



## **REGIONAL TRANSPORTATION COMMISSION**

*Metropolitan Planning • Public Transportation & Operations • Engineering & Construction*

Metropolitan Planning Organization of Washoe County, Nevada

**MEETING DATE:** May 21, 2021

**AGENDA ITEM 4.4**

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

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### **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 second construction package was advertised for bids in May and construction is anticipated to begin in June, with completion by October. The Phase 2 construction package includes 29 bus stop locations scattered throughout Reno, Sparks and Washoe County.

##### 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 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 construction bids is planned to occur in May 2021, with construction beginning in July 2021. Construction will take approximately four (4) months to complete.

## **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 pedestrians and bicycles. Titan Electrical Contracting was awarded the construction contract on April 23, 2021. Construction is anticipated to begin at the end of this month.

### 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

The project is currently in the preliminary design phase. Kimley-Horn and Associates 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), has initiated an Environmental Assessment (EA) to evaluate and document the proposed project's potential impacts between the Interstate 80 (I-80) westbound ramps and Baring Boulevard.

RTC has identified potential regional traffic impacts that could result from constructing the Sparks Boulevard Project simultaneously with construction of Phase 1 of the Pyramid Highway US 395 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 the 2022 construction season. This segment of the project is advancing through preliminary design. The remainder of the Sparks Boulevard Project, from the I-80 westbound ramps north to the Baring Boulevard intersection, is anticipated to be constructed in the 2024/2025 timeframe and continues to be analyzed as part of the NEPA process. Preliminary design efforts on the second segment are underway to capture impact limits associated with the EA analysis.

#### 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 each 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 meet current standards.

#### Progress through April 2021:

- N. Virginia Street BRT Project – TSP signal timing – Design/Implementation in progress
- S. McCarran Boulevard (22 Signals) – Mill Street to Cashill Boulevard – Estimated completion June 2021
- W. McCarran Boulevard (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 at the intersection of Sharlands Avenue and Mae Anne Avenue (now active);
- Installation of battery backup systems for signalized intersections on Sun Valley Drive from Scottsdale Road to 7<sup>th</sup> Street; and
- Minor striping improvements to improve traffic flow at Pyramid Way at York Way.

The project is substantially complete.

#### Traffic Engineering (TE) Spot 9 – Package 2 Project

The project included 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
- 4<sup>th</sup> Street/Mesa/Woodland intersection study for future improvements.

The project is complete.

#### 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 16<sup>th</sup> Street; and
- Rectangular Rapid Flashing Beacon (RRFB) installation at various locations within Reno, Washoe County and Sparks, including Western Skies Drive near Brown Elementary School, Steamboat Parkway at Horse Ranch Road, Mayberry Drive at Keele Drive, 7<sup>th</sup> at McDonald Drive, Sadleir Way at Valley Road, Vista at Domaine Drive, Sparks Boulevard at Ion Drive, and Golden Valley Road at Estates Road.

#### 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 4<sup>th</sup> Street and Woodland Avenue;
- Geometric improvements at the nearby intersection of 4<sup>th</sup> Street and Mesa Park Road; and a
- Left turn bay extension for the southbound left turn lane at South Virginia Street 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.

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

## **CORRIDOR IMPROVEMENT PROJECTS**

### Arlington Avenue Bridges

The Arlington Avenue Bridges Project began 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. Results from the March 2021 virtual final public information meeting have been compiled and are posted on the website. The survey results confirm moving forward with the final recommendation of the Single Pier bridge type. NDOT, FHWA and the City of Reno are reviewing the final recommendations. Once their review is complete, the feasibility study will be finalized. Request for Proposals for consulting services for the NEPA/Design phase of the project will be advertised this summer. 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). Construction bids for the Segment 1 and Interchange project were opened on April 29, 2021. The project was awarded to the low bidder, Q&D Construction. Construction is anticipated to begin in June 2021.

The project team continues the Level 2 screening process of the top three (3) alternatives for the Segment 2 Phase of the project. The top three (3) alternatives, screened and agreed upon by the Technical Advisory Committee (TAC), were presented to the RTC Board at the August 20, 2020, meeting. The Level 2 screening process includes a qualitative evaluation of the three remaining alternatives. Results of that screening process and recommendations of a preferred alternative is anticipated to be complete later this year.

### Oddie Boulevard/Wells Avenue Improvement Project

One hundred percent (100%) design plans and solicitation documents were submitted to the City of Reno and the City of Sparks for review. Advertisement for construction bids was published on April 28, 2021. Construction activities are expected to start in July 2021 and extend for three (3) construction seasons, with completion in early 2024. Additional project information may be viewed at: <http://oddiewellsproject.com/>.

### Pyramid Highway and US 395 Connection

NDOT continues to work on the design that consists of increased roadway capacity and multimodal improvements on Pyramid Highway, from Queen Way to Golden View Drive. Design of this phase is anticipated to be complete in August 2022. The estimated overall Phase 1 cost is \$54.1 million. Working with FHWA, the RTC transferred the \$23 million BUILD Grant that it received from the USDOT to NDOT for construction of Phase 1 that is anticipated to begin in 2023 and take approximately eighteen (18) months to complete.

### Sun Valley Boulevard Corridor Improvement Project

Construction activities resumed at the intersection of Sun Valley Boulevard and 7<sup>th</sup> Avenue. Work is expected to be complete by June 2021. Improvements include added capacity and safety at the intersection and traffic signal upgrades. The project included two (2) illuminated crosswalks with flashers at Quartz Lane and Middle Fork Lane, ADA ramps, sidewalk, and bus stops to serve the extension of RTC RIDE Route 5. Pavement was reconstructed and striped to add bicycle lanes. Additional information may 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 begin paid 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 property acquisitions and easements. 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. Contract close out activities are being finalized. Additional information may 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. Bids were opened on April 22, 2021, and the project has been awarded to Sierra Nevada Construction (SNC). Work is anticipated to begin this month.

### 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. A contract was awarded to the low bidder, West Coast Paving Inc. Construction is anticipated to begin following completion of planned railroad crossing improvements by UPRR. Construction will be complete by the end of summer 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 the progressing of necessary rights to easements for ADA compliance. Construction is anticipated to begin in June 2021 and be complete this fall.

### 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 completed preliminary design and field investigation related work and is commencing with final design for this project. Construction is expected to begin in the 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 design and engineering during construction services. Design is complete. Solicitation documents are being finalized for advertising for bids later this month. Construction is anticipated to begin in August 2021 and take approximately two (2) months to complete.

#### 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 Lane and Baker Lane are planned in addition to providing fiber optic interconnectivity between South Virginia Street and Baker Lane. Preliminary design is underway. 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 2021. Utility adjustments and relocations, being performed by NV Energy, are underway. Truckee Meadows Water Authority work will begin later this year. The project will be advertised for construction bids later this year.

#### 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 design and engineering during construction services. Sierra Nevada Construction was awarded the construction contract earlier this year. Construction is underway and expected to be complete by 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 2021. The team is working on addressing agency comments. 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 needed easements, both temporary and permanent, have been identified. Design of landscaping and retaining wall structures will be included in the 90% submittal scheduled for May 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 is complete. Work on Packer Way has begun and will be complete in June.

**REPORT ON NEGOTIATED SETTLEMENT AGREEMENTS FOR THE ACQUISITION OF PROPERTY**

<b>Project</b>	<b>Property Owner</b>	<b>Purchase Amount</b>	<b>Amount Over Appraisal</b>
Mill Street Complete Street Project	Hidden Valley Tech Center, LLC	\$1,310.00	\$0
Bus Stop Improvement and Connectivity Program Project	DB Investments Limited Partnership	\$1,500.00	\$0
Lemmon Drive Widening Project	Reinhardt Goll Family Trust	\$40,356	\$0
Lemmon Drive Widening Project	Reinhardt Goll Family Trust	\$12,804	\$0
Lemmon Drive Widening Project	BDF Trust	\$90,680	\$0
Lemmon Drive Widening Project	AutoZone Development LLC	\$15,240	\$0
Lemmon Drive Widening Project	United Federal Credit Union	\$30,950	\$0
Lemmon Drive Widening Project	Camino Viejo Investments, LLC	\$353,066	\$21,656

**CONTRACTS UP TO \$100,000**

DocuSign Inc., in the amount of \$4,050 for electronic signature services.