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) advertised in February. Spanish Springs Construction was awarded the contract and construction is complete. The process of obtaining necessary easements for other locations is ongoing. Once easements are acquired, additional construction packages will be advertised. CA Group continues to work on design for other stops. A 100% Review Package for Phase 2 stops and a 60% Review Package for Phase 3 stops was submitted in February. Another 60% Review Package for Phase 4 stops will be submitted in April.

Center Street Cycle Track Project
The PSA with Headway Transportation was approved at the September 2019 Board Meeting. The scope of services for additional Traffic Analysis of the proposed alternative, which includes a two-way cycle track along Center Street from Cheney to 9th Street, is underway. A draft report with the results has been shared with stakeholders from City of Reno.

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 have been 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. It is anticipated 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
This pilot project will connect 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 spring 2020.

Lemmon Drive Project
The project includes widening Lemmon Drive from US 395 to Military Road from four lanes to six lanes and widening Lemmon Drive from Fleetwood Drive to Chickadee Drive from two lanes to four lanes. Professional engineering services are underway with Jacobs Engineering Group, Inc. Preliminary design is ongoing for Segment 1 (US 395 to Military Rd). For Segment 2 (Fleetwood Drive to Chickadee Drive), the Technical Advisory Committee (TAC) met in March and developed a range of possible roadway alternatives to be evaluated. The RTC is working closely with Washoe County and the City of Reno to coordinate nearby regional improvements. A separate more detailed written report is provided this month also.

North Valleys Improvements
Package 3 constructed a new traffic signal at the Lemmon Drive/North Virginia Street intersection and it is substantially complete.

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 of this package is tentatively scheduled for spring of 2020, pending NDOT reviews.

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. In October 2019, the RTC Board authorized the procurement for the selection of engineering design services. An anticipated Professional Services Agreement with the top-ranked firm will be presented to the RTC Board for possible action in April 2020.
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 April 2020
- Oddie Blvd (12 Signals) – Sutro Street to E 12th Street – Completed
- Updating Vehicle and Pedestrian Intervals at various intersections (approximately 120 signals) – In progress
- N. McCarran Blvd & Clear Acre (10 Signals) – Sutro Street to Sullivan Lane – 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 pattern returns.*

Traffic Engineering (TE) Spot 8 – Package 1 Project
The project was awarded to Titan Electrical Contracting. Underground work complete. Construction currently on hold pending arrival of traffic signal poles.

The scope of this project includes:

- Flashing Yellow Arrow – East/West
  Keystone Avenue at 7th Street
  East Lincoln Way at Marina Gateway Drive
  Mill Street at Kirman Avenue

- Flashing Yellow Arrow – North/South
  McCarran Boulevard at Neil Road

- Battery Back-Up Systems
  Mae Anne Avenue at Coit Plaza
  Oddie Boulevard at I-80 Ramps (both sides)
  Wells Avenue at I-80 Ramps (both sides)
  Wells Avenue at 6th Street

- Traffic Signal
  Evans Avenue at Enterprise Road

Traffic Engineering (TE) Spot 8 – Package 2 Project
The project includes a new traffic signal and slurry seal at the intersection of Red Rock Road and Silver Lake Road, and capacity improvements at the North McCarran Boulevard and U.S. 395 Interchange.

Construction of the traffic signal at Red Rock/Silver Lake intersection is complete and as of March 30, 2020, the signal has been operating. Remaining work includes slurry seal. Dependent on weather, it is scheduled to be complete in late April/early May 2020.

Work on the McCarran portion of the project is slated to start at the same time as when the slurry seal is done at the intersection of Red Rock/Silver Lake. An additional westbound through lane and signal modifications are part of this improvement.

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.

Design is underway with Westwood Professional Services as the design consultant. Project advertisement is scheduled for May 2020 with construction in spring/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.

Project is moving forward towards 100% design completion in mid-April. Advertisement for bidding will be begin in May.

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 1930s 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 is working towards defining the lead agency from a funding perspective and preparing materials for upcoming TAC meetings. Preparation for the second Stakeholder Working Group meeting is ongoing. Stakeholder Working Group meeting 2 is anticipated to be held in May.

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 main portion of the project is summarized below:

1. Kuenzli Street from Kirman Avenue to Giroux Street
   a. Surface treatment for preventative maintenance and striping revisions
   b. Conversion of one-way to two-way
   c. Signal modification associated with conversion
   d. Potential for addition of up to four transit stop pads
   e. Potential incorporation of conduit for City of Reno fiber optic installation. City of Reno to provide number and size of conduit desired (included as an optional task)

2. Kirman Avenue from the south end of the bridge over the Truckee River to East 2nd Street
   a. Surface treatment for preventative maintenance and striping revisions
   b. Striping and signal modifications to allow two-way movements on Kuenzli Street
   c. Pedestrian ramp replacement at Kirman Avenue and Kuenzli Street intersection
   d. Potential incorporation of conduit for City of Reno fiber optic installation. City of Reno to provide number and size of conduit desired (included as an optional task)

3. Giroux Street from Kuenzli Street to East 2nd Street
   a. Surface treatment for preventative maintenance and striping revisions
   b. Conversion of one-way to two-way
   c. Striping modifications to allow two-way movements
   d. May need modifications at roundabout.

Based on the traffic study, the project is moving forward with design with the above mention summary. The traffic signal at Kuenzli and Locust will be removed. The project is currently moving towards 90% design.

Oddie Boulevard/Wells Avenue Improvement Project
Sixty percent (60%) design plan submission to the cities of Reno and Sparks was provided in the middle of November 2019. A public meeting was held on Thursday, January 23, 2020, at the Washoe County Senior Center in Reno.

The agreement to move forward with Final Design services with Stantec Consulting Services, Inc. was approved. Final design is scheduled for the end of October 2020.

Pyramid Highway and US 395 Connection
The estimated cost of the overall project is $800 million and will relieve congestion on the Pyramid Highway, McCarran Boulevard and other regional roads and provide connectivity between the North Valleys, Sun Valley and Spanish Springs. The project is planned to occur in
multiple phases over approximately a 15 to 20 year period and is included in the RTP. NDOT has completed 30% design of Phase 1 of the project that consists of capacity and multimodal improvements on Pyramid from Queen Way to Golden View Drive. Design is anticipated to be complete in 2022. Pending funding, construction of Phase 1 could begin in 2023. The estimated cost of Phase 1 is approximately $56 million. The RTC with support from NDOT and others will be applying a second time for a BUILD grant from the Federal Highway Administration to help fund Phase 1.

Sun Valley Boulevard Corridor Improvement Project
Final Design for the Washoe County section between 7th Avenue and Highland Ranch Parkway is moving forward. The 100% Plans were submitted on March 18, 2020, to Washoe County and NDOT for their final comments/review. The goal is to start construction by June 2020 and be complete before school starts in August 2020. In lieu of a public meeting, a video of the project presentation and information is available at the project website: http://SunValleyBlvd.org. Public comments may be submitted directly through the website or via phone, email or letter to the project manager.

Inadequate drainage systems to handle existing storm water flow is presenting project challenges along the NDOT portion of this project between El Rancho and 7th Avenue. Discussion for a possible partnership with NDOT and Washoe County is occurring in order to address existing the drainage issues and the project design. Maintenance of the proposed new facilities may also present challenges to Washoe County, NDOT, and Sun Valley General Improvement District (GID).

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. The existing pathway in this segment of the river currently crosses to the north side of the river at the park as it continues eastward. The proposed pathway will be about 2,400 feet in length, continuing below Interstate 580 (I-580) to meet up with the existing pathway located near the Walmart east of I-580. 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.

Thirty percent (30%) design plans are complete. Project documents have been submitted to NDOT for environmental documentation (NEPA Process) that is required for the project. Once NEPA is complete, RTC will begin the ROW acquisition of properties adjacent to the pathway. In addition, RTC has submitted the application for a 408 permit to Carson Truckee Water Conservancy District and United States Army Corp of Engineers.

Virginia Street RAPID Extension
A detailed monthly progress report will be given on this project during the board meeting. 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. The project advertised on March 30, 2020 with a bid opening scheduled for April 20, 2020. Construction will start in spring 2020.

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 agency review. The scheduled construction start date is June 2020 with a scheduled completion in mid-August 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. Final design is under agency review. The scheduled construction start date is June 2020 with a scheduled completion in mid-August 2020.

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. An internal Kick-Off Meeting occurred on July 25, 2019 and a public Open House occurred at the Bartley Ranch School House on January 14, 2020. Construction is scheduled for early June 2020 with a scheduled completion in mid-August 2020. One hundred (100%) Design is under review with an advertise date of April 8, 2020 and bid opening scheduled for May 6, 2020.

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 project advertised in February and the Construction contract has been awarded to Spanish Springs Construction, Inc. Construction is scheduled to start in April 2020 with a scheduled completion of October 2020.

Reno Consolidated 19-01- Sutro Street, 1st Street, Lake Street, and State Street Project
The project includes rehabilitation/reconstruction of the following street segments: Sutro Street from Commercial Row to 4th Street and from McCarran Boulevard to 1,400’ north, 1st Street from Center to Lake, Lake Street Truckee River Bridge, and State Street from Virginia to Sinclair Street. Construction is complete with the exception of the section on Sutro from McCarran to Selmi Drive. Construction of this segment is currently underway and anticipated to be complete by the end of April 2020.
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 preliminary design and a 30% design was submitted in March 2020. A design kick-off meeting was held in April 2020 that included multiple agency departments and utility companies. Great feedback was received and a 50% Review Package will be submitted in June 2020. Construction is anticipated to occur in 2021. The project team is preparing for the first Public Information Meeting, now anticipated to be held in May 2020.

Sparks Consolidated 19-01 – 15th Street, Franklin Way, Hulda Court, and El Rancho Sidewalk Project
The project includes rehabilitation/reconstruction of the following street segments: 15th Street from C Street to Prater Way, Franklin Way from the Railroad crossing to East Greg Street, Hulda Court, and sidewalk improvements on El Rancho Drive from G Street to Oddie Boulevard. Construction on all streets listed above is substantially complete and the streets are open to traffic. Construction of the Rectangular Rapid Flashing Beacons (RRFB) at the Elementary Drive/El Rancho Drive intersection have been delayed due to easement acquisitions. The upgrades to the existing RRFBs between Elementary Drive and Oddie Boulevard are complete.

REPORT ON NEGOTIATED SETTLEMENT AGREEMENTS FOR THE ACQUISITION OF PROPERTY

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<th>Property Owner</th>
<th>Purchase Amount</th>
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CONTRACTS UP TO $50,000

Wood Rodgers in the amount of $50,000 for cost estimate preparation for 2050 Regional Transportation Plan update.


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.
# On Call Consultant Summary

## Civil Engineering Design and Construction Management Services

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## Traffic Engineering Services

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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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