



REGIONAL TRANSPORTATION COMMISSION

Metropolitan Planning • Public Transportation & Operations • Engineering & Construction

Metropolitan Planning Organization of Washoe County, Nevada

MEETING DATE: April 16, 2021

AGENDA ITEM 4.4

From: Brian Stewart, P.E., Director of Engineering

RECOMMENDED ACTION

Acknowledge receipt of the monthly Engineering Activity Report.

BACKGROUND AND DISCUSSION

BICYCLE AND PEDESTRIAN IMPROVEMENTS

Bus Stop Improvement and Connectivity Program

The program is a multi-year effort to upgrade existing bus stops to comply with state and federal requirements, including the Americans with Disabilities Act (ADA). The first phase of bus stop improvements located within public right-of-way (13 bus stops) is complete. The process of obtaining necessary easements for other locations is ongoing. The design consultant, CA Group submitted easement packages for the second phase (37 bus stops) in July and acquisition work continues.

The right of way process continues for bus stops in Phase 2 and 3. The team is compiling plans, specifications, and estimates for the second construction package that is anticipated to advertise as soon as agency reviews are complete.

Center Street Multimodal Improvements Project

The project consists of constructing a two-way cycle track from Ninth Street to Moran Street in Reno. The majority of the improvements include traffic signal, pavement markings and signage modifications. Sidewalk improvements in some locations are being incorporated. The project includes design and construction of a dedicated bicycle corridor between the university and downtown/midtown. The thirty percent (30%) design (preliminary design) is complete. Additional traffic analysis of the downtown road network is occurring prior to continuing forward with final design. Pending the results of the additional analysis and further coordination, an Interlocal Cooperative Agreement (ICA) with the City of Reno will be presented to the RTC Board for approval.

Mill Street Complete Street (Terminal Way to McCarran Boulevard)

The scope of this project is to design and construct various complete street improvements along Mill Street from Terminal Way to McCarran Boulevard, as identified in the RTC Complete Streets Masterplan completed in July 2016, and the Mill/Terminal corridor study completed in March 2013. The emphasis of this project is to assess and identify improvements for pedestrians, bicyclists, and transit riders as well as motorists. Deficiencies in pedestrian access related to Charter Schools and AACT High School in the area as well as a number of ADA deficient bus stops will be addressed.

One hundred percent (100%) design plans and Solicitation Documents have been prepared for submission to the City of Reno for review. Advertisement for bids is planned to start in May 2021.

CAPACITY/CONGESTION RELIEF PROJECTS

Traffic Management - ITS Phase 3

The project includes conduit and fiber optic cable at the following locations:

- Lake Street from 1st Street to 2nd Street;
- Lemmon Drive from North Virginia Street to US 395; and
- Rock Boulevard from Greg Street to Prater Way

Also included in ITS Phase 3 is a Road Weather Information Sensor (RWIS) at Sharlands Avenue at Robb Drive. The weather sensors will detect ice on the road thereby altering Reno Maintenance Crews that snowplow operations are required in the northwest. The project will install 20 Gridsmart Performance Packages. These are upgrades to existing Gridsmart detection systems and can detect/count pedestrian and bicycles. Advertisement was scheduled in March 2021.

Traffic Management - ITS Phase 4

The project includes conduit and fiber optic cable at the following locations:

- Sharlands Avenue from Robb Drive to Mae Anne Avenue;
- Double R Boulevard from South Meadows Parkway to Sandhill Road;
- Geiger Grade from South Virginia Street to Veterans Parkway;
- Prater Way from Pyramid Way to Sparks City Hall traffic center
- Feasibility studies for Dynamic Message Signs (DMS) and traveler information systems; and
- ITS Master Plan update including a 5 year future ITS project list

Project is currently in preliminary design phase and Kimley-Horn has been awarded the contract for this project.

North Valleys Package 3B

Package 3B includes adding capacity to the right turn lane at North Virginia Street/Business 395. This project also includes improvements to two bus stop pads located within the project area, and associated access and drainage improvements. Re-design is underway for a part of the storm drain system due to NDOT permitting requirements. The project is scheduled for construction in summer 2021.

Sparks Boulevard Project

The project seeks to increase safety, increase roadway capacity, and improve bicycle and pedestrian facilities by widening Sparks Boulevard to six (6) lanes between Greg Street and Baring Boulevard. Professional engineering services are underway with Atkins North America, Inc., performing environmental studies and preliminary design. The RTC, in cooperation with the City of Sparks, Nevada Department of Transportation (NDOT) and the Federal Highway Administration (FHWA), is initiating an Environmental Assessment (EA) to evaluate and document the proposed Project's potential impacts.

During the public scoping meeting and the virtual workshops conducted as part of the alternatives development, the proposed project limits extended from (and included) the Greg Street intersection to (and included) the Baring Boulevard intersection. Since that time, the RTC identified potential regional traffic impacts that could result from constructing the Sparks Boulevard Project

simultaneously with construction of Phase 1 of the Pyramid Connector Project. To avoid regional impacts, the RTC proposes to advance the capacity improvements on Sparks Boulevard between Greg Street and the I-80 westbound ramps in 2022 construction season as a separate action in the National Environmental Policy Act (NEPA) process. The remainder of the Sparks Boulevard Project, from the I-80 westbound ramps north to the Baring Boulevard intersection, is the revised Sparks Boulevard Project Area that will be constructed in the 2024/2025 season and continue to be analyzed as part of the EA project.

Traffic Signal Timing 6 Project

Following a three-year cycle schedule, the project includes review and timing optimization of approximately one-third (1/3) of the signals in the region per year. For 2020, this begins a new cycle where signals that were retimed in 2016 will be reevaluated and retimed to address the changes to traffic demand. For 2020, approximately ninety-five (95) intersections will have revised timing implemented. Timing plans are developed in coordination with the local entities and the University of Nevada, Reno. In the process, re-evaluation of the other settings such as vehicle passage times are calculated at each intersection to make sure they are up to current standards.

Progress through April 2021:

- N. Virginia Street BRT Project – TSP signal timing – Design/Implementation in progress.
- S. McCarran Blvd (22 Signals) – Mill St. to Cashill Blvd – Estimated completion June 2021
- W. McCarran Blvd (12 Signals) – W. Plumb Lane to Kings Row – Estimated completion June 2021

Traffic Engineering (TE) Spot 9 – Package 1 Project

The project includes:

- Traffic signal improvements at the intersection of Sharlands Avenue and Mae Anne Avenue;
- Installation of battery backup systems for signalized intersections on Sun Valley Drive from Scottsdale Road to 7th Street;
- Minor striping improvements to improve traffic flow at Pyramid Way at York Way; and
- Completion of a traffic study to determine potential improvements to the southbound right turn lane at the intersection of Vista Boulevard and Baring Boulevard. This component of the project will not move forward due following a cost benefit analysis.

Titan Electrical Contractors continues with construction of this project.

Traffic Engineering (TE) Spot 9 – Package 2 Project

The project includes various traffic updates throughout the Reno/Incline area:

- Traffic signal cabinet and camera upgrades at various intersections in the Reno area;
- New traffic signal at the intersection of Rock Boulevard/Edison Way; and a
- 4th Street/Mesa/Woodland intersection study for future improvements.

Titan Electrical Contractors was awarded the contract. Construction is scheduled to be complete on April 9, 2021.

Traffic Engineering (TE) Spot 10 – Fuel Tax Project

The project is currently in the final design phase and includes:

- Traffic signal at the intersection of Veterans Parkway and Long Meadow Drive;
- Update traffic signal equipment at the intersection of Victorian Avenue and 16th Street; and
- Rectangular Rapid Flashing Beacon (RRFB) installation at various locations within Reno, Washoe County and Sparks including Western Skies near Brown Elementary School, Steamboat at Horse Ranch, Mayberry at Keele Drive, 7th at McDonald Drive, Sadleir Way at Valley Road, Vista at Domaine Drive, Sparks Boulevard at Ion Drive, and Golden Valley at Estates Drive.

Traffic Engineering (TE) Spot 10 - South Project

The project is currently in the preliminary design phase and includes:

- A new roundabout at the intersection of 4th Street and Woodland Avenue;
- Geometric improvements at the nearby intersection of 4th Street and Mesa Park Road; and a
- Left turn bay extension for the southbound left turn lane at South Virginia and Kietzke Lane.

Sixty percent (60%) design is scheduled for submittal at the end of May 2021.

Traffic Engineering (TE) Spot 10 - North Project

The project is currently in the preconstruction stages. The following intersection will be improved with this project:

- Traffic Signal improvements at the intersection of El Rancho Drive/Victorian Avenue.

The project opened bids on March 5, 2021. The construction contract has been awarded to Sierra Nevada Construction (SNC). Construction is anticipated to begin in August 2021.

CORRIDOR IMPROVEMENT PROJECTS

Arlington Avenue Bridges

The Arlington Avenue Bridges Project begins with a feasibility study to analyze possible replacement bridge types and aesthetic themes, document design and environmental criteria, improve safety and multi-modal access in the Wingfield Park area, and review flood capacity requirements. The crossing of the Truckee River at Arlington Avenue has served the community of Reno and provided access to Wingfield Park for nearly a century. The bridges were built in the 1930's and while structurally safe to drive over they are showing signs of wear resulting from the variety of modifications over the years, their age, and the repeated exposure to flood events. The second and final public information meeting was held virtually the month of March. Over 350 people responded to the survey posted with the public meeting. The team is compiling input gathered from the community so final recommendations can be made. NDOT, FHWA and the City of Reno will review final recommendations prior to feasibility being completed. Once the feasibility study is complete, a Request for Proposals will be advertised for the NEPA/Design phase of the project. Construction of the bridges is anticipated to begin in 2025.

Lemmon Drive Project

The project includes widening Lemmon Drive from US 395 to Military Road from four lanes to six lanes and reconstructing the US 395/Lemmon Drive interchange (Segment 1) and improving Lemmon Drive from Fleetwood Drive to Ramsey Way (Segment 2). Final Design plans for Segment 1 is ready for contractor bidding. The anticipated construction start date is June 2021. The project team continues the Level 2 screening process for the top three alternatives. The top three alternatives were presented to the RTC Board at the August 20, 2020, meeting. The Level 2 screening process includes a qualitative evaluation where the top alternatives are screened on the criteria developed and agreed upon by the RTC's Technical Advisory Committee (TAC).

Oddie Boulevard/Wells Avenue Improvement Project

One hundred percent (100%) design plans and solicitation documents were submitted to the City of Reno and Sparks for review. Advertisement for bids to be published by mid-April 2021. RTC is in the negotiation process with Nichols Consulting Engineers (NCE) for construction management services. NCE was the highest scored firm and was selected via consensus after evaluation of four proposals received. The Professional Services Agreement (PSA) will be presented to the RTC Board in May. Additional project information can be viewed at: <http://oddiewellsproject.com/>.

Pyramid Highway and US 395 Connection

Working with FHWA, the RTC transferred the \$23 million BUILD Grant that was received from the USDOT to NDOT for construction of Phase 1 that is scheduled to begin in 2023. NDOT continues to work on the design that consists of increased roadway capacity and multimodal improvements on Pyramid from Queen Way to Golden View Drive. Design of this phase is scheduled to be complete in August 2022, and the estimated overall Phase 1 cost is \$54.1 million. In January 2021, the RTC Board and NDOT approved an Interlocal Agreement associated with Phase 1. The agreement establishes the funding and administrative responsibilities for the remainder of the project. NDOT will administer remaining activities including right of way acquisition, utility relocation and construction.

Sun Valley Boulevard Corridor Improvement Project

Construction activities resumed at the intersection of Sun Valley Boulevard and 7th Avenue. Work is expected to be complete by June 2021. Improvements include added capacity and safety at the intersection, along with traffic signal upgrades. The project included two illuminated crosswalks with flashers at Quartz Lane and Middle Fork Lane, ADA ramps, sidewalk, and bus stops to serve the extension of Bus Route 5. Pavement was reconstructed and striped to add bicycle lanes. Additional information can be viewed at: <http://SunValleyBlvd.org>

Truckee River Shared Use Path Project

The proposed pathway will start at John Champion Memorial Park and continue along the south side of the Truckee River. RTC is working to acquire easements necessary for the pathway. This project was included in the fiscal year (FY) 2017 Program of Projects. The design portion of this project is funded through federal funds and includes oversight by NDOT through a Local Public Agency (LPA) agreement. The project is agreed to be constructed by NDOT through the agreement approved for Spaghetti Bowl Xpress (SBX) after RTC completes NEPA and the required acquisitions. The 408 permit required by United States Army Corp of Engineers (USACE) 408 permit is in its final stages prior to approval.

Virginia Street RAPID Extension

Revenue service for the Virginia Street Bus RAPID Transit Extension to UNR commenced on March 6, 2021. The project is finalizing contract close out activities. Additional information can be viewed at: <http://virginiastreetproject.com/>

PAVEMENT PRESERVATION PROJECTS

2021 Preventive Maintenance (Various Locations)

The 2021 Preventive Maintenance project consists of patching, crack sealing and slurry seal activities on approximately 200 lane miles of roadway. Lumos and Associates, Inc., is currently working on the scope for this year's program and candidate roadways and striping plans have been submitted to the local agencies for review and prioritization. The project advertised on April 1, 2021, with bids opening on April 22, 2021.

Golden Valley Road Rehab Project

The project includes rehabilitation/reconstruction of Golden Valley Road from Yorkshire Drive to North Virginia Street. Lumos & Associates, Inc., is the consultant for design and engineering during construction services. The RTC and Union Pacific Railroad (UPRR) have entered into an agreement for railroad crossing improvements. Construction bids were opened on March 25, 2021. Construction is anticipated to begin in the spring of 2021 and be complete by the end of the summer of 2021.

Kings Row Rehab Project – Phase 1

The project includes rehabilitation/reconstruction of Kings Row from Keystone Avenue to Wyoming Avenue. Lumos and Associates, Inc., is the consultant for design and engineering during construction services. The RTC is working to conclude progressing of necessary rights to easements for ADA compliance. RTC is working to organize bidding of the project for construction to begin in summer 2021.

Kings Row Rehab Project – Phase 2

The project includes rehabilitation/reconstruction of Kings Row from Wyoming Avenue to McCarran Boulevard. Lumos and Associates, Inc., has been selected as the consultant for design and engineering during construction services. Preliminary design and field investigation related work is underway and on track for this project. Construction is expected to begin in spring/summer of 2022.

Newport Lane Rehab Project

The project includes rehabilitation/reconstruction of Newport Lane from Link Lane to McDaniel Street. CA Group is the consultant for Design and Engineering During Construction Services. Design will be complete in early 2021. The construction start date is anticipated to begin in summer of 2021.

Peckham Lane Rehab Project

The project includes rehabilitation/reconstruction of Peckham Lane from S. Virginia Street to Baker Lane. The project also includes driveway, sidewalk and curb ramp improvements. Traffic signal improvements at the intersection of Peckham and Baker are planned as well as providing fiber optic interconnectivity between South Virginia Street and Baker Lane. Engineering work has started with preliminary design expected to be complete by May 2021. Construction is anticipated to begin late spring/early summer of 2022.

Reno Consolidated 20-01 – Mayberry Drive, California Avenue, and First Street

The project includes rehabilitation/reconstruction of the following street segments: Mayberry Drive from Memory Lane to California Avenue, California Avenue from Hunter Lake Drive to Booth Street and First Street from Sierra Center to Virginia Street. Nichols Consulting Engineers (NCE) is working on incorporating agency/public comments, design and grading of improvements. Utility coordination meetings and property acquisitions are ongoing. One hundred percent (100%) Design submittal is scheduled for June. Utility adjustments and relocations being performed by NV Energy are underway and Truckee Meadows Water Authority work will begin in May. The project will be advertised for bids in late October.

Reno Consolidated 21-01 – Lund Lane, Armstrong Lane, and Yuma Lane

The project includes rehabilitation/reconstruction of the following street segments: Lund Lane from Wedekind Road to Northtowne Lane; Armstrong Lane from Susileen Drive to Yuma Lane and Yuma Lane from Armstrong Lane to Hunter Lake Drive. Eastern Sierra Engineering (ESE) is the consultant providing design and engineering during construction services. The project team is currently incorporating agency design review comments and public comments received in September. Design of the project is complete. Bids were opened on February 17, 2021, with Sierra Nevada Construction the lowest bidder.

- Construction has begun with the Lund Lane portion of the project, with expected completion by April 9, 2021.
- Yuma Ln and Armstrong Ln construction will start on April 12, 2021, with an expected completion of mid-June.

Reno Consolidated 22-01 – Sky Valley Drive and Sky Mountain Drive

The project includes rehabilitation/reconstruction of the following street segments: Sky Valley Drive from Summit Ridge Drive to the Highland Ditch and Sky Mountain Drive from the Highland Ditch to Summit Ridge Drive. Eastern Sierra Engineering (ESE) has completed all field investigations and topographic survey work. ESE is working on preliminary design, identification of existing utilities, horizontal layout of improvements, and analyzing bus stop improvements, including connectivity. Fifty percent (50%) design was submitted in March. The team is working on addressing agency comments and grading. Construction is scheduled to begin in the spring of 2022.

Sky Vista Parkway Rehabilitation Project

The project includes rehabilitation/widening of Sky Vista Parkway from just east of Vista Knolls Parkway to Silver Lake Road. Atkins Engineering, SNA-Lavalin (Atkins) is the consultant for design and engineering during construction services. Final design is anticipated to be complete in fall 2021. A right-of-way setting meeting was held and easements, both temporary and permanent, have been identified. Design of landscaping and retaining wall structures will be included in the ninety percent (90%) submittal scheduled for April 2021. Advertisement for bids will follow right-of-way acquisition in March 2022.

Sparks Consolidated 21-01 – Packer Way and Wild Island Court Project

The project includes rehabilitation/reconstruction of Packer Way from Glendale Avenue to the Cul de Sac and Wild Island Court from Lincoln Way to the Cul de Sac in the City of Sparks. Wood Rodgers Inc. is the consultant for design and engineering during construction services. The construction contract was awarded to Granite Construction. Work on Wild Island Court will begin on April 12, 2021.

REPORT ON NEGOTIATED SETTLEMENT AGREEMENTS FOR THE ACQUISITION OF PROPERTY

Project	Property Owner	Purchase Amount	Amount Over Appraisal
Kings Row Rehabilitation & Reconstruction Project	R & J Group III, LLC	\$1,000	\$0
Bus Stop Improvement and Connectivity Program Project	J-Plus Properties, LLC	\$1,000	\$0
Lemmon Drive Widening Project	North Peak Apartments, LLC	\$48,000	\$9,960

CONTRACTS UP TO \$100,000

SPV Associates, Inc. dba OnIndus in the not-to-exceed amount of \$66,000 for program management support services.