



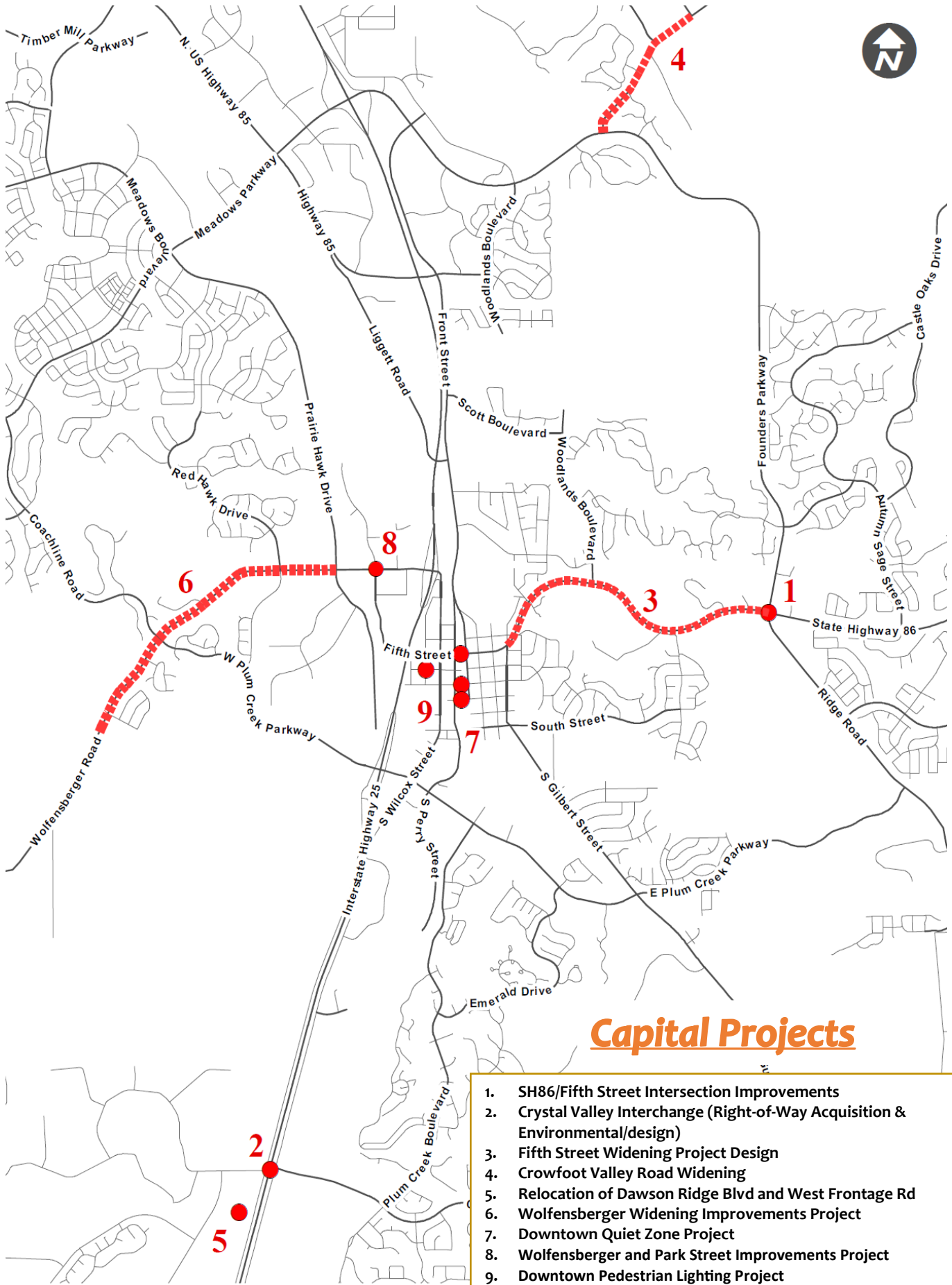
# Monthly Report

October 2024

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.





## **Capital Projects**

1. SH86/Fifth Street Intersection Improvements
2. Crystal Valley Interchange (Right-of-Way Acquisition & Environmental/design)
3. Fifth Street Widening Project Design
4. Crowfoot Valley Road Widening
5. Relocation of Dawson Ridge Blvd and West Frontage Rd
6. Wolfensberger Widening Improvements Project
7. Downtown Quiet Zone Project
8. Wolfensberger and Park Street Improvements Project
9. Downtown Pedestrian Lighting Project

1. **Founders Parkway (SH86)/Fifth Street Intersection “Four Corners” Improvements** – This project will enhance one of the primary intersections in Town. Founders Parkway, SH-86, Ridge Road and Fifth Street intersect at the project location. Each leg of the intersection is classified as a major arterial facility and the intersection is currently operating above its capacity. The improvements this project will implement 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: Construction**

- Bottom and intermediate mats have been placed on all pavement sections
- Curb and gutter work is wrapping up along with median cover installation
- Top mat paving is dependent on weather window of 50 degrees and rising
- Final fence, railing, seeding and straw blankets are being installed

**Budget:** \$12,400,000 total funding

**Targeted Construction Completion:** Winter 2024

2. **Crystal Valley Interchange – Construction Activities** – The purpose of this project is to build an interchange with I-25 in the southern end of Town which will reduce congestion at the Plum Creek interchange, on S. Wilcox and the E. Frontage Rd., and improve access to the highway for Crystal Valley Ranch, Montaine, and the future Dawson Trails developments.

**Phase: Construction—Package 1**

- Roundabout and new portions of the East Frontage Road are now open and active
- Street lighting is being installed along the newly constructed areas
- Final grading and erosion control measures are being placed on all stormwater facilities
- Work will continue on landscaping, median cover and small miscellaneous items when weather windows allow

**Budget:** \$17,196,090.70

**Phase: Construction—Package 2**

- Embankment on westside has commenced along with the excavation of the southwest pond which will generate 80,000 cubic yards of embankment for the west side approach
- Caisson drilling continues in I-25 on pier 4
- The columns have been poured on pier 2 and pier 3 with the pier cap formed and ready to pour on pier 2
- Pile driving has started on abutment 5 on the eastside

of the project and will continue through November

- Girders started being cast in Thornton last month and will continue through the next few months

**Budget:** \$78,400,000 total Construction funding

**Targeted Construction Completion:** Summer 2027

3. **Fifth Street Widening—Pre-construction** – 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 fully built-out transportation network from South Gilbert Street to Ridge Road in two separate construction phases. The improvements include:

- Widen to 4-lanes from Woodlands Boulevard to Ridge Road
- Add on-street bike lanes between Gilbert Street and Ridge Road
- Add sidewalks from Sixth Street to Ridge Road
- Roundabout and signal light construction at Woodlands Boulevard and Valley Drive respectively.

**Phase: Design & ROW**

- Completed and submitted phase 1 construction documents (90% level)
- Negotiations with a number of property owners continue for purchase of properties
- Closed on three property acquisitions
- Two offers made for property acquisition adjacent to Town right-of-way
- Continue utility coordination for relocations

**Budget:** \$3,200,000 total funding

**Design Completion:** Late 2024

**Right-of-way acquisition:** Late 2024

**\*Targeted Construction Completion:** Phase 1: Late 2025, Phase 2: Late 2029

4. **Crowfoot Valley Road Widening** – This project involves the widening of Crowfoot Valley Road from the intersection of Knobcone Drive to the Town boundary. The objective of this project is to reduce congestion due to current and forecasted traffic volumes, as well as safety improvements for both vehicles and pedestrians alike. The project will include:

- Roadway widening to four through lanes
- Right and left turn auxiliary lanes where warranted
- Signal at Sapphire Pointe intersection
- Complete sidewalks throughout the project corridor

**Phase: Design & ROW**

- Began appraisal research for property acquisitions
- Utility relocation agreements prepared and executed
- Utility relocation designs completed and accepted
- Completed and submitted final (100%) construction documents

**Budget:** \$810,000 total funding

**ROW Acquisition:** Early 2025

**Design Completion:** 2024

**\*Targeted Construction Completion:** Late 2025

**5. Relocation of Dawson Ridge Blvd and West Frontage Rd –**

The purpose of this project is to relocate the I-25 West Frontage Road 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: Construction** – The following is a summary of the activities performed this month:

- Contractor continues mass grading for the roadway
- Construction of storm pipe and storm ponds continues
- County began construction on their portion of Dawson Trails
- Reviewing change order for concrete box culverts

**Budget:** \$11,555,000 total funding

**Targeted Construction Completion:** Summer of 2025

**6. 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 fully built out transportation network from the western Town limits to Prairie Hawk Drive.

- Widening roadway to a full 4-lane arterial section between Prairie Hawk Drive and Coachline/Plum Creek Pkwy. 2-lane arterial from Coachline/Plum Creek Pkwy to Town limits.
- Addition of sidewalk along both sides of Wolfensberger
- Roundabout construction at Red Hawk/Auburn and Wolfensberger Intersection
- Removal of existing traffic signal
- Stormwater drainage improvements
- Implementation of on street bike lanes West/East bound

**Phase: Planning/Design**

- Right of way acquisition will continue throughout 2024
- Design start up has been pushed to 2029
- Legal is drafting offer letters

**Budget:** \$2,500,000 total funding

**Design Completion:** TBD

**Right of Way Acquisition:** 2024

**\*Targeted Construction Completion:** TBD

**7. Downtown Quiet Zone Project -** This project will 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, i.e., 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: Implementation** - The following is a summary of activities performed this month:

- Quiet Zone is in effect as of September 18
- Documented and reported instances of train horns with Federal Railroad Administration (FRA) for investigation

**Budget:** \$1,800,000 total funding

**Targeted Construction Completion:** Complete

**Targeted Implementation:** Complete

**8. Wolfensberger and Park Street 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 and Park Street have been identified to increase intersection operations and provide better pedestrian access to the Downtown area.

- Substantial completion issued 10/21/2024
- Construction completion will be issued after punch list items are addressed.

**Budget:** \$937,000

**9. Downtown Pedestrian Lighting Project –** This is a project to install pedestrian lights to improve public safety, visibility, mobility, and access to destinations Downtown by installing new pedestrian light fixtures to increase lighting levels.

- Town staff are reviewing contractor material submittals for the project, including pre-cast footings. Due to the construction moratorium in the downtown area November 23<sup>rd</sup> through January 1<sup>st</sup>, and the delivery of light poles after January 1<sup>st</sup>, Notice to Proceed (NTP) to Morton Electric will occur in early January.

**Budget:** \$600,000

**Construction Completion:** Spring 2025

**\*These schedules are subject to change based on adjusted revenue forecasts and results of bids received.**

**Traffic Signal System Upgrades –** This is a multi-year project which is on-going as funds are available. The project has included proven technology advances at signalized intersections for safety and efficient daily operations.

- Staff is a part of the CDOT managed, adaptive signal system project that has implemented adaptive signal timing on Founders Parkway, and Meadows Parkway, and Factory Shops Boulevard. Eight abutting Town signals are included in the system. Before and after comparison of travel time and number of vehicle stops in operations will be made.
- The Town and CDOT finalized the IGA for the Town to receive connected vehicle hardware and technical sup-

port services. This is a two-year project that will now be initiated.

**Budget:** \$868,700

**Targeted Construction Completion:** April 2026

**2024 Safety Project** – This project includes concrete safety devices in conjunction with the Pavement Maintenance Program, installation of pedestrian crossing beacons (RRFBs) at six locations, Intelligent Transportation System (ITS) on Meadows Blvd to warn drivers of signal changes and queue awareness, and intersection and corridor safety improvements.

- All RRFB equipment has been installed and this project task is complete.
- Town contractor Adiona Transportation Systems is working on the installation of underground wiring and sign posts for construction of an advanced signal beacon on Meadows Blvd at Limelight. All work requiring traffic control is being completed while the Regent traffic signal closure is in place.

**Budget:** \$410,000

**Targeted Construction Completion:** End of 2024

**Illuminated Street Name Signs** – All the previously ordered illuminated street name signs (ISNS) and hardware have been received by the Town; staff is coordinating installation. Sign locations include: Founders Pkwy and Rising Sun, Founders Pkwy and Ridge Road (Four Corners), Wolfensberger and Park St, and Wolfensberger and Caprice.

- Staff is working with signal contractor to schedule the remaining installs.

**Budget:** \$73,582

**Targeted Construction Completion:** End of 2024

**Safe Streets for All (SS4A) Safety Action Plan** – The Town was awarded a SS4A grant to create a Comprehensive Safety Action Plan (CSAP). The plan aims to expand on the biennial Crash Facts Report to identify a High Injury Network (HIN) and High Risk Network (HRN) and focus on making improvements in areas with a high potential for crash reduction.

- Staff have provided comments on the initial draft of the action plan. This will be distributed more broadly for Town feedback in November.
- Fehr & Peers (F&P) created an interactive dashboard of crash history, which is being transferred to a Town server for on-going support and hosting by the Town.
- The project schedule is to distribute the Action Plan to public audiences in December and present to Town Council for adoption in January.

**Budget:** \$300,000

**Targeted Plan Completion:** February 2025

# Engineering Division

## 2024 PMP

The PMP continues its efforts in the West PMP area.

## Sidewalk, Curb and Gutter Improvements

The additional work added to the project has been completed.

## Asphalt Overlay Project

The additional work that was added has been completed.

## Slurry Seal Project

The additional work added to the project has been completed.

## Full Depth Reclamation Project

This project has been completed.

## 2024 Facilities Parking Lot Improvements Program

Work continued at Castle Rock Water's yard, all work is scheduled to be completed by mid-November.



## 2024 Miscellaneous Concrete Project

The contractor started work in October and has completed 80% of the project. They are scheduled to be done with all work by the end of November.

# Transportation Planning & Traffic Engineering Division

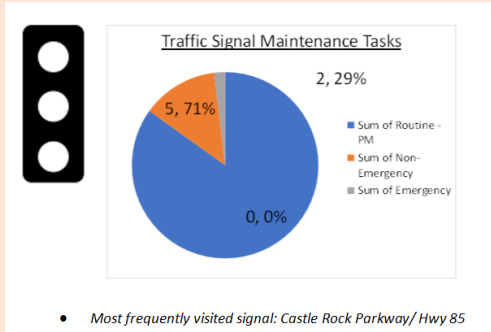
## Taxi Voucher Program

For the month of October, the Taxi Voucher Program funded 122 rides; which is a 5% increase from last month's total rides (116). 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 October, 19 individuals used the Taxi service. Of those individuals, 87% of the

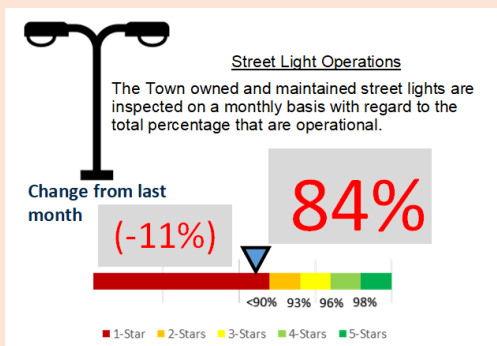
rides were for work, 10% for shopping trips, and 3% for medical appointments. Forty-seven rides were provided for people without access to a vehicle, 32 rides to seniors, and 43 rides to disabled riders.

## Traffic Engineering and Operations

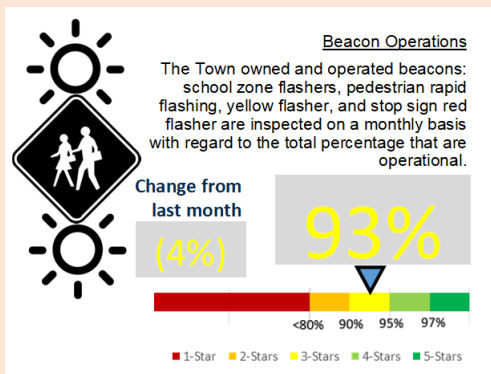
### Traffic Signal Operations and Maintenance



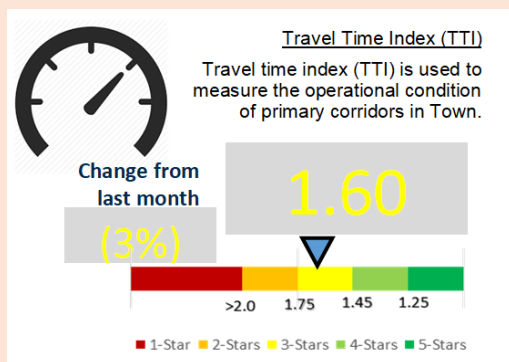
### Street Light Operations



### Beacon



### Operations



## Street Signs, Beacons and Pavement Marking Maintenance

For the month of October, the team completed 860 tasks. Of these tasks, 148 of them were sign work activities related to fabrication, install, repairs, replacements, inspections and investigations. Six hundred fifty tasks were marking work activities related to fabrication, install, repairs, replacements, inspections and investigations. We had 44 beacon related tasks, including windshield inspections of 382 beacon assets. Other tasks included sixteen small projects, and two tasks related to street light fixtures.

Colorado Barricade, the Town's marking contractor is complete with their 2024 marking maintenance tasks.

## Transportation Planning

### 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. There was one new inquiry received in October, for Crimson Sky Drive. Town staff sent out the initial support petition to the point of contact (POC). Staff heard back from the POC on Rising Moon Way, and a neighborhood meeting to discuss the next steps has been scheduled. Plum Creek Boulevard POC was notified of an incomplete petition. A successful petition was returned for Canyon Drive and a speed study was ordered.

### Transportation Master Plan (TMP) Traffic Projection Update:

Town staff has provided all comments to the consultant to update the report. It is expected to be completed by the close of 2024.

### Douglas County Transit and Multimodal Study:

Town of Castle Rock is a stakeholder for this County wide study. The outcome will complement the Town's Transit Feasibility Study. The current conditions section of the County report has been completed. This includes recognizing land uses, demographic data, travel patterns, and identifying initial opportunities. A fact sheet has been completed and placed on the project web page (<https://www.douglas.co.us/public-works/integrated-transit-and-multimodal-study/>). Different transit types are also being evaluated for their feasibility. Types being evaluated include regional fixed route shuttle service within the study area, local circulators, and micro-transit (a type of on-demand service). Public outreach is set to continue into November.

### Transit Projects:

#### Federal Transit Administration (FTA) – Castle Rock Small Urbanized Area (UZA) Designation:

The Town is circulating a task order to contract with Benesch to complete this study. The study partners, include Castle Pines,

Douglas County, and the Town. It is expected to take between 8-10 months to complete. A number of issues will be explored, including impacts of being designated a direct recipient, governance structure, funding, and conceptual services.

### **CDOT's Castle Rock Mobility Hub:**

CDOT and their consultant RS&H met with Town staff to discuss the new mobility hub study for the potential Bustang stop. Another staff follow up meeting will be held in early December and CDOT has been asked to discuss the mobility hub at the January 7<sup>th</sup> Town Council meeting.

### **Front Range Passenger Rail (FRPR):**

Staff and Town management have met with the FRPR staff to discuss the potential Castle Rock train station. The FRPR District is planning to place a tax measure on the November 2026 ballot to help fund the train service.

## **Fleet Services**

As you drive around Castle Rock and see the different departments providing first-class service throughout the community, you will notice how they rely on their Town vehicles. The Fleet Division takes pride in knowing that those vehicles are reliable and safe to operate and that they are providing a service for our community and our residents. Our services support the Police and Fire Departments, Public Works, Parks and Recreation and Castle Rock Water. We also support the important functions of Development Services, Engineering, Traffic, Signs and Markings, the Recreation and Activity Center and Town Hall.

The Fleet Services Division continues to provide a high level of service to the various Town departments. The Fleet Division completed 135 work orders ranging from capitalization, general repairs, preventative, road calls, vendor repairs and warranties. Our staff continues to produce at a high level and completed most of the repairs within 24 hours. The overall fleet availability was 99% during the month. The Fleet utilized more than 13,000 gallons of fuel in October with fuel prices slightly higher than previous months. Our staff worked during the month to prepare snow plow equipment for winter use. As usual most repairs were related to rust and wiring issues. The Streets Division had a transfer case failure on one of their 5-ton plow trucks. Thanks to the Parts staff and Technicians, efforts to locate and coordinate repair of this asset occurred just in time for the pending storm. The new vehicle and replacement program is very close to receiving all vehicles for 2024. We are on track to receive all new vehicle orders this year. This will be the first time in recent years that all orders were received in the same year. The asphalt patch truck that has been ordered for several years is complete and going through quality control inspections at the vendor. It should ship to Colorado by mid month. Two plow trucks are currently being built at our local vendor. These should ship to us

sometime in December or January. The last two trucks for the Police Department are currently in production at Ford. These will ship to Colorado in late November. The Recreation Center received their new all wheel drive van in October.

The Fleet Services Manager is preparing to auction some of our surplus vehicles. Assets no longer needed for service will be advertised on a public auction site. We are hoping to get a significant amount of revenue from the auction. October was busy with new vehicle quotes and design specifications for new vehicles in 2025. Work will continue to finalize the vehicles selections and seek approvals.

## **Street Operations & Maintenance Division**

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

- \*Asphalt Maintenance
- \*Crack Seal & Mastic Operations
- \*Equipment Maintenance
- \*Road Verge Maintenance
- \*Street Sweeping
- \*Snow plow Training

### **Asphalt Maintenance**

Last minute asphalt repairs were carried out in anticipation of wintertime plant closures by the asphalt companies. Crews dedicated 536 hours to these repairs, utilizing 58 tons of hot mix asphalt, and 1000 pounds of cold mix asphalt.

### **Crack Seal and Mastic Operations**

The team completed work on mastic repairs in the Knobcone area, completing a total of 60 transverse cracks in the neighborhood. The team worked 309 hours on this operation during October and used 1500 pounds of mastic material.

In conjunction with the mastic operation, the team also continued work on the Pre PMP portion of the crack seal operation. The team dedicated 860 hours applying 21,700 pounds of crack seal material on the roadways not planned for larger scale repairs.

### **Equipment Maintenance**

The crews worked 405 hours on preparing equipment for the upcoming winter season. Primary focus was ensuring the plows and snow removal equipment are ready and needed repairs are made in time.

### **Road Verge Maintenance**

The Streets Division crews worked 293 hours on mowing, trimming, and trash pick up, as well as graffiti removal along 129.86 edge line miles of Town roadways. This effort will assist drivers to identify safe areas to exit the roadway as well as enhance Town aesthetics.

### **Street Sweeping**

The last of the AM sweeping operations were undertaken and the Town-wide Fall Sweep was begun. The crews worked 335 hours to cover 249.7 lane miles of Town. In all, they removed 202.5 cubic yards of material from the roadways and hauled a total of 113 tons of sweepings to the landfill.

### **Snow Plow Training**

The Streets Division completed the annual snow plow training during the month. This course attempts to provide the Town's plow drivers with the basic skills needed and an understanding of the level of service required to successfully undertake plow operations for the upcoming season.

### **Looking ahead**

For November, the Streets Division plans to prioritize Snow and Ice control operations, continue the Town wide Fall sweeping program, and weather permitting, conclude crack seal operations.