July 17, 2020

TO: Regional Transportation Commission

FROM: Brian Stewart, P.E.
      Engineering Director

SUBJECT: RTC Engineering Activity Report

RECOMMENDATION

Acknowledge receipt of the monthly Engineering Activity Report.

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. As easements are acquired, additional construction bus stop designs will be packaged and advertised for bids later this year.

Center Street Cycle Track Project
Headway Transportation completed the Traffic Analysis of the proposed alternative, which includes a two-way cycle track along Center Street from Cheney to 9th Street. The final report is being prepared along with a design proposal that include updated project limits to mitigate project impact.

Mill 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.
Preliminary design is complete and 90% plan comments have been received from the agencies. An Amendment to the design contract has been approved that will split the project into two phases and provide for construction management services. Phase 1 will be from Rock Boulevard to McCarran Boulevard and Phase 2 will be on Mill Street from Terminal Way to Rock Boulevard. Right-of-way impacts have been identified and the right-of-way process for Phase 1 is beginning. The two phases will be constructed consecutively over a 5-year timeframe.

CAPACITY/CONGESTION RELIEF PROJECTS

ITS Pilot Project, Design of Phase 2 ITS Connectivity
The pilot project connected traffic signal systems of the City of Reno, the City of Sparks, Washoe County, and NDOT through fiber optic communication lines. This project also includes design of Phase 2A and 2B, which will expand communication to outlying signal systems and install ITS devices to monitor and remotely adjust traffic signals to respond to special events, changing traffic conditions, provide information to drivers and traffic incidents. Construction of the Pilot Project is complete. The ITS Phase 2A Project is complete. Phase 2B is currently under construction with a tentative completion in summer 2020.

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 N. Virginia Street to US 395
- Rock Boulevard from Greg Street to Prater Way

Also included in ITS Phase 3 is a Road Weather Information Sensors (RWIS) at Sharlands Avenue at Robb Drive. The project will install 20 Gridsmart Performance Packages. These are upgrades to existing Gridsmart detection systems and can detect/count pedestrian and bicycles. Currently, the project is in the preliminary design phase.

North Valleys Package 3B
Package 3B is currently at 100% design. 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. Construction is anticipated to begin this summer.

Sparks Boulevard Project
The project seeks to increase safety, maintain 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. to begin environmental studies and preliminary design.

The project team began reviewing the environmental resources that must be analyzed for the National Environmental Policy Act (NEPA) process. A reconnaissance survey of the project area was conducted to determine wetlands area and waters of the U.S.
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 re-timed back in 2016, will be re-evaluated and re-timed to address the changes to traffic demand. For 2020, roughly 95 intersections will have revised timing implemented. Timing plans are developed in coordination with RTC/UNR. In the process, re-evaluation of the other settings such as vehicle passage times are calculated at each intersection to make sure it is up to current standards.

Progress as of July 2020
- Updating Vehicle and Pedestrian Intervals at various intersections (approx. 90 signals) – Completed
- N. McCarran Boulevard & Clear Acre Lane (10 Signals) – Sutro St. to Sullivan Ln – New timing plans completed and ready to implement.

*Due to the reduction of traffic in the region due to Covid-19, implementation of new signal timing is on hold until normal traffic patterns return.*

Traffic Engineering (TE) Spot 9 – Package 1 Project
The project includes:
- Traffic signal at the intersection of Sharlands Avenue and Mae Anne Avenue;
- 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
- Traffic study with potential improvement to southbound right turn lane at the intersection of Vista Boulevard and Baring Boulevard. This component of the project will not move forward due to the cost associated with the improvement not justifying the benefit.

Project advertised June 2020 with construction to begin in summer 2020.

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.

Bids were opened on June 18, 2020. Titan Electrical Contractors was awarded the contract. Project construction is scheduled to begin in August.
CORRIDOR IMPROVEMENT PROJECTS

Arlington Avenue Bridges
The Arlington Avenue Bridges Project is 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 team has developed two technical advisory committees TACs, one specific to permitting and regulatory requirements and one focused on bridge and roadway elements. TAC meetings are scheduled in July and Stakeholder Working Group meetings will follow later this year.

Kuenzli St. Conversion Project
This project includes the conversion of Kuenzli Street from its current one-way configuration to a two-way street from Giroux Street to Kirman Avenue. The scope of the project consists primarily of surface treatment and restriping to accommodate the conversion of Kuenzli from one-way to two-way traffic from Kirman Avenue to Giroux Street. Associated ADA and traffic signal modifications are included on both Kuenzli Street and Giroux Street. The project is in the final design stage and is anticipated to advertise for construction bids in July 2020.

Oddie Boulevard/Wells Avenue Improvement Project
Final Design is underway and it is expected to be complete by November 2020. Working closely with City of Reno, Sparks and NV Energy to coordinate the screen wall location. Additional information can be viewed at: http://oddiewellsproject.com/.

Pyramid Highway and US 395 Connection
NDOT continues to work on design of Phase 1 of the project that consists of capacity and multimodal improvements on Pyramid from Queen Way to Golden View Drive and design of this phase is anticipated to be complete in 2023. Pending funding, construction of Phase 1 could begin in 2023. The estimated overall Phase 1 cost is $45 million. With support from NDOT and others, the RTC submitted an application for a BUILD grant in the amount of $25 million from the Federal Highway Administration to help fund Phase 1. Based on the previous application for the same, results will likely be provided this fall.

Sun Valley Boulevard Corridor Improvement Project
Construction of Phase 1 (7th Avenue to Highland Ranch Parkway) has begun and is expected to last 135 working days or approximately seven (7) months. Construction along the west side of Sun Valley Boulevard from 7th Avenue to Middle Fork started on June 22, 2020. Traffic control during construction includes lane closures, but two-way traffic will be maintained with flaggers. During the extensive pavement rehabilitation work, the southbound traffic will be detoured and the northbound traffic will be open. 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. The application for the required United States Army Corp of Engineers (USACE) 408 permit has been approved by Carson Truckee Water Conservancy District contingent on approval by the USACE. The Truckee River Shared Use Path Project has submitted an application to USACE for a Section 408 Permit since portions of the pathway encroach the 14,000 cubic feet per second water surface elevation along the Truckee River. During coordination and submittal of permit, the USACE informed RTC of the ability to enter into a Funding Agreement to ensure continued review of the application through periods when the annual federal budget for review is exhausted. The USACE receives an annual federal budget to process and review 408 permit applications. RTC has been informed that USACE is expected to exhaust available funds for the review 408 permit applications sometime in July 2020 and will not receive additional funds to continue review of applications until start of the next federal fiscal year. When budgeted USACE funds are exhausted, only those applications with funding agreements are reviewed. The estimated amount of the funding agreement required is estimated to be $30,000.

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 will be constructed by NDOT through the agreement approved for Spaghetti Bowl Xpress (SBX).

Virginia Street RAPID Extension
A detailed written report is included as a separate Board agenda item for this month. Additional information can be viewed at: http://virginiastreetproject.com/

PAVEMENT PRESERVATION PROJECTS

2020 Preventive Maintenance (Various Locations)
The 2020 Preventive Maintenance program is underway. This will provide patching, crack sealing, and slurry seal activities on approximately 200 lane miles of roadway. Bids were opened in April and the contract has been awarded to Sierra Nevada Construction (SNC). Patching, crack sealing and slurry sealing work is underway and is anticipated to be complete this fall.

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. Final design is under review with Union Pacific Railroad (UPRR). The scheduled construction start date is August 2020 with a scheduled completion in October 2020.
**Greg Street Rehab Project**
The project includes corrective maintenance of Greg Street from McCarran Boulevard to the Union Pacific Railroad Tracks. Wood Rodgers, Inc. is the consultant for Design and Engineering During Construction. The construction contract was awarded to Sierra Nevada Construction (SNC). Construction began in June with a scheduled completion in mid-August 2020.

**Kings Row Rehab Project**
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 preliminary plans are complete. This project is on track for construction in early 2021.

**Lakeside Drive Rehab Project**
The project includes rehabilitation/reconstruction of Lakeside Drive from Evans Creek Drive to McCarran Boulevard. Eastern Sierra Engineering is the consultant for Design and Engineering During Construction Services. Sierra Nevada Construction (SNC) is the construction contractor. Construction began in July and is anticipated to be complete in September 2020.

**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. CA Group has started the preliminary design. The construction schedule is yet to be determined.

**Prater Way Rehab Project**
The project includes rehabilitation/reconstruction of Prater Way from Howard Drive to Sparks Boulevard. Stantec Consulting Services, Inc. is the consultant for design and engineering during construction. The contract was awarded to Spanish Springs Construction, Inc. (SSC) and work began in April with a scheduled completion of October 2020. Sewer replacement work is ongoing, shallow conduits are being lowered, and SSC anticipates beginning roadway removal in early August.

**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) submitted 50% design review to agencies in early July. Utility coordination meetings and R/W activities are underway. Comments received from the virtual project presentation that went live on May 27, 2020 have been posted to the website. Construction is anticipated to occur in 2021.

**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 Norhtetowne Lane; Armstrong Lane from Susileen Drive to Yuma Lane; and Yuma Lane from Armstrong Lane to Hunter Lake Drive. Eastern Sierra Engineering, P.E. (ESE) is the consultant for Design and Engineering During Construction Services. The preliminary design is under agency review.
Sky Vista Parkway Widening and Rehabilitation Project
The project includes rehabilitation/widening of Sky Vista Parkway from just west of Lemmon Drive to Silver Lake Drive. Atkins Engineering, SNA-Lavalin (Atkins) is the consultant for Design and Engineering During Construction Services. Atkins is in the preliminary design phase with 50% design scheduled for the end of August 2020.

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. Design activities have begun.

OTHER PROJECTS

Park Lane RAPID Station Project
The project includes architectural services, design services, and construction of a RAPID station located just south of Plumb Lane on the east side of Virginia Street. Stantec Consulting Services, Inc. is the consultant for architectural and engineering design services. The Professional Services Agreement was effective March 18, 2019. The construction contract was awarded to Q&D Construction. Construction is scheduled to begin in July and be substantially complete in October 2020.

REPORT ON NEGOTIATED SETTLEMENT AGREEMENTS FOR THE ACQUISITION OF PROPERTY
None

CONTRACTS UP TO $50,000

Johnson Perkins Griffin in the amount of $2,500 for an appraisal on the TE Spot 9, Package 1 and in the amount of $2,500 for an appraisal on the TE Spot 9, Package 2.

ENGINEERING ON-CALL WORK ASSIGNMENTS

Attachment A summarizes the work assignments on the engineering pre-qualified on-call lists. Engineering Department consultant assignments are reported after Board approval of the professional services agreement with each firm.

ADVISORY COMMITTEE(S) RECOMMENDATION

There are no advisory committee recommendations pertaining to this agenda item.

Attachment
## On Call Consultant Summary

### Civil Engineering Design and Construction Management Services

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### Traffic Engineering Services

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<td>TE Spot 10 - South</td>
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Engineering Design and Construction Management Services  
List valid through June 20, 2022

Atkins North America, Inc.
CA Group, Inc.
Eastern Sierra Engineering, PC
Jacobs Engineering Group, Inc.
Lumos and Associates, Inc.
Nichols Consulting Engineers, CHTD
Stantec Consulting Services, Inc.
Wood Rodgers, Inc.

Traffic Engineering Services - Categories  
List valid through April 19, 2022

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