



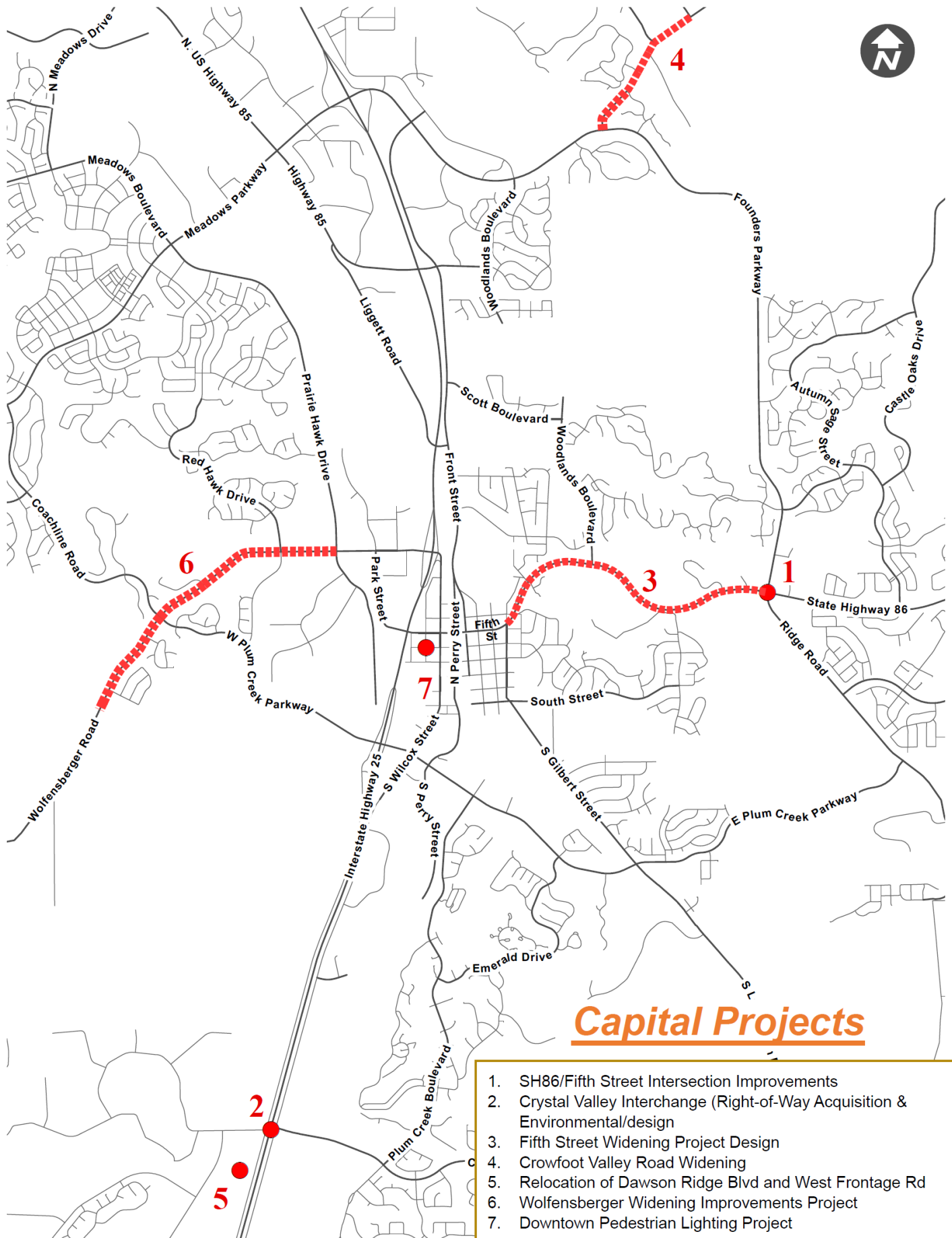
Monthly Report

November 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.





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

- Top mat is nearing completion. All top mat on project will be placed by December 6th
- Contract time runs out on December 13th, contractor is working to have all items completed for substantial completion by that date
- Punchlist has been developed for remaining items and contractor is working on corrections. Remaining punchlist items that require warmer temperatures will remain until spring time but do not affect the operation of the intersection or performance of the improvements
- Project will finish within budget

Budget: \$12,400,000

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

- Package 1 is nearing completion
- Remaining items include sign installation, regional trail connection, fencing and top mat on northern portion of the East Frontage Road
- Top mat for the East Frontage Road is scheduled for Friday December 6th and Saturday December 7th
- Package 1 looks to be completed within budget

Budget: \$17,196,090.70

Phase: Construction—Package 2

- Embankment continues on abutment 1 on the west side of I-25
- Caisson drilling for the East/West bridge is complete
- Pier caps are being formed and poured on all caissons
- Pile driving continues on abutment 5 on the east side of I-25 and should be completed by end of December
- Pipe installation on west side continues with storm sew-

er and steel casing for future water line for Westside development

- Project is currently on schedule for original completion date

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

- Obtained design review comments from stakeholders including Town and CDOT and began to address
- Negotiations with a number of property owners continue for purchase of properties
- Closed on seven property acquisitions
- Three offers made for property acquisition adjacent to Town right-of-way
- Continue utility coordination for relocations

Budget: \$3,200,000

Design Completion: Late 2024

Right-of-way acquisition: Early 2025

***Targeted Construction Completion:** Phase 1: Late 2026, 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

- Completed appraisal research for property acquisitions
- Began generating offer documents for four property owners
- Began CORE electric relocations on-site

- Review of final 100% design and construction documents ongoing

Budget: \$810,000

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
- Excavation for the southern box culvert complete, crews placing stabilization rock and class 1 structural fill
- Construction of southern box culvert to begin week of 12/9

Budget: \$11,555,000

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 through-1st quarter 2025
- Design start up has been pushed to 2029
- Legal has drafted offer letters which will be send out upon Jacobs Engineering completion of Legal Descriptions

Budget: \$2,500,000

Design Completion: TBD

Right of Way Acquisition: 2024

***Targeted Construction Completion:** TBD

7. 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 have approved several contractor submittals for the project, including pre-cast footings. Due to the construction moratorium in the downtown area November 23rd through January 1st, and the delivery of light poles after January 1st, 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 support services. This is a two-year project that will now be initiated.
- The Town received ADA accessible pedestrian push button equipment and will be installing the system at 3rd and Wilcox Street after the new year

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.

- Town contractor Adiona Transportation Systems is ready to install the sign posts and beacons and is awaiting the go ahead from Staff. Consideration for traffic control and lane closure impacts near Meadows and Limelight is being reviewed.

Budget: \$410,000

Targeted Construction Completion: End of 2024

Illuminated Street Name Signs – Staff have begun the installation process with Lighthouse, the signal contractor for the Wolf-

ensberger and Park, and Four Corners projects. Coordination and schedule for install is set for December.

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.

- Fehr & Peers (F&P) has provided a revised draft and comment response. PW Staff and consultant plan to meet with Town Manager Office, Fire Chief, Police Chief, and Communications to obtain their endorsement of the community plan.
- Fehr & Peers (F&P) created an interactive dashboard of crash history, which is in the process of being transferred to a Town server for on-going support and hosting by the Town.
- The project schedule is to complete the plan in December and present to Town Council for adoption in January.

Budget: \$300,000

Targeted Plan Completion: February 2025

Engineering Division

2024 PMP

Miscellaneous Concrete Project

The contractor has completed 90% of this project. Waiting on a CDOT permit to finish work on Meadows Parkway

2024 Facilities Parking Lot Improvements Program

All work has been completed

2025 PMP

Staff is working on developing quantities for bid books for the major maintenance projects.

- Asphalt Mill and Overlay
- Roadway Reconstruction
- Slurry Seal
- Curb, Gutter and Sidewalk Replacement

Staff is anticipating to post the projects for the competitive bidding process the week of December 16th.

2025 Bridge Maintenance Program

Staff is working to finalize the bid package for work on the Castle Rock Parkway Bridge over State Highway 85. Staff is anticipating to post for competitive bids the week of December 16th.

2025 Facilities

Staff is working to finalize the bid package for maintenance work at the following parking:

- Fire Station 155
- Philip S. Miller Park
- Rock Park

Staff is anticipating to post for competitive bidding the week of December 16th.

Transportation Planning & Traffic Engineering Division

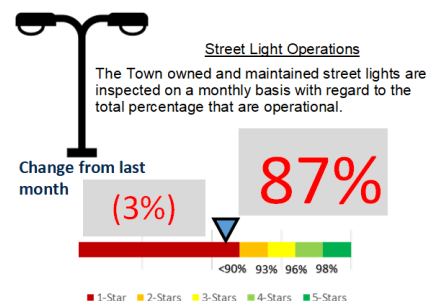
Taxi Voucher Program

For the month of November, the Taxi Voucher Program funded 104 rides; which is a 15% decrease from last year's November total of 122, and a 15% decrease from last month's total rides (122). 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 November, 19 individuals used the Taxi service. Of those individuals, 87% of the rides were for work, 7% for shopping trips, and 6% for medical appointments. Forty six rides were provided for people without access to a vehicle, 25 rides to seniors, and 33 rides to disabled riders.

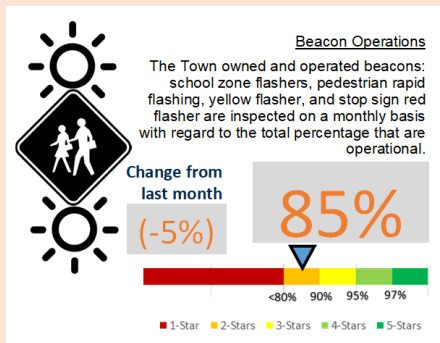
The Castle Rock Senior Center provided a total of 839 rides in November.

Traffic Engineering and Operations

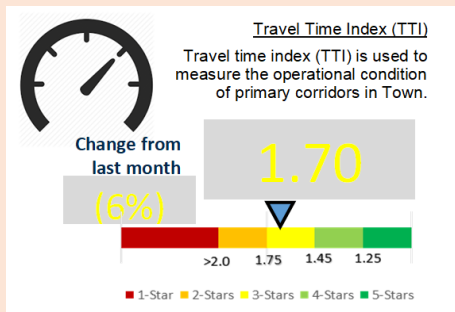
Street Light Operations



Beacon



Operations



Street Signs, Beacons and Pavement Marking Maintenance

For the month of November, the team completed 253 tasks. Of these tasks, 126 of them were sign work activities related to fabrication, install, repairs, replacements, inspections and investigations. Seventy-seven tasks were marking work activities related to fabrication, install, repairs, replacements, inspections and investigations. We had 12 beacon related tasks, including windshield inspections of 382 beacon assets. Other tasks included 1 small project, one special event, one tree trimming, and 34 tasks related to light fixtures. The team also provided support for two snow events this month.

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 November. Gilbert Street south of South Street is the area of concern. The policy document and the support petition were sent to the homeowner. Staff is still waiting for the results of the speed studies on Greenwater Circle and Canyon Drive. Staff is also waiting for residents to return the petitions for other streets before speed studies can be ordered. Staff met with homeowners on Rising Moon Way and will begin the voting process to remove the mini traffic circle and replace it

with a speed hump. If approved, the speed hump will be installed next spring.

Transportation Master Plan (TMP) Traffic Projection Update:

Town staff has received the final report. The last invoice will be paid and the project closed out. The next step will be to present the update to Public Works Commission and Town Council.

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, which is an 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 working on finalizing the IGAs with the City of Castle Pines and Douglas County. Once completed, the Task Order with Benesch consulting will be finalized and the Notice to Proceed issued. The study 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 are scheduled to discuss the mobility hub with Town Council in January. Town staff will meet prior to the Council meeting in December to discuss topics and parameters of the Council discussion.

Front Range Passenger Rail (FRPR):

No update: Town staff and staff from the FRPR are still planning to meet early next year to continue discussions about a potential train station in Town.

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

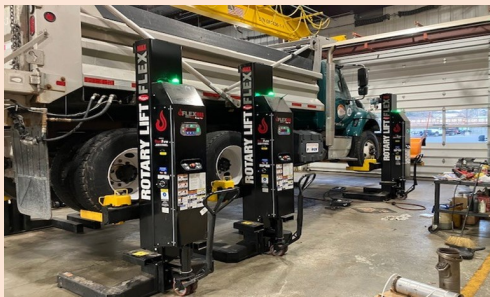
Street Operations & Maintenance Division

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.

Business as usual for the Fleet Services Division this month. Our team completed 103 work orders for 89 vehicles. More than half of the repairs were general repair jobs that were found during preventative maintenance (PM) scheduled maintenance. PM's are an important part of keeping our assets in services and providing critical levels of service for the community. Staff provided around the clock support during the first significant snow storm of this early season. Prior to this event there was a major component failure on one of the snow plow trucks. The transfer case shattered on unit 426 resulting in a \$25k repair. With support from our vendor, this vehicle went back into service the day before the storm. Fleet is gearing up for our annual inventory. Staff have been preparing to do physical inventory of parts, supplies and tools the second week of December. We are very excited to announce that the Fleet Services Division is fully staffed for the first time in 3 years. This will help the us with some of our back log for our PM schedule.



The Fleet Division finally received the highly anticipated asphalt patch truck for the Streets Division. This project started more than 3 years ago and suffered numerous delays in building the truck and the body. The Streets Division is thrilled to have this new asset available for use. We are waiting for our last two trucks ordered in 2024 to be delivered from Ford in December. This will be the first time in many years that all orders will be received the same year ordered. Very long delays with vehicle upfitting continues to plague the industry. Two snow plow trucks are being upfitted at our vendor in Denver and we hope to have at least one in service in December. Our in house upfitting for work trucks and police vehicles has been making slow progress. All equipment for seven police interceptors and six trucks arrived in November. Those builds will begin in December. New vehicle purchases for 2025 are currently under way. We will review specifications and have started receiving quotes.



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
- *Snow/Ice Control Operations

Asphalt Maintenance

The team was able to carry out a last-minute set of asphalt repairs after the early big snow storm on the 5th. The team worked 150 hours utilizing 7.21 tons of hot mix asphalt. One full depth patch and multiple potholes were repaired between the snowstorms.

Crack Seal and Mastic Operations

Pre PMP (Pavement Maintenance Program) crack seal operations continued as weather allowed. Higher temperatures allowed the pavement to dry sufficiently to allow for the operations to be undertaken. The crew was able to complete 7.36 lane miles of roadway utilizing 5075 lbs. of material.

Snow and Ice Control Operations

The team was deployed for two snowstorms during November. The first was a rare event where a storm system hit the area twice. The total response ran for 5 days and resulted in 25.1 inches falling in Castle Rock. The second storm produced 4.3 inches and a much smaller response was needed. The team in all plowed for 1541.5 hours and covered 15,914.47 miles. Both storms combined required 480 tons of de-icing material to mitigate icing and maintain traction. Level of service was achieved for both storms.

Equipment Maintenance

The first storm became a prolonged event which caused a significant amount of wear and tear on the equipment used. The team devoted 651 hours to maintaining and repairing equipment needed to respond to snow as well as to the other operations undertaken during the month. The team focused on smaller repairs to machines, lights, sanders, the plows themselves, plow bits and other parts that lie within the capabilities of the Division. These repair and maintenance functions are in conjunction with those undertaken by the Fleet Division and also allow Fleet to continue to maintain other equipment used by departments not involved in plowing. The Fleet Division assisted in no small part to the ability of the Town to maintain effective snow mitigation operations. Fleet took on the larger mechanical breakdowns

such as damaged transfer cases and more significant malfunctions.

Looking ahead

For December, the team looks to continue to be ready for snow storm response, the continuation of the Fall Sweep as weather allows, and post storm sweeping in support of air quality goals. The team will also address ice concerns as they arise and work to maintain and repair asphalt as best as possible before the asphalt plants shut down for the season.