC, NDOT, the City of Reno, and Washoe County. Present revised report to TAC, CMAC, and the public.
- 5.3 Final Report – Incorporate comments from TAC and CMAC members and the public and produce the Final Report.

Deliverables

1. Meeting materials and displays for public, stakeholder, and RTC TAC/CMAC/Board meetings
2. Provide an electronic copy of the draft report to the RTC for review and distribution.
3. Provide an electronic copy of the final report.

Project Milestones:

- Project coordination meeting with RTC, NDOT, the City of Reno, and Washoe County – Month 1
- Project TAC Kickoff Meeting – Month 2
- Public Information/Workshop Meeting #1 – Month 4
- Public Information/Workshop Meeting #2 – Month 7
- Draft Report – Month 10
- Revised Report – Month 11
- Final Report – Month 12