



PARK COUNTY PUBLIC WORKS 2023 PROJECT LIST



PROJECT SUMMARY FOR 2023

CHIP SEAL

ROAD NAME	DISTANCE (MILES)	PROJECT TYPE	COST	DISTRICT
BURLAND ROADS	7.5 Miles	1-Pin Chip Seal ½"	N/A*	D1
CR 23	2.83 Miles	2-Pin Chip Seal ¾"	\$127,330	D3
CR 92	2.0 Miles	2-Pin Chip Seal ¾"	\$90,000	D3
CR 68	1.8 Miles	1-Pin Chip Seal ½"	\$37,914	D1

*Funds will be provided by Highline (South Park Telephone)

TOTAL FOR CHIP SEAL \$255,244

ASPHALT PAVEMENT

ROAD NAME	DISTANCE (MILES)	PROJECT TYPE	COST	DISTRICT
APRON EXTENSIONS	230 TONS	EXTEND APRONS FROM HYW 9	\$23,000	D2

TOTAL FOR ASPHALT PAVEMENT \$23,000

SURFACE UPGRADE

ROAD NAME	DISTANCE (MILES)	PROJECT TYPE	COST	DISTRICT
CR 12	2.8 Miles	Gravel and Apply Mag	\$20,000	D4
CR 15	6.0 Miles	Gravel and Apply Mag	\$45,000	D2
CR 43	8.0 Miles	Micro Surface	\$35,000	D1
VALLEY OF THE SUN	2.0 Miles	Upgrade Surface	\$15,000	D2

TOTAL SURFACE UPGRADE \$115,000

PREFACE

This book is intended to be the construction manual for the projects that will be completed in the 2023 season. For each project the estimated material quantities are listed as well as specifications, costs and a general description of the work. In addition, total project costs and project budget comparison is included. In 2022, there were many challenges due to staffing shortages and a full summer of monsoon rains. Much of the time this summer was spent cleaning up after the rains. These two factors contributed to several projects needing to be delayed. At this time Project 1 (CR 68) did not receive the planned chip seal overlay, however, the recycle did receive a stabilization treatment. The recycle on Wandcrest was reworked and overlaid with chip seal instead, because of the very poor condition of Wandcrest, as well as the ongoing timber sale and resulting heavy log trucks still utilizing CR 68 this summer. Project 2 (final segment of chip seal on CR 32) has been completed. Project 3 (CR 59 and 92) did not receive the planned 1-pin chip seal overlay this year. After better evaluations as well as traffic loadings, it was determined that the work should start on CR 23 with a full 2-pin reconstruction. This 2.8-mile stretch on CR 23 has now been ground re-mixed and stabilized and will provide a much safer driving surface through the winter. This stretch of CR 23 will be ready for the scheduled chip seal in June of 2023, at which time the overlay will begin for CR 90,92 and 59. Project 4 (paving of aprons) did not occur this year as District 4 only has three operators. District 4 operators have spent much of their time re-grading after the rains. The priority of District 4 this fall is to improve drainage in critical areas and grade as many of the roads in Valley of the Sun, Placer Valley and Ranch of the Rockies to prepare for winter. Project 5 (Mill Iron D cul-de-sacs) was completed in late October. Project 6 (64 Bridge) will require an outside contractor to complete the project, it is planned we will obtain bids in early 2023, and schedule the work for spring 2023. Project 7 (Mountain View) due to the issues described above it was not possible to haul material from the mine on Penn Mt. this year. This project is planned to continue into 2023. Project 8 (Silverheels) was completed in early June.

This year Highline (South Park Telephone) placed new fiber optic in the roads in Burland including CR 72, Rosalie, Burland Drive, Bluebird and Yellow Pine for a total of 7.5 miles. Highline now has an agreement with Park County to provide the funding for a 1-pin chip seal overlay on these roads, this work will begin in June of 2023. Also, CR 23 will receive a new 2-pin chip seal overlay. CR 68 will receive the 1-pin chip seal overlay that was postponed from 2022. Roads that currently receive mag chloride will be re-treated in 2023. The work on CR 12 that was scheduled for 2022 will be completed in 2023 as well.

It is our expectation that we will be able to retain our current staff as well as add additional operators and truck drivers this winter and spring. However, if we are not able to increase our current staff prior to project season we have included a prioritization of the planned projects for 2023. Depending on staffing, available funds and weather conditions there are other projects that we would like to work on, these are listed as contingency projects for the 2023 season.

2023 PLANNED PROJECTS AND BUDGET

SUMMARY OF COSTS FOR PROPOSED PROJECTS IN 2023

PROJECT	TOTAL COST	2023 PROPOSED BUDGET	OVER/UNDER
MAG STABILIZATION(DUST SUPPRESENT) INCLUDING RE-APPLICATION) *	\$ 180,000	\$200,000	-\$20,000
ROAD OIL	\$255,244	\$230,000	+\$25,244
OTHER ROAD MATERIALS	\$45,000	\$50,000	-\$5,000
ASPHALT PATCH	\$100,000	\$100,000	0
ADDITIONAL CULVERT/CATTLE GUARD	\$15,000	\$20,000	-\$5000
TOTALS	\$595,244	\$600,000	-\$4,756

*Includes the placement of the initial application of dust suppressant on 6 miles of CR 15 to complete the entire length of CR 15 with dust suppressant. Also includes 2.8 miles of dust suppressant on CR 12, and beginning the reconstruction of chip seal on CR 23 and CR 92.

PROJECT NUMBER 1

CR 72, ROSALIE, BURLAND AND ROLAND

LENGTH	PROJECT TYPE	COST
7.5 MILES	1-PIN CHIP SEAL OVERLAY	MATERIAL COST FROM SPT

DESCRIPTION

This project will include placing a 1-pin chip seal overlay on top of the existing chip seal roads in the Burland area. Per an agreement with Highline (South Park Telephone) to place their fiber optic in these roads, they will provide funding for this chip seal overlay in 2023.

ESTIMATED QUANTITIES

CSS-1H 58,080 Gallons

CHIP AGGREGATE 3,000 Tons

REQUIRED EQUIPMENT

DISTRIBUTOR 2

ROLLER 2 RUBBER TIRE

CHIP SPREADER 1

TRUCKS 4

PERSONNEL REQUIRED

CREW 15

DURATION 15 DAYS

ANTICIPATED START DATE:

June, 2023

PROJECT NUMBER 2

CR 43 and 47

LENGTH	PROJECT TYPE	COST
8 MILES	MICRO SURFACE	\$35,000

DESCRIPTION

This project will include placing a preventative treatment on the existing chip seal surface. This preventative treatment is to be applied after crack sealing and patching are complete. It is intended to extend the life of the chip seal for an additional 2 to 4 years before the road needs to receive an overlay.

ESTIMATED QUANTITIES

OIL 17,000 Gallons

REQUIRED EQUIPMENT

DISTRIBUTOR 1

PERSONNEL REQUIRED

CREW 10 (flaggers)

DURATION 8 DAYS

ANTICIPATED START DATE:

June, 2023

PROJECT NUMBER 3

CR 23

LENGTH	PROJECT TYPE	COST
2.83 MILES	2-PIN CHIP SEAL	\$127,330

DESCRIPTION

This project will include placing a new 2-pin chip seal on CR 23. This road was re-worked and compacted in 2022 and was planned for a 2-pin chip seal, however, due to on-going inclement weather chip oil was suspended prior to placing the chip seal. At this point it should take minimal preparation in 2023 to place the chip seal.

ESTIMATED QUANTITIES

CSS-1H 43,800 Gallons
CHIP AGGREGATE 2,200 Tons

REQUIRED EQUIPMENT

DISTRIBUTOR 1
ROLLER 1 Steel Drum
 1 Rubber Tire
CHIP SPREADER 1
TRUCKS 4

PERSONNEL REQUIRED

CREW 15

DURATION 8 DAYS

ANTICIPATED START DATE:

July, 2023

PROJECT NUMBER 4

CR 92

LENGTH	PROJECT TYPE	COST
2 MILES	2-PIN CHIP SEAL	\$90,000

DESCRIPTION

This project is the beginning of placing a new 2-pin chip seal on CR 92. This will be a multiyear project to restore this road.

ESTIMATED QUANTITIES

CSS-1H 30,948 Gallons
CHIP AGGREGATE 1,800 Tons

REQUIRED EQUIPMENT

DISTRIBUTOR 2
ROLLER 1 Steel Drum
 1 Rubber Tire
CHIP SPREADER 1
TRUCKS 4

PERSONNEL REQUIRED

CREW 15

DURATION 8 DAYS

ANTICIPATED START DATE:

July, 2023

PROJECT NUMBER 5

CR 68

LENGTH	PROJECT TYPE	COST
1.8 MILES	1-PIN CHIP SEAL OVERLAY	\$37,914

DESCRIPTION

This project is held over from last year. A 1-pin chip seal overlay is planned to be placed on top of the recycle on CR 68. The recycle will first be re-worked and shaped prior to the placement of the chip seal.

ESTIMATED QUANTITIES

CSS-1H 13,950 Gallons
CHIP AGGREGATE 1,000 Tons

REQUIRED EQUIPMENT

DISTRIBUTOR 2
ROLLER 2 Rubber Tire
CHIP SPREADER 1
TRUCKS 4

PERSONNEL REQUIRED

CREW 15

DURATION 4 DAYS

ANTICIPATED START DATE:

August, 2023

PROJECT NUMBER 6

VALLEY OF THE SUN

LENGTH	PROJECT TYPE	COST
2 MILES	UPGRADING EXISTING GRAVEL ROAD SURFACE	\$15,000

DESCRIPTION

This project is a continuation of work on roads in the Valley of the Sun to provide better driving surfaces. The on road rock crusher will be utilized along with the addition of clay binder. Material will be hauled from a local source for additional road surface.

ESTIMATED QUANTITIES

REQUIRED EQUIPMENT

GRADER	1
ROLLER	1 Sheep Foot 1 Rubber Tire
WATER TRUCK	1
TRUCKS	2

PERSONNEL REQUIRED

CREW 3

DURATION 20 DAYS

ANTICIPATED START DATE:

May -July, 2023

PROJECT NUMBER 7

CR 15

LENGTH	PROJECT TYPE	COST
6 MILES	UPGRADING EXISTING GRAVEL ROAD SURFACE	\$45,000

DESCRIPTION

This project will include re-shaping the center section of CR 15, removing some of the unsuitable soil and replacing it with stable pit run type material. Once this prep work has been completed approximately 6 inches of road base will be added and the entire length of CR 15 will be treated with mag chloride.

ESTIMATED QUANTITIES

REQUIRED EQUIPMENT

GRADER	2
ROLLER	1 Sheep Foot 1 Walk and Roll
LOADER	1
WATER TRUCK	1
TRUCKS	2 Belly Dump

PERSONNEL REQUIRED

CREW 4

DURATION 20 DAYS

ANTICIPATED START DATE:

April or May weather dependent, 2023

PROJECT NUMBER 8

CR 12

LENGTH	PROJECT TYPE	COST
2.8 MILES	UPGRADING EXISTING GRAVEL ROAD SURFACE	\$20,000

DESCRIPTION

This project will include re-working CR 12 the challenger crusher will be utilized to crush rock from the back slopes and ditches, with the addition of clay for binder. Class 5 road base that is pre-mixed with clay will be added to the road surface and the entire road to Park City will be treated with mag chloride.

ESTIMATED QUANTITIES

REQUIRED EQUIPMENT

GRADER	2
CHALLENGER CRUSHER	1
ROLLER	1 Sheep Foot Walk and Roll
WATER TRUCK	1
TRUCKS	2 Belly Dump

PERSONNEL REQUIRED

CREW 4

DURATION 20 DAYS

ANTICIPATED START DATE:

April or May weather dependent, 2023

PROJECT PRIORITIES

In the event that it becomes impossible to complete all of the listed projects for the 2023 season, due to impacts from staffing levels, weather, funding or other unforeseen circumstances, the following will be the prioritization of the 2023 projects.

PROJECT	PRIORITY TO COMPLETE	REASON
Project 1 Burland Chip Seal	1	Per agreement with Highline (SPT) they will pay for the cost of this overlay, currently they are patching the trenches in the affected roads, but to assure the road surface will last an overlay is needed, this was the case before they began work in spring of 2022.
Project 2 Micro Coat on CR 43	1	This is imperative for spring/summer 2023 once significant patching and shoulder work are complete the Micro Coat will preserve the road for additional years. The Micro Coat application will be completed by the supplier as specialized equipment is required.
Project 6 Valley of the Sun	1	This is a very important project as the roads in the Valley of the Sun are in need of improved surfaces. Traffic in this area is continually increasing. Grading alone no longer provides an acceptable driving surface.
Project 8 CR 12	1	CR 12 serves both residential areas, mines and recreational areas. The surface from Highway 9 to Park City needs to be improved with gravel and dust suppressant.
Project 3 CR 23	2	After the work is performed on CR 23 in the fall of 2023 it will need to be chip sealed. This road is a major access to state parks as well as several residential areas.
Project 4 CR 92	2	This is a multi- year project that needs to be started in order to preserve existing chip seal. Each year that this is delayed the existing surface deteriorates further.
Project 7 CR 15	2	This road is experiencing increased traffic both from residential development as well as it serves as a short cut to access the 11-mile state park and SWA areas. At some point with available funding a hard surface will need to be placed. In the short-term full-length dust suppressant will provide a much better surface.
Project 5 CR 68	3	This project has been held over from last season. If timing becomes too tight to place the overlay the recycle could be patched and a Micro Surface applied by the supplier very quickly with minimal involvement from the Public Works Department. This would still provide a suitable driving surface.

CONTINGENCY PROJECT NUMBER 1

CR 102

LENGTH	PROJECT TYPE	COST
2 TO 4 MILES	MAJOR PATCH AND SURFACE RESTORATION	\$ 15,000

DESCRIPTION

This project will include major patch work utilizing the infrared heater and hot box truck. This truck will allow for large seamless patches particularly in areas with severe rutting. By having a propane fired hot box mounted on the truck, asphalt can be kept warm even in cooler weather. The infrared heater allows for the in place asphalt to be re-heated throughout the area. The plan is to utilize this system for patching in various areas this winter. The goal is to start this process in early spring 2023, so that chip seal overlays if deemed necessary could be placed on the top of areas treated with this system.

ESTIMATED QUANTITIES

HOT MIX 100 Tons

REQUIRED EQUIPMENT

GRADER 1
DISTRIBUTOR 1
INFRARED TRUCK 1
ROLLER 1 Rubber Tire
 1 Steel Drum
CHIP SPREADER 1
TRUCKS 4

PERSONNEL REQUIRED

CREW 6

DURATION 15 DAYS

ANTICIPATED START DATE:

2023

CONTINGENCY PROJECT NUMBER 2

CR 18 and COIL

LENGTH	PROJECT TYPE	COST
2.56 MILES	1-PIN CHIP SEAL OVERLAY	\$ 44,127

DESCRIPTION

This project will include the placement of a 1-pin chip seal overlay on CR 18. The 1-pin chip seal overlay will continue on CR 18 from US 285 to the surface change on Coil Drive. The plan is to utilize the new infrared heater and hot box truck to perform patching on these roads in early spring 2023, in anticipation of having the ability to place the 1-pin chip seal overlay.

ESTIMATED QUANTITIES

CHIP AGGREGATE 730 Tons
ROAD OIL 14,420 Gallons
FOG OIL 4,327 Gallons

REQUIRED EQUIPMENT

DISTRIBUTOR 1
INFRARED TRUCK 1
ROLLER 1 Rubber Tire
 1 Steel Drum
CHIP SPREADER 1
TRUCKS 4

PERSONNEL REQUIRED

CREW 8

DURATION 5 DAYS

ANTICIPATED START DATE:

March, 2023

CONTINGENCY PROJECT NUMBER 3

CR 64

LENGTH	PROJECT TYPE	COST
1.5 MILES	DUST SUPPRESENT	\$ 12,000

DESCRIPTION

This project will include the placement of mag chloride at both ends of CR 64 for dust suppression during the summer months. CR 64 may be utilized as a detour route when US 285 is closed. When CR 64 is used as a detour route severe dust arises due to the constant flow of traffic on this normally low volume road way.

ESTIMATED QUANTITIES

MAG CHLORIDE 12,672 Gallons

REQUIRED EQUIPMENT

DISTRIBUTOR 1
GRADER 1
ROLLER 1 Steel Drum
WATER TRUCK 1

PERSONNEL REQUIRED

CREW 4

DURATION 3 DAYS