

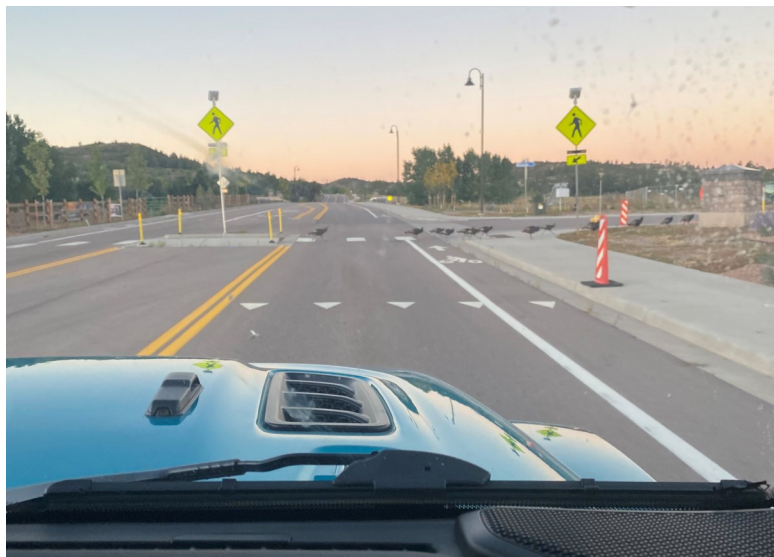


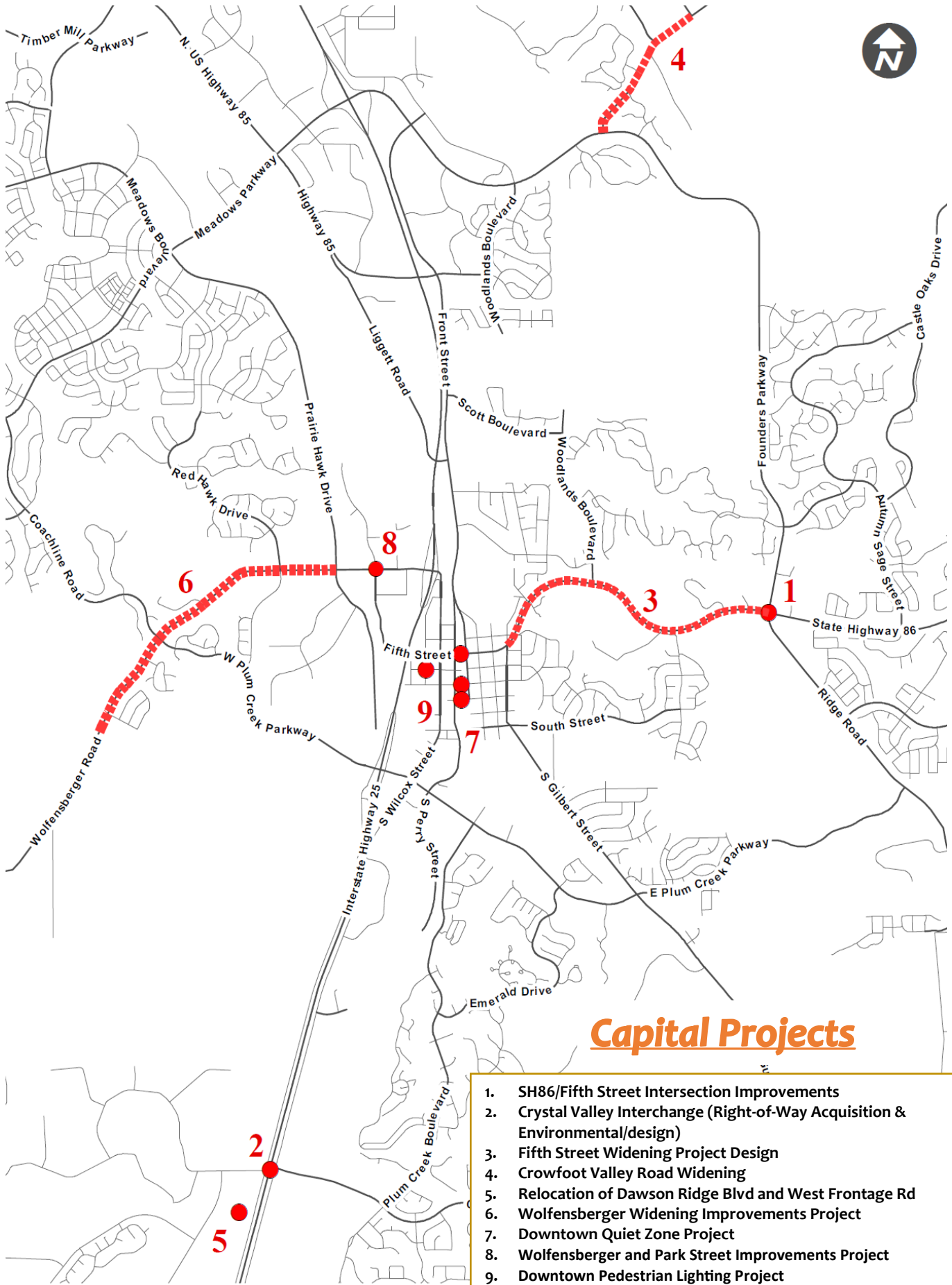
Monthly Report

September 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

- Construction continues on all four phases
- Paving operations continue on Ridge Road
- Initial paving on CO 86 has been completed
- Median work on Fifth Street continues
- Temporary traffic control roundabout configuration for intersection removal work was set up and in place on October 1.
- Permanent seeding and stabilization are being installed on all permanent slopes

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

- Concrete pavement is being placed on northside of roundabout at Crystal Valley Parkway and the E. Frontage Road
- Electric conduit installation is complete in preparation of street lighting
- Grading of stormwater ponds continue and the installation of the pond attributes (trickle channels and outlet structures)

Budget: \$17,196,090.70

Phase: Design/Construction—Package 2

- Embankment continues on eastside bridge abutment and approach
- Caisson drilling for the westside abutment
- Traffic shift on SB I-25 is complete and barrier will be completed week of 9/23
- Toll lane on I-25 was adjusted per CDOT direction and is back in service
- Groundbreaking was held on Thursday, September 26.

Budget: \$7,580,000 total Design funding

\$78,400,000 total Construction funding

Design Completion: Spring of 2024

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

- Design consultant began work to break project into phases
- Negotiations with a number of property owners continue for purchase of properties
- Closed on two property acquisitions
- Seven offers made for property acquisition adjacent to Town right-of-way
- Continue Verizon communications line relocation

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 property acquisition processes for project needs
- Finalized CORE electric relocation designs.
- Continued to progress design toward 100% (construction ready) level

Budget: \$810,000 total funding

ROW Acquisition: 2024

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

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

- Land appraisal reports have been completed for three parcels. Remaining reports will be completed in the next few weeks
- Land acquisition consultant and Town staff working on offers for two parcels
- Right of way acquisition will continue throughout 2024
- Design start up has been pushed to 2029

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

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.

The Wolfensberger and Park Street Improvements Project will complete all design elements for the implementation of pedestrian and transportation improvements.

- Relocate traffic signal pole
- Increase sidewalk width
- Replace existing ADA ramps
- Construct additional turn lane on Park Street

Phase– Construction

- Improvements on the east side of Park Street have been completed
- Structural engineer completed redesign and realignment of the retaining wall
- Retaining wall poured per new design
- Caisson for signal pole relocation to be drilled week of October 1
- Unforeseen utility relocation, retaining wall redesign and a slight change in design grades have pushed the project completion date to late October
- Outreach for project is being communicated through Community Relations

Budget: \$937,000

Targeted Construction Completion: September 2024

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.

- Staff received concurrence to award from CDOT and Town Council approved the construction contract. Next step is issuing Notice to Proceed (NTP) to Morton Electric and holding pre-con meeting. Pre-pre meeting was held with CDOT staff in September.

Budget: \$600,000

Construction Completion: End of year 2024

**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.
- Phase II of the Town's ATSPM project includes software development and signal timing. Project acceptance testing is scheduled and project closeout and final invoicing is anticipated by Fall 2024.
- The Town returned comments for a draft IGA to CDOT for Connected Vehicle hardware in order to begin the project. Once executed this two-year project will kick off in earnest.

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.

- Pre-con meeting held with Adiona Transportation Systems for construction of ITS project on Meadows Blvd – Adiona procuring equipment for project.
- RRFB equipment is being assembled and installed.
- Safety improvements along Plum Creek Pkwy is on hold until other construction projects impacting traffic flow are complete.

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.

- CIP project at Wolfensberger and Park St will install ISNS and necessary electrical components.
- The Four Corners project has installed ISNS at this intersection.
- Town staff held pre-con with CDOT staff for installations at CDOT intersections. Founders/Rising Sun is complete and Founders/Front is in progress.

Budget: \$73,582

Targeted Construction Completion: Fall 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 Net-

work (HRN) and focus on making improvements in areas with a high potential for crash reduction.

- Fehr & Peers (F&P) created an interactive dashboard of crash history, and a presentation slide deck explaining the crash history and systemic analysis findings. [Project Website](#)
- Multiple follow up stakeholder meetings held in September and scheduled in October to discuss specific countermeasures and intersections analyzed by project; these stakeholders included Douglas County School District, CDOT, Police Department, Fire Department, and Development Services.

Budget: \$300,000

Targeted Plan Completion: Fall 2024

Engineering Division

2024 PMP

The PMP continues its efforts in the West PMP area.

Sidewalk, Curb and Gutter Improvements

Additional curb and gutter repairs were approved along Plum Creek Blvd. The contractor started these repairs on September 30 and is scheduled to be complete by mid-October.

Asphalt Overlay Project

The contractor continues curb, gutter and sidewalk repairs, and is scheduled to start milling and paving operations the week of October 14-18.

Slurry Seal Project

The contractor is scheduled to remobilize for the remaining slurry seal on Ireland Moss St. and Morningview Dr. in early October.

Full Depth Reclamation Project

The contractor has completed all planned work within contract time and under budget.

The contractor is scheduled to complete all punchlist items and demobilize by mid-October.



2024 Facilities Parking Lot Improvements Program

The contractor completed scheduled work at Bison Park, Wrangler Park, E. Plum Creek Trail and 4th & Perry St. parking lots.



Work continues at Castle Rock Water's yard and front parking lots. The scope of work at the 7th Street Parking Lot was increased to construct five (5) new parking spaces in coordination with the DDA. All work is scheduled to be completed by mid-October.

2024 Bridge Maintenance Program

The contractor, Critical Pipeline Repair completed the lining of two (2) 90" corrugated metal pipe at the Plum Creek Parkway over Sellar's Gulch bridge. Project began on September 16 and was completed on September 26. Project was completed within contract time and budget.



Transportation Planning & Traffic Engineering Division

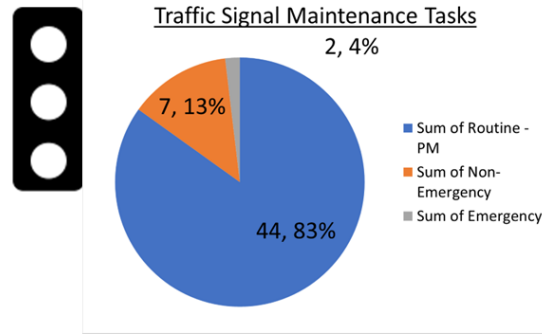
Taxi Voucher Program

For the month of September, the Taxi Voucher Program funded 122 rides; which is a 5% increase from last year's September total of 116, and a 16% increase from last month's total rides (105). 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 September, 19 individuals used the Taxi service. Of those individuals, 79% of the rides were for work, 11% for shopping trips, and 10% for medical appointments. Thirty-eight rides were provided for people without access to a vehicle, 38 rides to seniors, and 46 rides to disabled riders.

The Castle Rock Senior Center provided a total of 1,141 rides in September.

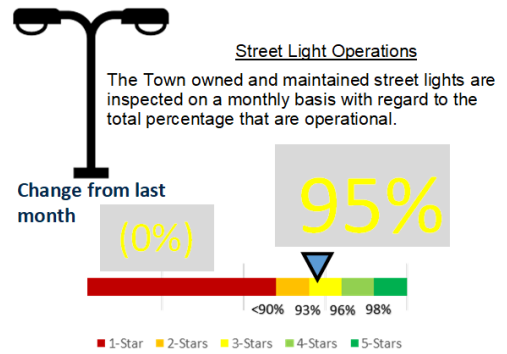
Traffic Engineering and Operations

Traffic Signal Operations and Maintenance

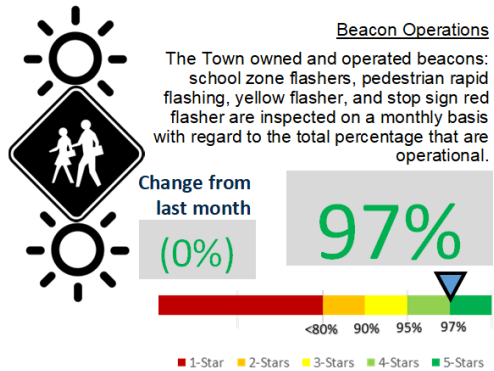


• Most frequently visited signal: Meadows Blvd & Coachline Rd

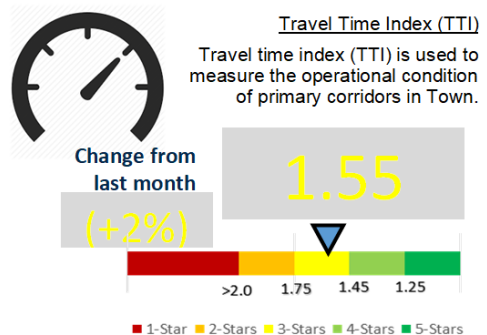
Street Light Operations



Beacon



Operations



Street Signs, Beacons and Pavement Marking Maintenance

For the month of September, the team completed 3,157 tasks. Of these tasks, 51 of them were sign work activities related to fabrication, installation, repair, replacement, inspection and investigation. 3,091 tasks were marking work activities related to fabrication, installation, repair, replacement, inspection and investigation. We had seven beacon related tasks, including windshield inspections of 353 beacon assets. Other tasks included six small projects, one special event, and one work zone setup. The team also provided traffic control setup and take down for the Tri the Rock event and has provided support to capital projects such as Four Corners Intersection, Quiet Zone and Fire Department's safety plaques.

Colorado Barricade, the Town's long line marking contractor is 96% complete with white and 98% complete with yellow long lines. They are 100% complete with signalized intersection markings and 78% complete with durable markings assigned to them.

Colorado Barricade, the Town's long line marking contractor is 79% complete with white and 80% complete with yellow long lines. They are 30% complete with signalized intersection markings and 56% complete with durable markings assigned to them.

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 were two new inquiries received in September. The streets are Third Street and Candleglow Street. Town staff has sent out the initial support petitions to the point of contacts. Staff is still waiting for the residents to return the petitions before speed studies can be ordered. Staff has also received four petitions from previous inquiries and are in the process of verifying the signatures.

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 this fall.

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 microtransit, which is an on-demand ser-

vice. Public outreach is scheduled to begin in October or November.

Transit Projects:

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

The Town received two proposals for the study: Felsburg, Holt, and Ullevig, and Benesch. The study partners, Castle Pines, Douglas County, and the Town have agreed to award the contract to Benesch. At present, the contract and scope of work are being finalized. It is expected to begin this fall and 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 are looking at scheduling a meeting with Town staff in early October to begin discussions on the new mobility hub study for the potential Bustang stop. Following the October staff meeting, CDOT has been asked to discuss the mobility hub at a November Town Council meeting.

Front Range Passenger Rail (FRPR):

Public Works and Development Services staff met with the FRPR staff to discuss the potential train station in the Town and where it should be located. Town management also met with the FRPR staff in early October 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 Town departments. The Fleet Division completed 123 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 97% during the month. The fleet utilized 14,677 gallon of fuel in September with fuel prices slightly higher than previous months.

The new vehicle and replacement program is very close to receiving all vehicles for 2024. There are eight (8) purchase orders that have vehicles shipped or in production. It is projected that 2 to 3 of these will carry forward into 2025 due to scheduling backlog at the heavy truck upfitters. Our upfitting activities continues to put new assets in service. The staff have put two new Facilities trucks in service and several Police vehicles, including

the first Chevrolet Tahoe for the Police Department. We have 27 active work orders going into October that include 11 waiting for delivery of Police equipment.

We put six new vehicles in service for the Streets Division. These new vehicles include a new motor grader, two street sweepers and three work trucks.

The Fleet Services Manager is preparing to auction some of our used/replaced assets sometime in October or November. 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. New vehicle bids and solicitation has begun for the 2025 budget.



Preventative Maintenance on Unit 181 VacCon Sewer truck. Our column lifts have no problem lifting the 38,580 pounds

Street Operations & Maintenance Division

During the month of August, the Street Operations & Maintenance Division (SO&MD) performed work in the following areas:

- *Asphalt Maintenance
- *Crack Seal & Mastic Operations
- *Road Shoulder Maintenance
- *Road Verge Maintenance
- *Bridge Painting
- *Street Sweeping

Asphalt Maintenance

Asphalt repair continues to be a primary focus for the Division. The crews dedicated 711 hours to numerous repair efforts all over Town. Many were large, full depth patches from damage or utility cuts some and a few were smaller mill and fill or pothole repairs. Over the month, 89 tons of hot mix asphalt were used during these repairs.

Crack Seal and Mastic Operations

The team also worked to address a significant number of transverse cracks that had developed in the Knobcone area. The team

worked to get this addressed by utilizing a mastic repair over the course of two weeks. Mastic is a hot sealant material strengthened with fibers and aggregate to create an effective structural repair. Presently, 5,285 pounds of mastic has been used to repair more than 40 of the 61 identified cracks. This operation will be finalized in the first week of October.

Pre PMP Crack Seal operations were also undertaken on roadways in next year's PMP area that are not scheduled for more significant repair such as slurry seal, mill and overlay, or full depth reconstruction.

Road Shoulder Maintenance

The team continued to maintain the road shoulder areas in Town by repairing washouts and re-establishing proper drainage where needed. Recycled asphalt millings, road base, and native soil is used as appropriate to carry out the needed repair. The team dedicated 267 hours to reshaping 1.65 edge line miles of roadway shoulders.

Road Verge Maintenance

The Division dedicated 349 hours to mowing, trimming, and trash pick up along 174.76 edge line miles of Town maintained verge. The most visible impact of this operation is to the aesthetics of the roadway, and it also serves a vital safety function by allowing a driver the ability to find a safe place to exit the roadway should the need arise.

Street Sweeping

The AM downtown and business area sweep operation continued through the month as the team worked overnight to sweep these areas when the traffic is the lightest. This allows the downtown and business areas to be kept clean and inviting. The operation resulted in the removal of 24 cubic yards of material from 64.7 lane miles of Town.

Bridge Maintenance

The Streets Division completed the painting of the four bridges downtown. During the month, the team utilized 340 hours to clean and paint the bridges to maintain the aesthetic appeal, but most importantly to protect the bridges from the salt used during the snow and ice control operations.

Looking ahead

For October, Streets Division anticipates the completion of the mastic operation in Knobcone, the planning of the Fall sweep operation, and snow plow training for all plow drivers in Town. Additionally, the Division will continue both crack seal and asphalt repair operations.