

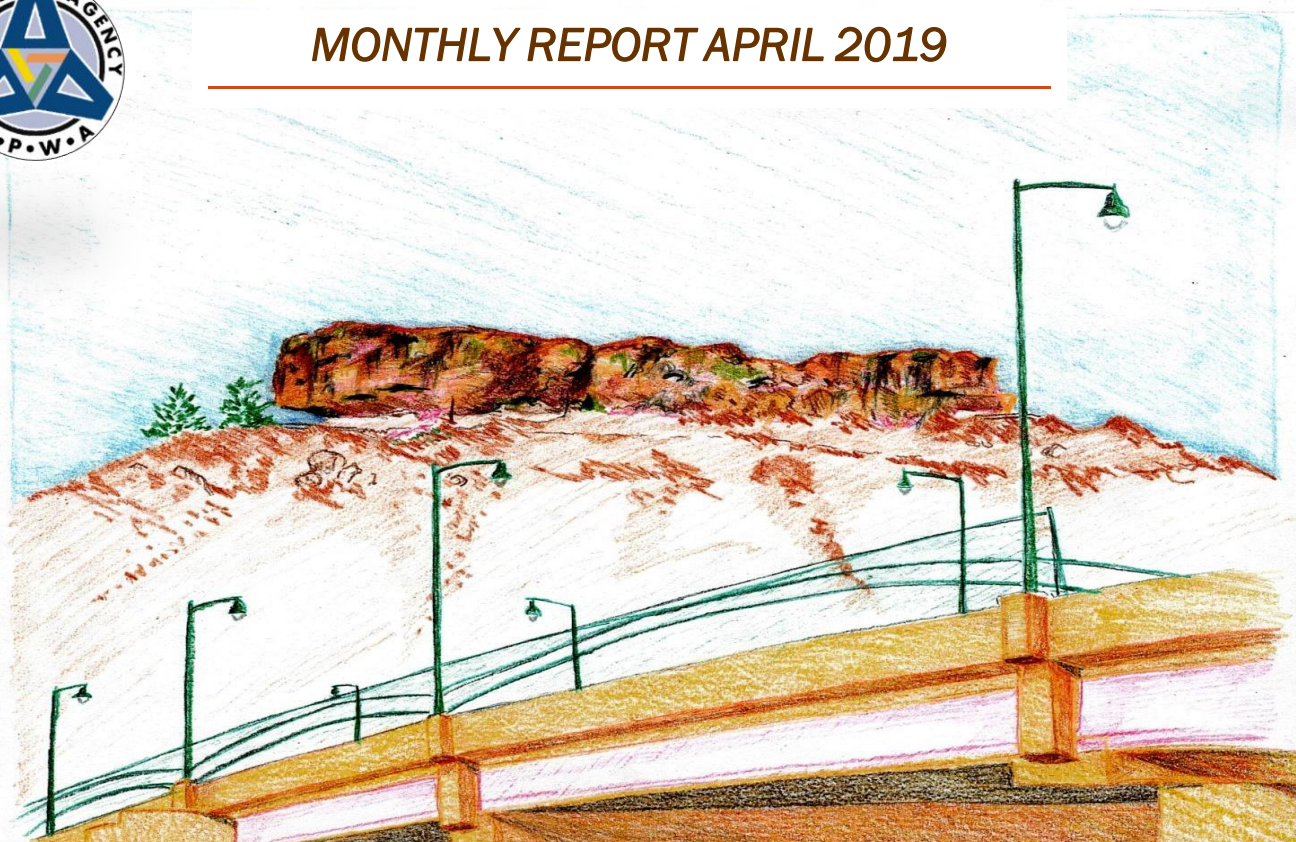


The Public Works Department operates under the CAN DO philosophy - We are committed to doing the job right with a positive attitude while staying dedicated to meeting the needs of our Town values and continually searching for opportunities to improve.

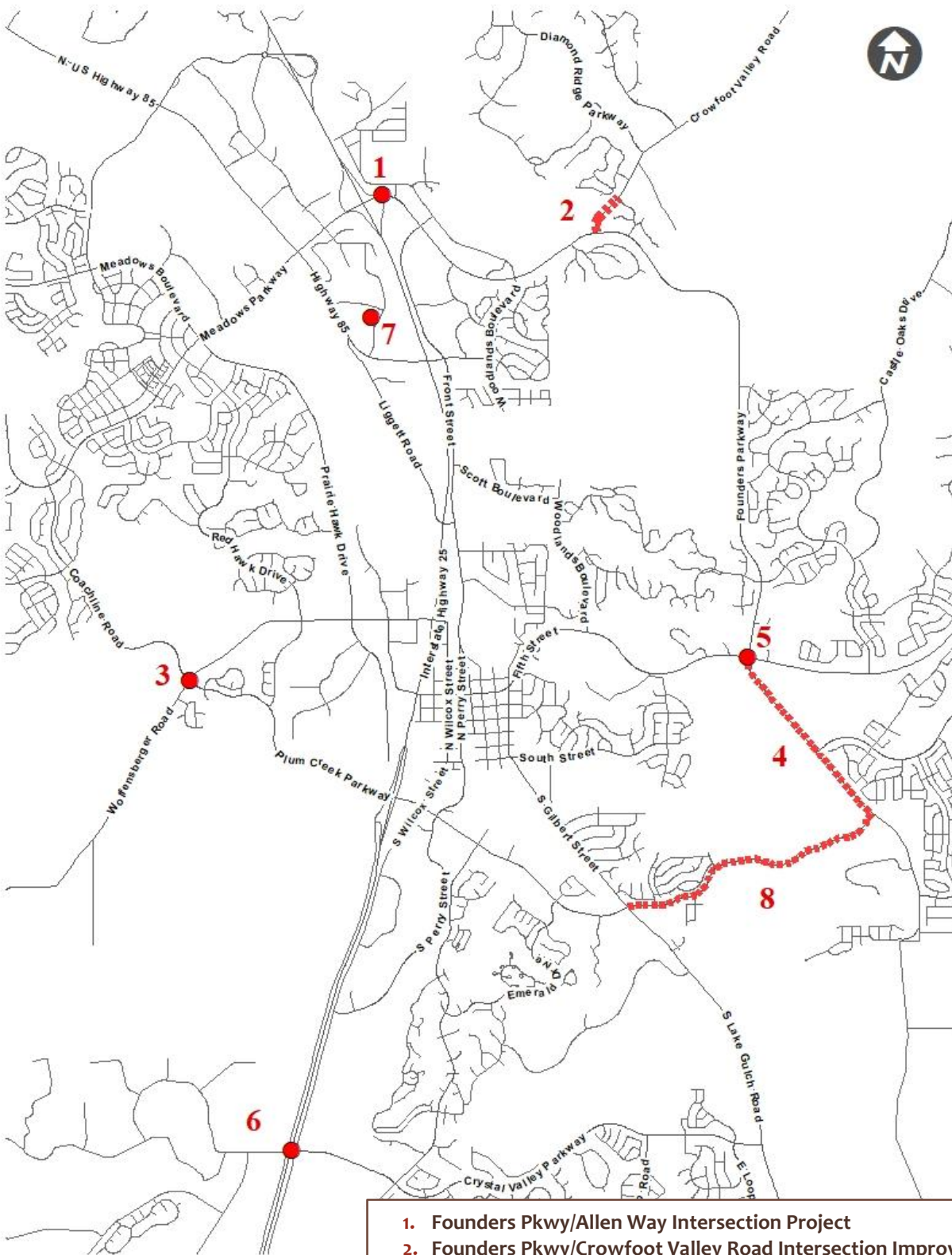
Our Mission: To provide outstanding service, safety and support for transportation infrastructure and maintenance.



MONTHLY REPORT APRIL 2019



CAPITAL PROJECTS



1. Founders Pkwy/Allen Way Intersection Project
2. Founders Pkwy/Crowfoot Valley Road Intersection Improvements
3. Roundabout at Wolfensberger Road/Plum Creek Pkwy
4. Ridge Road Widening (SH86 to Plum Creek Pkwy)
5. SH86/Fifth Street Intersection Improvements
6. Crystal Valley Interchange (Right-of-Way Acquisition)
7. Public Works Facility Expansion
8. Plum Crk Pkwy Widening & Plum Crk Pkwy/Gilbert Roundabout

1. Founders Pkwy/Allen Way Intersection Improvement Project – This project will address the need for the following improvements:

- An additional eastbound left turn lane from Founders Parkway to Allen Way
- A dedicated right turn lane from Founders Parkway to Allen Way
- An additional southbound right turn lane from Allen Way to westbound Founders Parkway
- An additional I-25 northbound on-ramp lane
- A second through lane at Allen Way and Allen Street

Phase: Design & ROW Acquisition – Felsburg, Holt & Ullevig is the design consultant for this project. The following is a summary of the design activities that took place during this month:

- A mandatory pre-bid meeting for Prime Contractor was held on April 8, 2019, four general contractors attended this meeting.
- Town opened bids for the Founder's Parkway (SH-86) & Allen Way Intersection Improvements Project on April 18 in which one bid was received from NORAA Concrete Construction Corp. for \$2,495,989. This bid is within the town's budget.
- Submitted letter to the Colorado Department of Transportation recommending awarding the project to NORAA Concrete Construction Corp.

Budget: \$760,000 **Design Completion:** Complete **Construction Completion:** Fall 2019

2. Founders Pkwy (SH86)/Crowfoot Valley Road Intersection Improvement Project and Crowfoot Valley Road Widening Project – This project will address the need for the following improvements:

- An additional eastbound left turn lane from Founders Parkway to Crowfoot Valley Road
- An additional northbound lane on Crowfoot Valley Road between Founders Parkway and Knobcone Drive
- A southbound free right turn lane from Crowfoot Valley Road to westbound Founders Parkway
- Widen Founders Parkway both eastbound and westbound between the Crowfoot Valley Road and Woodlands Boulevard
- Widen Crowfoot Valley Road from Founders Parkway to Knobcone Drive

Phase: Constuction – Kimley-Horn is the design consultant for this project. The following is a summary of the design activities performed this month:

- The contractor has been installing new storm sewer along Founders Pkwy in preparation of the pavement widening.
- The contractor has been working along the south side of Founders Pkwy: clearing and grubbing, excavating to the pavement subgrade elevation, prepping subgrade, and placing base course material in preparation new asphalt pavement.
- The contractor has been clearing and grubbing in the NW corner of the Founders Pkwy and Crowfoot Valley Rd intersection, including removing trees.
- The contractor has been working nights, the project remains on schedule.

Budget: \$3,550,000 **Construction Completion:** Winter 2019

3. Wolfensberger Road/Plum Creek Parkway Roundabout Project This project will accomplish the design and construction of a roundabout at this intersection to improve operations and minimize potential accidents. Phase: Construction – The following construction activities were performed by Rocky Mountain Excavating:

- Continue work on BMP's / GESC
- April 29, 2019 started back to work on the final construction stage

Budget: \$1.14M **Construction Completion:** Spring 2019

4. 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: Design: Stanley Consultants, Inc., has been

awarded the design contract for this project. 100% plans have been provided. Staff is working on requesting proposals to initiate the ROW acquisition, and utility relocation process. Staff is working with IREA to initiate agreements to have their facilities relocated. **Budget:** \$400,000 **Design Completion:** Spring 2019

5. Founders Parkway (SH86)/Fifth Street Intersection Improvements – The Town’s design consultant, Short Elliott Hendrickson, Inc. (SEH) investigated multiple alternatives to address safety concerns and capacity issues at this intersection. A roundabout was the preferred alternative by CDOT, who owns the right-of-way for this intersection. Phase: Design –

- Staff will find out if the Town will receive DRCOG funding in August of 2019. DCCOG Sub-Regional Committee has recommended award.
- Project will be designed per Federal requirements/standards if awarded funding.

Budget: \$340,000 **Design Completion:** Pending award

6. Crystal Valley Interchange – Right-of-Way Acquisition – The purpose of this project is to achieve acquisition of remaining right-of-way and set aside future project funding allowing potential funding partnerships to assist with advancing construction. Phase: Right-of Way Acquisition

- Appraisal Services
 - Town started the process of approving proposals for the Appraisal-Related Litigation Services.
- Acquisition Services
 - Working on Notice of Interest letters

Budget: Development Escrow **ROW Completion:** Fall 2019

7. Public Works Facility Expansion – This project consists of the addition and renovation of the Service Center building. Phase: Construction

Summary:

Mark Young, the general contractor for the Public Works Addition/Renovation had made great progress during the month of April. Work has continued on both the new phases of the addition which include; 1. The addition of two new fleet service bays on the north side of the existing building and 2. New office space on the south side of the existing building.

Fleet Service Bays: The foundation of the building was completed which consisted of the placement of both concrete footers and grade beams, followed by damp proofing and backfilling. Underground plumbing was also installed prior to the placement of the 160yd slab-on-grade.

Office Addition: The foundation for the office addition for the office addition was also completed as was the damp proofing and backfilling. Underground plumbing and electrical started and will continue into the early part of next month prior to slab-on-grade placement.

Upcoming Activities:

The month of May is looking to be a busy one as the pre-engineered metal building is due to arrive for the fleet service addition. Additionally, site work will commence in the north yard which will enhance both the electrical and parking situation. Lastly, the office



additional will place the slab-on-grade in early May and perform electrical and fire alarm work in existing areas of the building. **Budget:** \$4,960,349 **Construction Finish:** Spring 2020

8. Plum Creek Parkway Widening and Plum Creek Parkway/Gilbert Street Roundabout Project – This project will address the need for the following improvements:

- Convert Plum Creek Parkway/Gilbert Street intersection into a roundabout
- Reconstruct the existing 2-lane section of Plum Creek Pkwy from Gilbert to Eaton streets
- Widen Plum Creek Parkway from Gilbert Street to Eaton Street
- Widen Plum Creek Parkway from Eaton Street to Ridge Road

Phase: Design and ROW Acquisition – Kimley-Horn is the consultant for this project. The following is a summary of design activities performed this month:

- Continued working on the Widening of Plum Creek Pkwy from Eaton St. to Ridge Road design package.
 - Evaluated the drainage basins and storm sewer improvements
 - Reviewed roadway typical sections and grading impacts outside of right of way
 - Continued development of construction plans
- Continued finalizing the Roundabouts and Widening of Plum Creek Pkwy from Gilbert St. to Eaton St. plans and bid documents as listed below:
 - Continued design of retaining walls
 - Continued design of the final storm sewer and water quality pond
 - Continued conducting property appraisals and acquisitions
 - Continued the development of the project specifications
- Town issued a Task Order to Kimley Horn to break out a drainage design package that would allow the construction of the underground storm sewer to start this year.

Budget: \$794,375 **Design & ROW Completion:** Summer 2019

Traffic Signal System Upgrades (Phase 3) – This project is the third phase of a multi-year project that was approved as part of the Town's Strategic Plan early in 2015. The two main components of the Phase 3 project are installation of closed circuit television (CCTV) and travel time monitoring devices at key intersections. In the month of April, staff with IT and the camera vendor continued trouble shooting the remaining cameras not responding and identified the issue that will be resolved in early May. The only cameras not reporting video back to the Service Center are located at emergency signals near fire stations where network connectivity is in process by IT. Camera installation, including becoming operational with video feeds to the Service Center, will be completed in early 2019. This portion of the phase 3 project is on budget and awaiting final installation at some locations.

In April, we continued collecting historic travel time data from all the Bluetooth Bluetooth devices. CDOT COTrip managers have scheduled the Castle Rock portion to go live on May 7 pending the CDOT contractor's production schedule. This will provide the ability for the Town to share the travel time info to the public via web page and with CDOT's COTrip information service. A speed map is available through this link, <https://speedmap.crgov.com>. This phase of the project installation is complete and within budget.

A continuation of the phase 3 project is being undertaken with the incorporation of Automated Traffic Signal Performance Measures (ATSPM). A proof of concept project using advanced detection and high-resolution data acquisition and analysis of signal operations has been implemented for improved system maintenance, operation, and optimization. Staff is using ATSPMs along the Plum Creek Parkway corridor between Emerald and I-25, and at other problematic intersections. The Town's Strategic Plan from 2015 recommended signal system detection improvements that provided this type of information along key corridors. The use of ATSPMs meet this documented need and more, by providing a better understanding

of system operation and maintenance needs and is helping us better serve our stakeholders in a cost effective manner.

In April, the SQL database migration was completed with IT to a larger server. Staff also placed traffic counters at intersection approaches to verify reliability of advanced and stop bar counting technology. This will continue into early May. We are now collecting SPM data that will be used for a retiming project of this corridor in May to help identify the capability of SPM technologies.

Budget: \$520,000 **Construction Completion:** Spring 2019

2018 Rectangular Rapid Flashing Beacon (RRFB) Project – RRFBs consist of a pedestrian activated yellow strobe light which notifies drivers that a pedestrian is at or with in the crosswalk.



They have proven to be an effective means of enhancing pedestrian safety. Staff continued to get regular requests to provide pedestrian crossing enhancements around Town. These locations are added to a potential installation list, evaluated, and prioritized for installation as funds are available. The priority is based on pedestrian exposure, and speed of vehicles at the crossing.

In April, in conjunction with Police and Community Relations, we advised on a safety video series that aids in instructing drivers and pedestrians how to use these crossings. The videos can be seen here, crosswalk Safety – Episode 1 <https://youtu.be/r5lKeUPudUs>, and Crosswalk Safety – Episode 2 https://youtu.be/HQL_1w94Daw. The plan is to time the release around May the 4th with a Star Wars movie theme. Application of pedestrian crossing striping was on hold until weather allowed. Striping began in late April and is planned to be complete at all locations in early May. The project is on budget and schedule for timely completion in the Spring 2019. **Budget:** \$35,900 **Construction Completion:** Spring 2019

2019 Intersection Signalization Construction Projects – In April, Town Council approved a construction contract with Sturgeon Electric for 2019 Signal Construction at two intersections. These intersections include, Meadows Boulevard and Future Street and the reconstruction of the Factory Shops Boulevard and New Memphis Court span wire signal. Notice of Award and Notice to Proceed have been given to Sturgeon with a construction start date of May 6 and a target completion date of July 31. Long lead time items being procured by staff remain on time for construction. Town staff had a field coordination meeting with IREA for street light removals and power source installation in advance of the project. Staff met with Sturgeon Electric in the field to confirm pole locations. Sturgeon will be potholing for underground utilities prior to boring and drilling caissons. Staff also made contact with neighboring property owners to coordinate signal equipment installation around their access and landscaping areas. Construction will begin in earnest in May with full operation in the late Summer and punch-list items completed by Fall. This project is currently on time and on budget. **Budget:** \$667,000 **Construction Completion:** Fall 2019

2019 Illuminated Street Name Sign Project – Beginning when roadway and signal improvements were made at Plum Creek Parkway and Wilcox Street in 2016, illuminated street name signs have been incorporated into new signalized intersection construction projects and in 2019 staff will begin installing illuminated street name signs at priority intersections along the major “ring” road that loops around the Town of Castle Rock. In April, a purchase order was submitted for procurement of Gades illuminated street name signs. The signs have a 4-6 week lead time for delivery in early June. The locations in 2019 included Factory Shops Blvd and New Memphis Court, and Meadows Blvd. and Future Street. In addition, the plan is for signs to be placed at I-25 northbound and southbound off-ramps and Meadows/Founders Parkway, and ahead of planned scheduled date at I-25



and Plum Creek Parkway. This project is on schedule for completion in 2019 and under budget. **Budget:** \$55,000 **Completion:** End of 2019

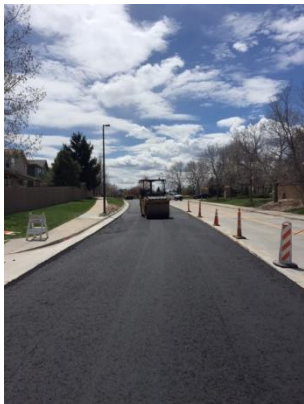
Engineering Division

2019 Pavement Maintenance Program (PMP) The 2019 PMP will focus its efforts in the West PMP area with additional work taking place on primary streets (Meadows Boulevard, Wolfenberger Rd., Butterfield Crossing, Foothills Dr., Cherokee Dr., & Morning View Dr.).

Sidewalk, curb and gutter repairs kicked off April 22. The residents & businesses within the West PMP area were notified via letters as well as the use of variable message boards, that repair and maintenance work was to begin. Work began in the downtown alleys to replace broken panels and improve drainage.

In general, work will progress through the West PMP area in a clockwise manner, starting in an area off Cherokee Drive. The Town's contractors will be preparing the streets to receive slurry seal, crack seal and mastic as well as asphalt patching and slurry. Sidewalk, curb and gutter repairs are expected to run through June and asphalt patching is scheduled to begin in late May and run through June. The asphalt slurry seal will follow in July.

Butterfield Crossing was closed between Meadows Blvd. and the



entrance to Meadow View elementary school. Work is progressing nicely, with the removal of the existing deteriorated concrete pavement in phase 1 & 5. Bottom mat paving in phase 1 was completed April 24.

Full Depth Reclamation concrete repair work started on April 8. The work started at Silverlace Dr. at Butterfield Crossing. and progressed south, the contractor is expected to begin reclaiming by May 20, weather pending.

2019 Facilities Parking Lot Improvements Program -

This contract will see needed improvements to three parking lots at Town Parks, and one Parking lot in the Downtown area as follows:

- Crystal Valley Tank
- Coachline Tank
- Red Hawk Golf Course (South half)
- Founders Park (Asphalt and Concrete sections)

Work is schedule to begin in August and continue through September.

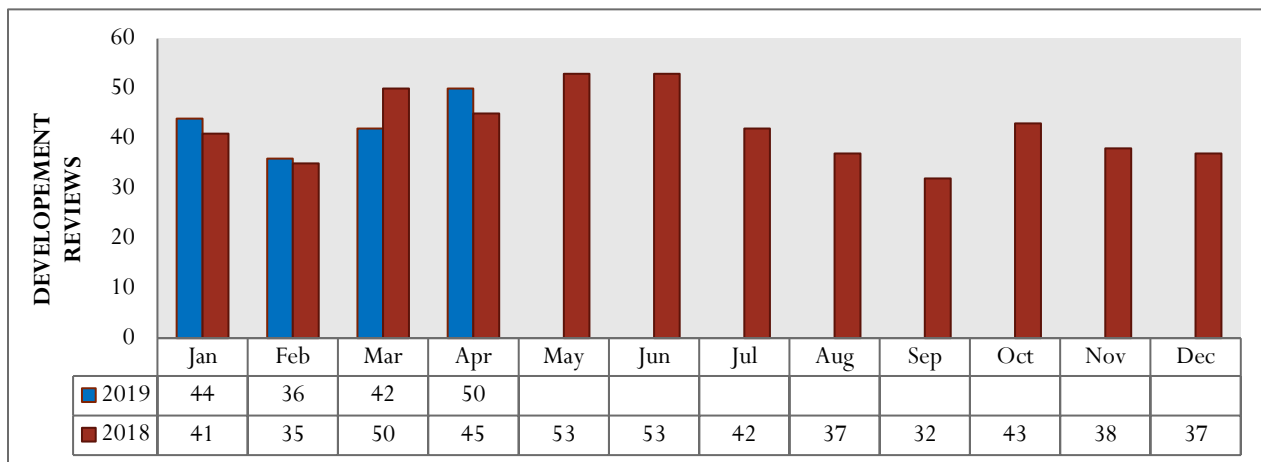
2019 Bridge Maintenance Program (BMP) - The contractor began work on the Perry Street Bridge this month. Work consists of repairing concrete and structural issues as well



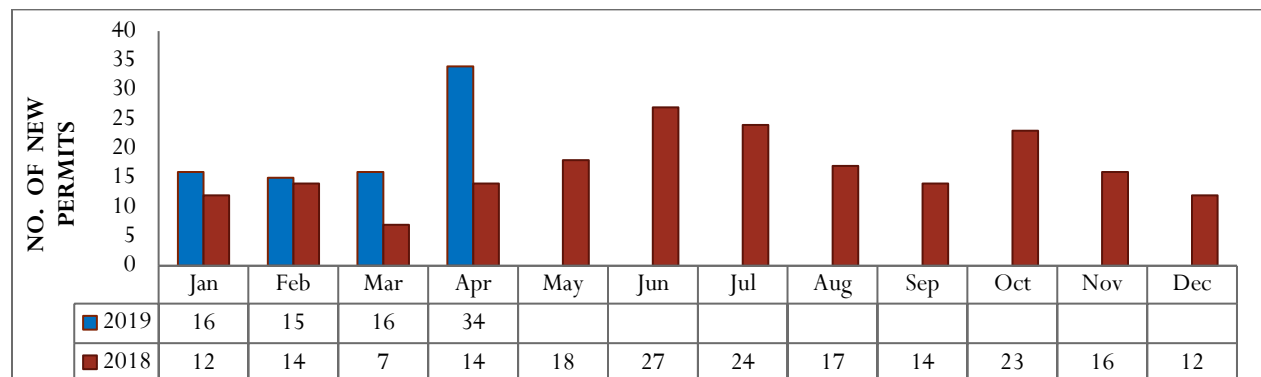
as replacing the decorative brick pavers that are broken or missing. Once work is completed on this bridge, they will move to the Flyover Bridge on Front Street.

Development Review and Permitting

Development Review - Included in the 50 submittals are 21 first time applications with 4 pre-applications. All reviews were completed on or before the due date by the PW Development Services Team.

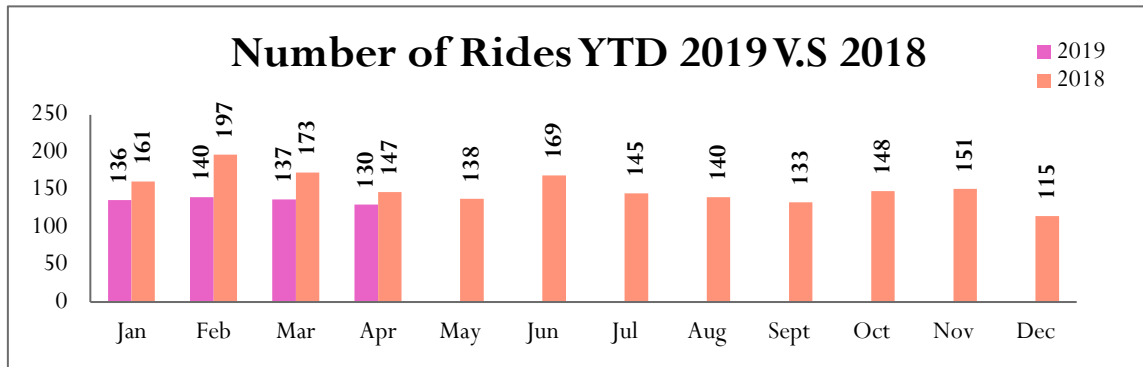


Permitting – 34 right-of-way permits were issued.

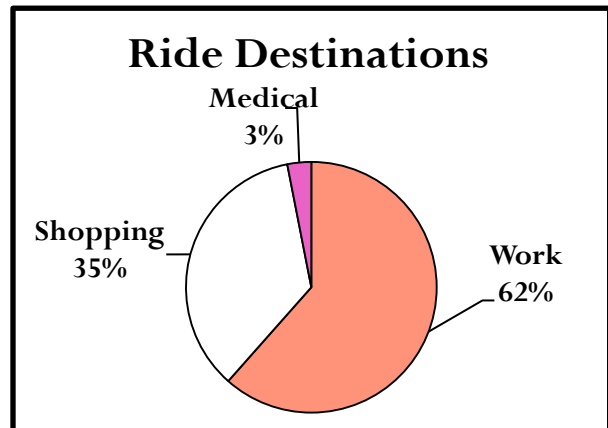
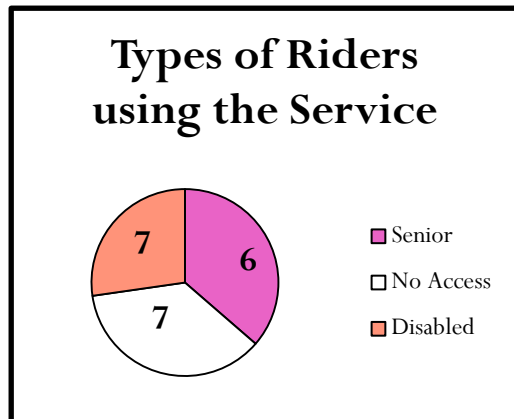


Transportation Division

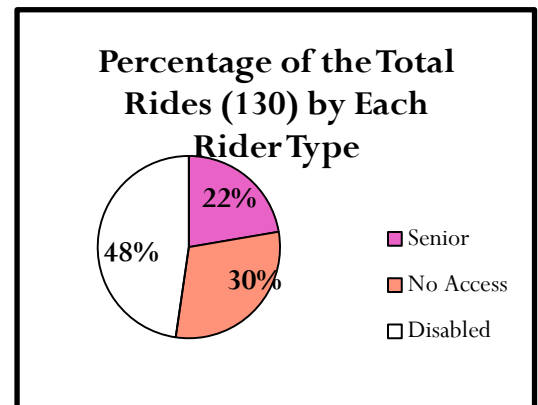
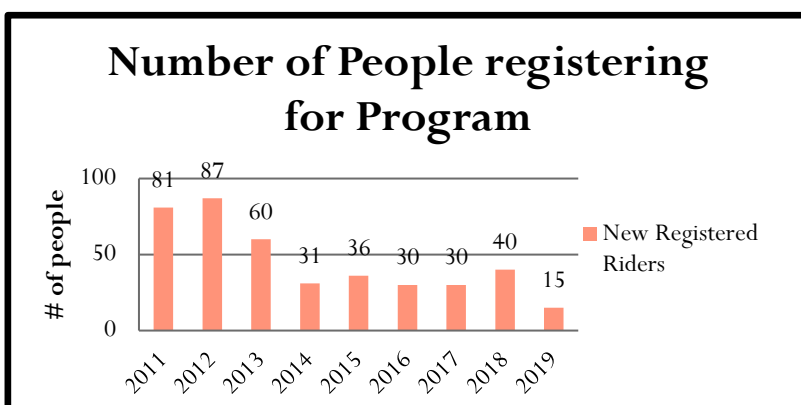
Taxi Voucher – For the month of April, the Taxi Voucher Program funded 130 rides; this was an 11% decrease from last April's total of 147 rides. Ridership this month is slightly down from last month likely due to weather.



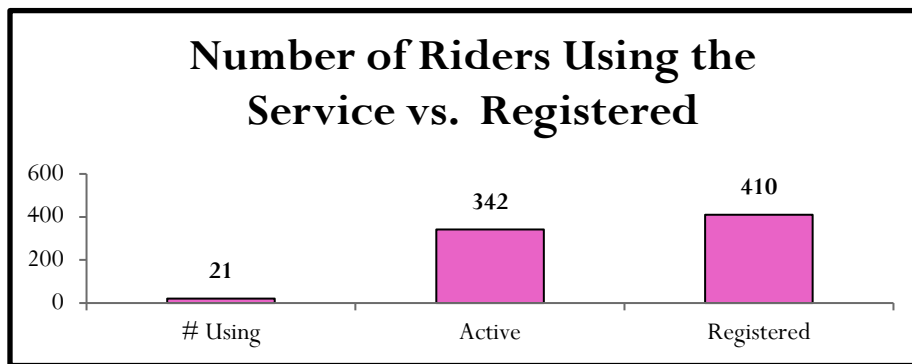
Rides are available for work, shopping or medical trips. This month 62% of the rides were for work, 35% were for Grocery Shopping Trips, and 3% for medical appointments.



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 April, 20 individuals used the Town's Taxi service.



There was one new registrants for the Taxi program this month. Since its inception, a total of 410 people have registered for the Town of Castle Rock Taxi Voucher Program. Currently 68 of these past registrants are inactive or have dropped out of the program.



Senior Activity Center Shuttle — The Senior Activity Center provided 777 rides in the month of March, which was an 11% increase from last month's rides of 700. The volunteer driver program provides service Monday through Friday from 9 am to 3 pm.

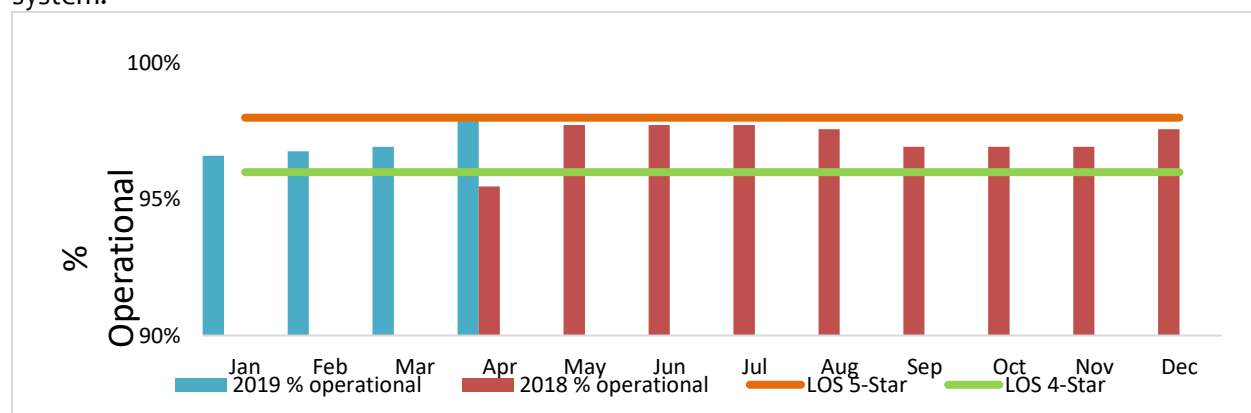


Traffic Engineering & Operations

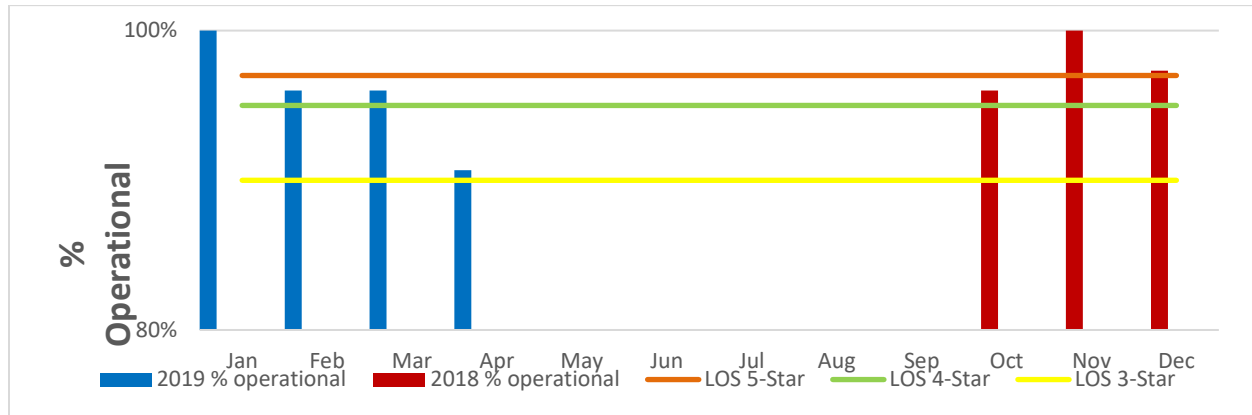
Traffic Signal Operations In the month of April, staff addressed 16 requests from the public related to traffic safety and signal operations. Eight of those requests related to the CDOT signal at Meadows and US 85. A total of 74 traffic signal maintenance tasks were completed in April. Routine maintenance visits included 46 inspections of signalized intersection operations, updating of controller configuration, and quarterly preventative maintenance activities and follow up work. Town staff made 23 response tasks and three were made by our signal maintenance contractor. Additional signal visits were made by the maintenance contractor to repair a street light on I-25, to perform cabinet assembly work on 5th Street, and to assist with the installation of new dynamic lane use signs on Plum Creek Parkway. Response tasks included five emergency response tasks, and 18 non-emergency tasks. The emergency response tasks included four flash operations at Plum Creek and the I-25 Northbound ramp, and one flash operation at Wolfensberger and Park Street. The most frequently visited signal at five times, is Plum Creek Pkwy and I-25 NB, two signals were visited four times, including Wolfensberger & Caprice, and Meadows Pkwy & Meadows Blvd.



Street Light Operations - The Town owned and operated street lights are inspected on a monthly basis with regard to the total percentage that are operational (i.e. on at night and off during the day). In the month of April, approximately 98% of these street lights were operational. This operational level is a five of five-star rating in the department's infrastructure report card rating system.



Beacon Operations - The Town owned and operated beacons: school zone flashers, pedestrian rapid flashing beacons, yellow flashers, and stop sign red flasher are inspected on a monthly basis with regard to the total percentage that are operational. In the month of April, two observations of pedestrian beacons not operating were reported and one day of AM school beacon operation did not function, therefore April's operational status is at 91%. This operational level is a three out of a five-star rating in the department's infrastructure report card rating system.



Street Signs and Pavement Marking Maintenance - During the month of April the crew accomplished a total of 574 Tasks. Of this total, 317 of these tasks were related to windshield inspections of signalized intersection stop bars and crosswalks for inventory and the asset's condition rating. Roughly 100 tasks were related to the fabrication, repair/replacement, installation, investigation or maintenance tasks associated with signs. 24 of these tasks were related to reviewing and clearing utility locates.



During the month, the crew also attended IMSA training for recertification and obtaining new certifications to maintain their current knowledge and skill sets within the signs and markings field. Along with receiving training from Colorado 811 (the Utility Notification Center of Colorado) for maintaining their knowledge of locate practices and the recent statute changes that have been implemented for the State of Colorado.

Transportation Planning

Neighborhood Traffic Calming Program (NTCP) Update

New Inquiries in April

- There was one new traffic calming inquiry in April. Homeowners in the Diamond Ridge subdivision have asked the Town to look into speeding concerns along Diamond Ridge Pkwy. Town staff conducted a vehicular speed and volume study for the street and determined it qualifies for the program. Since this street is considered a collector street the qualifying thresholds are higher than a residential neighborhood street. In order to qualify of the program the 85th percentile speed must be 5 mph over the posted speed limit of 30 mph and the vehicles per day must be greater than 1,500. According to the data collected, the 85th percentile speed is 40 mph and the vehicle count is over the 1,500 vpd. The recorded volume ranged between 1,600 and 1,750 vpd. In May, Town staff will be providing this information to the neighborhood point of contact.



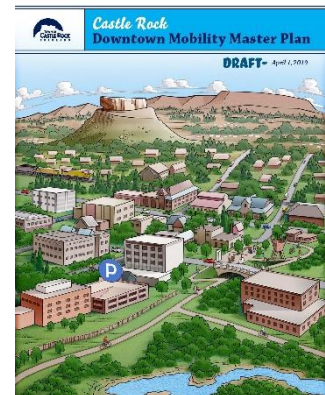
Previous Inquiries

- **North Meadows Drive:** A neighborhood meeting occurred on April 11 at the Grange facility in the Meadows. Approximately 15 homeowners attended the meeting. Town staff shared the vehicular speed and volume collected on N. Meadows Drive. After a brief discussion on the NTCP process the homeowners agreed to move forward with the program. Accordingly, the N. Meadows Drive traffic calming project is now in Phase 1 of the program. Over the next four months the Town, along with the neighborhood, will explore more passive approaches to slow vehicle speed on the roadway. This will include an educational component, such as yard signs and radar feedback signs. The Police Department will also increase enforcement of the speed limit and the Traffic Division will examine any potential signing or striping changes to slow traffic. The actual travel speed will be reassessed at the end of the four months to determine if speeding is still a problem. If the 85th percentile speed is reduced below the program's qualifying speed of 30 mph, then the project will be considered complete. However, if the 85th percentile speed is still above 30 mph, then the project moves into Phase 2 and will start to look at engineering changes to the roadway.

Development Review

Staff reviewed and commented on three transportation impact studies, two pre-application submittals, and one Douglas County referral. All reviews were completed on time.

Downtown Mobility Master Plan – A revised draft version of the plan has been uploaded to the project website for public review. Town staff also presented the DMMP to the Planning Commission for review and comment. There was a brief discussion on intersection level of service and how the proposed projects would be implemented and cost of projects. Several implementation options were discussed, such as potential partnerships through capital or maintenance projects. A presentation will be given to the Public Works Commission in May with a recommendation request to Town Council. The plan will be presented to Town Council in June seeking approval of the plan through resolution. Any additional comments received prior to the Council meeting will be incorporated into the document.



I-25 / Blackfeather Trail Interchange and Founders Corridor Study - There were no meetings with CDOT or Douglas County in April. Town staff is still exploring potential grant opportunities to fund the Planning and Environmental Linkage (PEL) study. Additionally, CDOT and Douglas County will be asked to partner with the Town, including financial contributions.

Future CDOT Bustang Stop - There were no meetings during April with CDOT staff to discuss the future Bustang stop in Castle Rock.

DRCOG 2021 – 2023 Transportation Improvement Program - The Douglas County Sub-regional Steering Committee final project list will be presented to the DRCOG Transportation Advisory Committee and Board in May. There are 10 total projects from Douglas County, including the SH-86/5th Street and Founders Pkwy/Ridge Road intersection. The recommendation of the sub-regional committee is for the Town of Castle Rock to receive \$4.225 million of DRCOG funds to design and construct the intersection improvements. Additionally, there are two Castle Rock projects ranked first and second on the waiting list should additional funds become available. Below is a list of the 10 recommended projects within the Douglas County sub-region.

Project Sponsor	Project Name	DRCOG Grant Funding Recommendation (in Million \$)
Lone Tree	I-25 / Lincoln Traffic & Mobility Plan	\$1.25
Douglas County	US-85 Capacity Improvements: SH 67 to Meadows Pkwy (preconstruction)	\$0.855
Parker	High Plains / Cherry Creek Trail Connector	\$0.375
Littleton	County Line Road Capacity Improvements: Broadway to University Blvd.	\$5.5
Castle Rock	SH 86 / 5 th St. and Founders Pkwy / Ridge Rd intersection improvements	\$4.225
Parker	Parker Road Operational Improvements: Lincoln Ave to Pine Lane	\$1.75
Douglas County	SH 83 Safety Improvements: Bayou Gulch Road to El Paso County	\$5.5
Lone Tree	C-470 Grade Separated Trail over Acres Green Drive	\$2.0
Larkspur	Spruce Mountain Road Bicycle and Pedestrian Improvements: Perry Park to Town Hall	\$0.4
Parker	Parker Road Multi-Use Trail / Sidewalk: Twenty Mile Road to Hess Road	\$1.0
TOTAL		\$22.855



Fleet Services

"Keeping Castle Rock on the Move"



As we drive around this Town of ours and see how busy all the different departments are with all the growth, almost all of them have to rely on their Town issued vehicles to keep up the first class service that we provide to the citizens of Castle Rock. Here at the Fleet Division we take great pride in knowing that those vehicles are reliable and safe to operate.

Fleet Services Division was kept very busy in April 2019, catching up on prevenative maintenance and putting new vehicles in service. Work orders completed were 161 which is much higher than our average of 105 a month. The Fleet Division billed out \$75,000 of parts and labor. The Fleet finished 81.4% of our work orders in the first 24-hours of being reported which was above our benchmark of 75% being done in the first 24-hours. Vehicle availability for the month was good at 99.7% which is above our benchmark of 95%. Technican productivity was very good with a productivty percentage of 84.4% well above our benchmark of 70%. The Fleet Division is also putting the final touches to four new Chevrolet Colorados for the Water Department.



New vehicles almost ready for in-service



New Chevrolet Colorado for CR Water

Objective/Benchmark: Complete at least 75% of our Work orders within 24-hours of coming to shop.

Outcome: Fleet team completed 81% of the work orders within 24-hours of opening repair requests or service requests. This benchmark number shows how quick the Fleet Division is working on vehicles to get them back on the road.

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

Outcome: Town vehicles and equipment were available 97.7% 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: Technican productivity was 84.4%. This was well above our benchmark of 70% compared to the standard set by the American Public Works Assosiation (APWA).

	YTD	April-2019	2017	Goal
Operational availability of fleet vehicles: Total hours of equipment downtime are divided by total equipment hours available. This provides a downtime percentage.	98.2%	97.7%	98.5%	95%

Street Operations & Maintenance Division

During the month of April, the Street Operations & Maintenance Division (SO&MD) performed work in six (6) maintenance operations:

- Snow & Ice Control
- Weed Control
- Equipment Maintenance
- Street Sweeping
- Pothole Patching
- Special Operations

Snow & Ice Control

April saw nearly 8 inches of snow to some areas of Castle Rock. The overall high temperatures allowed the majority of the snow to melt away, Streets crews were required to respond to one snow storm that brought 5 inches of snow. Snow and Ice mitigation is a Town wide operation and close cooperation with Castle Rock Water, Castle Rock Parks, and other divisions within Public works such as Traffic and Development Services are essential to making the snow operation a success.



Weed Control

Weed control operations are already underway. Working between snowstorms, Streets crews have been working to apply pre-emergent herbicides to nearly **two linear miles** of roadway medians to proactively control weeds in these hard to mow locations. These operations are undertaken to ensure weeds do not inhibit the visibility for traffic but also serve to enhance the aesthetics of the roadways.



Street Sweeping

Streets Division crews continued post storm sweeping operations covering just over **622 lane miles** of primary and secondary roadways. This program is intended to comply with air quality standards by removing the aggregate put down by plow crews for traction as soon as possible. This helps with air quality as vehicles will run over the grit and over time will turn it into airborne dust particulates which is a prime contributor to smog. The Streets Division also has begun the spring sweep, in which every road in town is cleaned by the street sweepers. Thus far crews have swept **251 lane miles** of the Town for this program. Both sweeping programs combined, for the month of April, have resulted in **690.02 cubic yards** of material has been removed from the roadways and taken to the sanitary landfill.



Pothole Patching

Potholes have been opening up in ever greater numbers with the rising temperatures. Streets Division is working hard to get them repaired quickly and properly. Crews used **36 tons of hot mix** asphalt to repair larger problems like those found in the Woodlands, Meadows, and Crystal Valley. The crews also used over **two tons of cold mix** asphalt patch on the smaller potholes found all over town. **1500 pounds of concrete mix** was used to repair curbs damaged by plow operations and smaller potholes on concrete roadways as well. These operations are vital to ride quality as well as the maintenance of the roadway itself.



Equipment Maintenance

Streets Crews worked over 472 hours on keeping the various machinery vital to the Streets Division operations. These repairs are varied in nature and almost never a standard fix. From repairing sanders and plow blades to fabrication parts for street sweepers, Streets crews are ready and able to step up to the task and keep the operations moving forward.

Special Operations

Streets crews engaged in numerous special operations including storm debris removal and guardrail repair. Crews worked to remove trees downed by high winds from sidewalks and roadways in order to quickly re-establish safe travel paths for both vehicles and pedestrians. Crews also assisted CDOT with guardrail repair on the I-25 off ramp to Castle Rock Parkway.



Looking Ahead

Looking into May, Streets Division will continue pothole and asphalt patching operations, larger repairs are presently planned for nighttime operations in multiple locations throughout Town. The spring sweep is well underway and will provide the Town with a much needed cleaning. Crack Seal maintenance operations are planned for later in May. Road shoulder maintenance and gravel road maintenance will be planned to help these area recover from a winters worth of wear.