



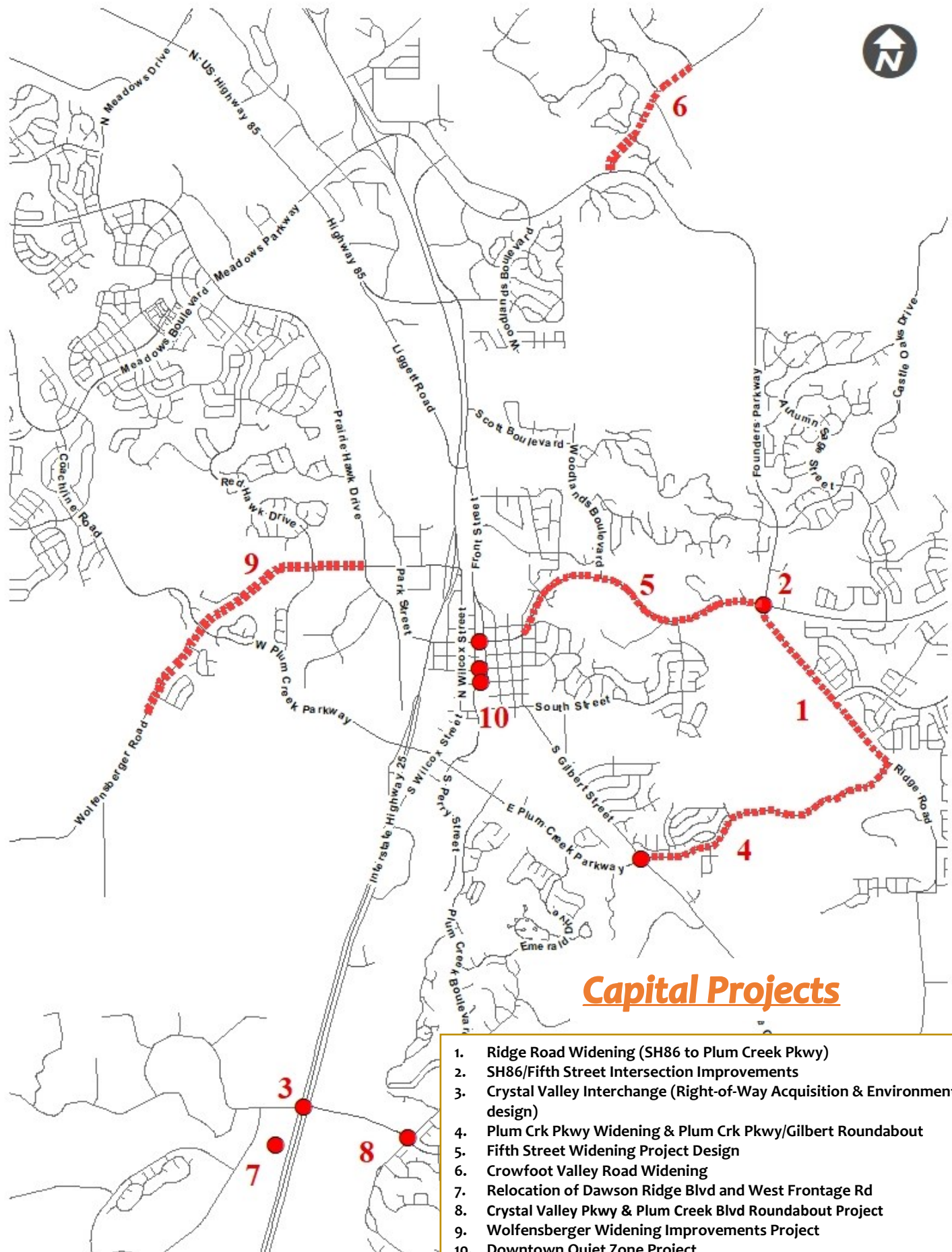
Monthly Report

July 2022

The Public Works Department operates under the **CAN DO** philosophy – We are committed to doing the job right with a positive attitude while staying dedicated to meeting the needs of our Town values and continually searching for opportunities to improve.

PW Mission: To provide outstanding service, safety and support for transportation infrastructure and maintenance.





1. **Ridge Road Widening** – Ridge Road will be widened from two to four lanes between the Founders Parkway (SH86)/Fifth Street/Ridge Road intersection and Plum Creek Parkway. The goal is to reduce traffic congestion on the Ridge Road corridor.
Phase: Construction—
 - Continue to maintain TESC BMPs
 - Continued Clearing and Grubbing
 - Continued surveying
 - Continued relocating of existing utilities
 - Started earthwork on major cuts and fills
 - Began Cement Treated Subgrade.
 - Begin forming and placing concrete for drop inlets**Budget:** \$5,225,000
ROW Acquisition: Late Summer 2022
Targeted Construction Completion: Fall 2022
2. **Founders Parkway (SH86)/Fifth Street Intersection “Four Corners” Improvements** – With new traffic studies submitted, the consultant will investigate multiple alternatives to address safety concerns and capacity issues at the intersection. Improvements under evaluation include:
 - Intersection will remain a full movement four-way intersection. Additional turn lanes and acceleration lanes will be added.
 - Traffic signal improvements will be made to incorporate the larger intersection.
 - Pedestrian and bicycle improvements will be constructed on all four sides of the project.
 - Stormwater detention and water quality improvements will be constructed to capture the additional surface volume from the new intersection.**Phase: Design—** David Evans & Associates (DEA) is the design consultant for this project. The following is a summary of the activities performed this month:
 - Pre-FOR plans were submitted; Town and CDOT comments and edits are being updated on the plans
 - FOR review with CDOT will take place in August
 - Utility relocates are under way with ZAYO and CORE to relocate existing utilities out of conflict with the future improvements
 - Offer letters have been sent to two of the four property owners; remaining two owners are awaiting their appraisal to complete offer
 - Timeline extended for appraisal at 899 Ridge Road along with P&U agreement to allow project to go out to bid on time; P&U should be completed by end of July
 - Proposals for Construction Management and Inspection Services were received and evaluated by the review team
 - Town Council approved resolution for RockSol to provide CM and Inspections Services on the Construction phase of the project**Budget:** \$1,275,676, with DRCOG Grant Reimbursement
Design Completion: 3rd quarter 2022
ROW Acquisition: 3rd quarter 2022
Targeted Construction Completion: Winter 2023-2024
3. **Crystal Valley Interchange – Pre-construction Activities** – The purpose of this project is to achieve acquisition of remaining right-of-way, complete design, and set aside future project funding allowing potential funding partnerships to assist with advancing construction.
Phase: Right-of Way Acquisition
 - Revise the ROW plans on the Hyperion property as a result of the preferred alternative configuration. Complete new appraisal for full parcel acquisition
 - West Side of I-25 – Complete property negotiations with Douglas County Development Company and Westside Development
 - East Side of I-25 – Complete property negotiations with Dawson Ridge Metro District**Phase: Design—**Interchange Access Request and Environmental Assessment Reevaluation, and Design
 - Environmental/NEPA – Team continues to work on developing impacts and mitigations section of the technical memorandum, continues to work on developing the noise verification and air quality, and land use memorandum
 - Design firm continues working on preliminary design and early construction packet
 - Design team received comments from CDOT on Initial TDM strategies memo, team is evaluating
 - The Construction Management Services RFP was posted on BidNet; pre-proposal meeting was held July 20; Addendum 1 was posted on July 22; Proposals are due August 24, 2022**Budget:** \$6,500,000, and Development Escrow
Design Completion: Summer 2023
Targeted Construction Completion: Summer 2025
4. **Plum Creek Parkway Widening and Plum Creek Parkway/Gilbert Street Roundabout Project** – This project will implement the Transportation Master Plan’s identified improvements for this corridor. The addition of the remaining two lanes of the master planned four-lane roadway on Plum Creek Parkway between Eaton Street and Ridge Road. Not only will it include the addition of two lanes, but also bicycle and pedestrian multi use lanes. It will also include roundabout modifications at Ridge Road. The improvement has been broken out into three phases in order to meet the department’s objectives. Phase 1A included portions of storm sewer improvements between Gilbert and Eaton. Phase 1B includes all roadway/utility/pedestrian access improvements between Gilbert and Eaton, including the implementation of roundabouts at the intersections of Gilbert and Eaton. Phase 2 includes all roadway/utility/pedestrian access improvements between Eaton and Ridge Road.
Phase 1B: Plum Creek Pkwy Widening and Roundabouts Gilbert to Eaton): Construction (100% Complete) - The following is a summary of activities performed this month:
 - Project team obtaining quotes for mow and weed treatment throughout project limits**Budget:** \$7,507,723
Completion: Complete

Plum Creek Parkway Widening Phase 2 – This project will implement the Transportation Master Plan’s identified improvements for this corridor. The addition of the remaining two lanes of the master planned four-lane roadway on Plum Creek Parkway between Eaton Street and Ridge Road. Not only will it include the addition of 2 lanes, but also bicycle and pedestrian multi use lanes. It will also include roundabout modifications at Ridge Road.

Phase 2: Plum Creek Pkwy Widening (Eaton to Ridge): Construction – The following is a summary of design activities performed this month:

- Completed the erosion control installation
- Began clearing and grubbing
- Installed temporary lighting at the Ridge Road Roundabout
- Started earthwork

Design & ROW Completion: Complete

Targeted Construction Completion: Fall 2023

5. **Fifth Street Widening Project Design** – Fifth Street is a major arterial connecting local and regional travel between the easterly portions of Town and I-25. Roadway and pedestrian improvements for Fifth Street have been identified within the 2017 Transportation Master Plan (TMP) that will maintain adequate capacity and ensure efficient road network connections for future development.

The Fifth Street Widening project will complete all design elements for implementation of the full build-out transportation network from South Gilbert Street to Ridge Road as identified in the TMP. The improvements include:

- Widening to accommodate future traffic demand
- Intersection improvements at Valley Drive and Woodlands Boulevard
- Implementation of on-street bike lane/shoulder from South Gilbert Street to Ridge Road
- Addition of sidewalk from Woodlands Blvd. to Ridge Road along south side of Fifth Street

Phase – Design

- Submitted and completed 30% design review
- Continued environmental investigation
- Prepping for next public open house in the fall

Budget: \$1,500,000

Design Completion: December 2022

Right-of-way acquisition: Winter 2022-2023

Targeted Construction Completion: Winter 2023-2024

6. **Crowfoot Valley Road Widening** – Crowfoot Valley Road will be widened between the Knobcone Drive and Macanta Blvd. Currently, this section of Crowfoot Valley Road is a two lane transition section of asphalt roadway with portions in the Town of Castle Rock and in Douglas County. Recent improvements have been completed at both ends of this project along Crowfoot Valley Road, and the intent of this project is to complete improvements to the “gap” between these improvements. The proposed roadway will be a four-lane section, including painted median/turn lanes, with bike

lanes in both directions.

Phase: Design: Town staff is developing conceptual design based off of Douglas County and Town comments; Town staff anticipates to send mailers out for community feedback on the two concepts in early August

Budget: \$2,000,000 (Town contribution to construction funding; IGA to be executed with County)

ROW Acquisition: Winter 2022 –2023

Design Completion: Winter 2022-2023

Targeted Construction Completion: Fall 2023

7. **Relocation of Dawson Ridge Blvd and West Frontage Rd** – The purpose of this project is to relocate the I-25 West Frontage Rd to the west of the BNSF Railroad tracks to provide access to the surrounding neighborhoods and residents after the Crystal Valley Interchange is complete.

Phase: Design – CORE Consultants is the design consultant for this project. The following is a summary of the activities performed this month:

- Design firm submitted 90% plans, and plans are in review with Town staff

Budget: \$299,000

Design Completion: Fall 2022

Targeted Construction Completion: Summer of 2025 in conjunction with Crystal Valley Interchange

8. **Crystal Valley Pkwy & Plum Creek Blvd Roundabout Project** This intersection is a major arterial currently controlled by stop signs in two directions. As the traffic volumes increase and with ongoing residential development and future construction of the new Crystal Valley Interchange, this existing traffic control will not be the most efficient and could contribute toward increased accidents. This project will accomplish the design of a roundabout intersection in order to improve the traffic capacity of the intersection, help to manage speeds along Crystal Valley Parkway, and to accommodate the growth in traffic that is expected to increase once the Crystal Valley Interchange has been constructed. This project is scheduled to be designed by June 2022, bid in June 2022, and constructed by Summer 2023.

Phase: Design—

- Continuing to work on the 90% design set based on the Towns 30% review comments and the approved variances in the design criteria
- Continuing to work with CORE on their relocation of existing power lines
- Temporary construction easement meetings are now taking place with adjacent property owners
- Working on the construction phasing plan

Budget: \$400,000

Design Completion: Fall 2022

Targeted Construction Completion: Summer 2023

9. **Wolfensberger Widening Improvements Project-** Wolfensberger Road is a major arterial connection for local and regional travel between the westerly portions of Town and I-25. Roadway and pedestrian improvements for Wolfensberger have been identified within the 2017 Transportation

Master Plan (TMP) that will maintain adequate capacity and ensure efficient road network connections for future development.

The Wolfensberger Widening Improvements Project will complete all design elements for the implementation of the full build out transportation network from the western Town limits to Prairie Hawk Drive.

- Widening roadway to a full 4-lane arterial section
- Addition of sidewalk along both sides of Wolfensberger
- Roundabout construction at Red Hawk/Auburn and Wolfensberger Intersection
- Removal of existing traffic signal at Red Hawk/Auburn
- Stormwater drainage improvements
- Implementation of on street bike lanes west/east bound

Phase: Planning/Design—

- Design contract with Jacobs Engineering was presented and approved by Town Council on July 19
- Project kickoff meeting will be August 16

Budget: \$2,500,000

Design Completion: Fall 2023

Right of Way Acquisition: 2023

Targeted Construction Completion: Fall 2024

- 10. Downtown Quiet Zone Project** - This project is to implement a quiet zone through the downtown Castle Rock area. In order to implement the quiet zone, improvements must be constructed at three railway crossings: Second Street, Third Street and Fifth Street. The scope of the improvements to be constructed with this project include: additional crossing gates, pedestrian crossing improvements, ADA improvements, sign and marking improvements, curb and gutter additions and general railroad (Union Pacific or UP) coordination. The benefits of this project will be improved safety for vehicles and pedestrians and improved quality of life for downtown businesses, residents and patrons.

Phase – Design (100% Complete) - The following is a summary of activities performed this month:

- Checking references and performing due diligence on contractors
- Preparing contract approval documents for submission

Budget: \$1,800,000

Targeted Construction Completion: Winter 2022-2023

Traffic Signal System Upgrades – This project is a multi-year signal system upgrade project that began in 2015 and is ongoing as funds are available. The project has included proven technology advances at signalized intersections, for our daily operations, and for communications between the center and each intersection.

- Staff is a part of the CDOT managed, adaptive signal system project that will implement adaptive signal timing on Founders Parkway, and Meadows Parkway, and Factory Shops Boulevard. Eight abutting Town signals will be included in the system. Detection at Front and Milestone was completed the week of June 13. The consultant is waiting on CDOT ITS to purchase a soft-

ware package for final install and operational turn on. Initial operation is set for later this summer.

- Phase II of the Town's ATSPM project includes software development and signal timing. Traffic data is being collected for signal retiming at the end of July and beginning of August. In July, staff and Kimley-Horn continued determining desired metrics for the dashboard. The release of the new version of ATSPM has been delayed, but will finally be available in the next few weeks. Kimley-Horn will update the Town's ATSPM system and use this system to perform signal retiming.

Budget: \$868,700

Targeted Construction Completion: End of year 2023

2022 Safety Projects – This project includes installing RRFBs at five locations, roadway improvements, and safety improvements on Gilbert Street.

- RRFB equipment has been ordered and will be installed by the end of August.
- Pedestrian refuges have been installed at Blackfeather Trail and Trail Boss Lane and South Street and Burgess Drive to support RRFBs, sidewalk extensions have been completed along Mickelson between Mitchell and Turnstone, and a median has been installed at Front Street and Milestone Lane. This project will be complete when striping changes are made in the next few weeks.
- As part of the Gilbert Street PMP Full Depth Replacement Project, speed management improvements including speed cushions, a raised crosswalk, and curb extension were installed. The community feedback thus far has supported the new devices. A formal evaluation of speed impacts will occur next month after the newness has settled in.

2022 Budget: \$613,000

Targeted Construction Completion: Fall 2022

Illuminated Street Name Signs – Town staff are still working with CDOT to get Meadows Pkwy and Hwy 85 a power feed for two of the signs.

2022 illuminated street name signs are currently in the planning phase and are proposed at four locations throughout the Town.

2022 Budget: \$58,000

Targeted Construction Completion: Fall 2022

Engineering Division

2022 Pavement Maintenance Program (PMP)

The 2022 PMP will focus its efforts in the South PMP area with additional work taking place on primary streets (E. Loop Rd, Fifth St, Gilbert St, Mickelson Blvd, and Woodlands Blvd).

Sidewalk, Curb and Gutter

The Sidewalk, Curb and Gutter project was completed in the month of May. Contractor completed all punchlist items. The project came in under contract time and budget.

Concrete Pavement Remove and Replacement Reconstruction

The Concrete Pavement Remove & Replacement Reconstruction Project for Mount Royal Drive/Masters Club & Champions Court began April 25. The contractor completed the install of new storm sewer pipe on Mount Royal to replace existing damaged pipe. The contractor began concrete panel removals in Masters Club and paved bottom mat of Masters Point. The contractor will continue operations on Masters Club. Bottom mat paving of phase 2 of Mount Royal Drive is scheduled for July 30.



Slurry Seal Project

The Asphalt Slurry Seal Project began as scheduled July 5. The contractor completed all preliminary asphalt patching and crack sealing this month. The contractor will continue to work in the South PMP area and on designated primary streets. All planned slurry seal work is expected to be complete by the end of the month.

Asphalt Overlay Project

The Asphalt Overlay Project began construction April 11. The contractor completed asphalt milling and asphalt overlay on Woodlands Blvd and Holmby Court. Concrete and asphalt repair crews moved their operations to Gilbert Street, between South Street and Plum Creek Parkway, as well as East Loop Road from Crystal Valley Parkway and Ditmars Lane Road.



Full Depth Reclamation Project

The Full Depth Reclamation Project concrete repair work started April 11. The contractor completed operations on Gilbert Street between Fifth Street and South Street. All traffic control devices were removed and the street was fully opened to traffic on July 22. The contractor moved operations back into the Baldwin Park to resume bottom mat paving. Reclamation of existing pave-

ment began in the Baldwin Ranch area, Monday, July 25.

2022 Facilities Parking Lot Improvements Program

This year's maintenance program will see needed improvement made to nine (9) parking lots from various Town Departments. These parking lots will see various improvements such as; curb, gutter & sidewalk replacement, asphalt mill and overlay, asphalt patching, slurry seal and seal coat.

Parking lots that are scheduled include the following:

Perry St. Fire Station #151	Meadows Treatment Plant
Police Department	Diamond Ridge Pump Station
Centennial Park (Burgess Pool)	Matney Park
Butterfield Park Parking Lot	Coachline Parking Lot
PCWPF Treatment Plant	

Work is schedule to begin in September 6, and be completed by November 9.

2022 Bridge Maintenance Program

Staff has secured a service agreement with BASIS Partners to provide technical support for the Bridge Maintenance Program. The bridges identified for necessary repairs are the S. Wilcox over E. Plum Creek bridge and the Plum Creek Parkway over UPRR bridge. ABCO was awarded the project. Work is scheduled to begin mid-August. Repairs consist of maintenance to the superstructure, addressing erosion on the support piers and asphalt mill and overlay of the bridge deck.



Development Division

Review and Permitting

Development Review - All 28 reviews were completed. No late reviews this month.

Permitting & Inspection – 18 right-of-way permits were issued.

Transportation Planning & Traffic Engineering Division

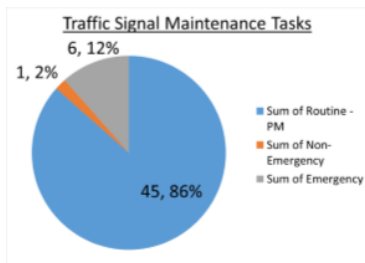
Taxi Voucher Program

For the month of July, the Taxi Voucher Program funded 92 rides; which is a 40% decrease to last year's July total of 153 rides, and a 13% decrease from last month's total rides. Transportation services are provided for Castle Rock citizens who cannot drive, have a disability that prevents them from driving, or do not have access to a vehicle. In July, 18 individuals used the Taxi service. Of those individuals, 71% of the rides were for work, 9% for shopping trips, and 20% for medical appointments. Eighteen rides were provided for people without access to a vehicle, 27 rides to seniors, and 47 rides to disabled riders. The cab was out of service for 5 days in July.

The Castle Rock Senior Center provided a total of 945 rides in July.

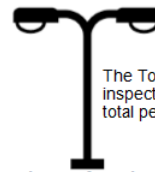
Traffic Engineering and Operations

Traffic Signal Operations and Maintenance



- Most frequently visited signals: Wolfensberger Rd and Prairie Hawk Dr, Meadows Blvd and Future St, N Meadows Dr and Butterfield Crossing, 5th St and Woodlands Blvd, 3rd St and Wilcox St, Front St and Liggett Rd.

Street Light Operations



Street Light Operations

The Town owned and maintained street lights are inspected on a monthly basis with regard to the total percentage that are operational.

Change from last month

(0%)

95%



Beacon



Beacon Operations

The Town owned and operated beacons: school zone flashers, pedestrian rapid flashing, yellow flasher, and stop sign red flasher are inspected on a monthly basis with regard to the total percentage that are operational.

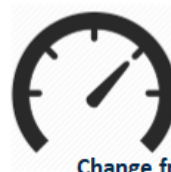
Change from last month

(-1%)

98%



Operations



Travel Time Index (TTI)

Travel time index (TTI) is used to measure the operational condition of primary corridors in Town.

Change from last month

(0%)

1.48



Street Signs and Pavement Marking Maintenance

For the month of July, the crew completed 904 tasks. Of these tasks, 102 of them were sign work activities related to fabrication, install, repairs, replacements, inspections and investigations. We had 208 beacon related tasks, including windshield inspections, and repairs. We did 566 tasks related to marking symbol installs and replacements. Other tasks included 20 small projects, six special events, several liquor license postings, one delineator task, and one traffic count task. Local street crosswalk painting is 35% complete.

Transportation Planning

Castle Rock Downtown Alley Master Plan:

Project close out is wrapping up. The final report has been delivered and reimbursement forms will be sent to CDOT.

Neighborhood Traffic Calming Program (NTCP):

The NTCP exists to verify and address quality of life items associated with vehicular traffic on local neighborhood streets and certain residential collector roadways. No new inquiries were received in August. Speed studies for Jonquil Street and Switch Grass Drive showed the 85th percentile speeds were less than 30 mph and therefore do not qualify for the program. The point of contacts were notified of the results and options to pursue educational campaigns. Town staff will continue to work with the neighborhoods should they pursue other options.

Downtown Castle Rock Grants:

Test results for the new concrete curb extensions in front of the B&B Café and Castle Café were performed. The results of the test confirmed the strength of the concrete meets or exceeds Town standards. The benches and trash cans will be installed once they arrive. The final reimbursement forms will be sent to CDOT in August.

DRCOG Transportation Improvement Program (TIP):

Sub-regional grant applications for Call #2 were reviewed, scored, and ranked by DRCOG and the sub-regional jurisdictions in July. Of the 3 projects submitted by the Town;

- Downtown ADA & Active Transportation project – address non-compliant ADA issues, build new sidewalks, and curb extensions,
- Plum Creek Pkwy & Perry St. Intersection Improvements – project to install a WB right turn lane and a wider multi-use sidepath.
- Industrial Tributary Trail – a new trail in Parks 5-year CIP, from Plum Creek Trail to the MAC, the Town is responsible for the portion from Plum Creek Trail under the BNSF railroad and Prairie Hawk Drive. The Miller's Landing and ACME developments will construct the remainder of the trail.

The Douglas County sub-regional technical working group is recommending that the Industrial Tributary Trail receive roughly \$4.9 million in federal grant funds. Every community in the sub-region is recommended to receive federal funds for one of their projects. These recommendations will be presented to the Douglas County Steering Committee in August.

Fleet Services

Keeping Castle Rock on the Move



As you drive around Castle Rock and see many different departments providing first-class service, you will notice how they rely on their Town-issued vehicles. The Fleet Division takes great pride in knowing that those vehicles are reliable and safe to operate.

Fleet Services Division continues to make sure that Town vehicles and equipment are ready for operation. This includes public safety vehicles like Police & Fire but also other department vehicles that need to be in use to provide great service for our residents.

The Fleet Division kept Castle Rock on the move with a very busy month of July with plenty of preventative maintenance work and preparing new vehicles for service. We completed 130 work orders and processed 151 vehicles for the month. Total output for the month was \$87,018 parts and labor billed out. Technician productivity was also very good for the month of July at 79.8%. And Fleet availability increased to 98.7% which is above our performance measure.

Fleet also completed the up fit of an new Ford Explorer for CRW and completed a special project by installing monitors in the town trolley for use during special events. The Fleet technicians also completed DOT training.



Objective/Benchmark: Complete at least 75% of our work orders within 48-hours of coming to shop.

Outcome: Fleet team completed 88.7% of the work orders within 48-hours of opening repair requests or service requests. This benchmark number shows how quickly vehicles and equipment get serviced and repaired and back on the job. This benchmark number is just under our monthly objective.

Objective/Benchmark: Town vehicles and equipment available for use 95% of time.

Outcome: Town vehicles and equipment were available 98.7% of the time. This high fleet availability rate means that Town vehicles and equipment are ready when they are called upon to perform.

Objective/Benchmark: Technician productivity percentage of

70% (APWA standard)

Outcome: Technician productivity was 79.8%. This productivity number was a very good increase considering the difficulty in getting some parts and some larger jobs that were completed.

Street Operations & Maintenance Division

During the month of July, the Street Operations & Maintenance Division (SO&MD) performed work in the following maintenance operations:

- *Asphalt patching & Pothole repair
- *Equipment Maintenance
- *Street Sweeping
- *Special operations
- *Shoulder Maintenance/Mowing

Asphalt Patching and Pothole Repair

In the month of July, the Streets Division crews focused on road-way repair. Asphalt patching and pothole repairs on both concrete roads as well as asphalt roads were completed in numerous areas of Town. In total the crew dedicated 541 hours, 18.28 tons of hot mix asphalt, 4,800 lbs. of cold mix asphalt, and 1,200 lbs of concrete mix to execute these repairs.

Street Sweeping

The crews also continued their efforts to keep downtown roadways clean and neat during the a.m. sweeping operation. This operation takes place during the warmer months and serves to keep the heart of Castle Rock a clean, vibrant, and inviting place to be. The crews also participated in the Cattle Drive event and parade, working to clean up after the stars of the show. The crews spent a total of 120 hours, removing 49 cubic yards of material.

Shoulder and Gravel Road Maintenance

The Streets Operators spent 35.5 hours maintaining the road shoulders in the Town as well as touch ups on the gravel roads. These operations include trash removal, deceased animal removal, and smoothing out the gravel roads and road shoulders.

Equipment Maintenance

The Streets Division relies heavily on equipment to ensure the ability to maintain the Town roadways. This equipment in turn requires maintenance as well. The crews spent 76 hours on numerous pieces of equipment to keep the machines running and the crew's capability to effectively maintain infrastructure at a high level.

Special Operations

The Streets Division has a number of special operations that are currently underway, these include the construction of a new snow storage facility. When the snowfall downtown reaches the

point where melting will not remove it quickly enough the Division will remove the snow from Downtown. The new facility is designed to facilitate this removal and provide a place for it to be taken and melt away. The crew is also currently engaged in ensuring adequate supplies for snow and ice operations. Plow bits, road salt, sweeper brooms, and other materials that will be required.

Looking Ahead

In August, the Streets crew will continue to prepare the new snow storage facility, stockpile the salt deliveries that are incoming, as well as look to finalize snow season preparations. The crews will also be continuing with road pavement maintenance such as patching and pothole repair, street sweeping, and road shoulder maintenance.