

APPENDIX

City of Forks Capital Improvement Plan 2020-2026

The Capital Improvement Plan (CIP) is for the period of 2020 through 2026. The update of the CIP will be undertaken annually during the City's budgeting process. This is different from the City's Transportation Improvement Plan, but similar in approach. Where the TIP lists transportation projects for a six year period, the CIP will do that for capital projects for a seven year period.

The following numerical codes used within the following tables explain the funding mechanisms to be utilized in completing these projects.

Funding Sources

- | | |
|---|--|
| 1. General Fund | 5. Improvement District |
| 2. Street Funds | 6. Grants |
| 3. Lodging Tax | 7. Bonds |
| 4. Enterprise Funds (Water, Sewer, FEDSC) | 8. Loans |
| | 9. Other (inc. Capital Improvement Fund) |

In addition, the following is a listing of the facility types covered by this element:

1. Water Systems
2. Sewer Treatment Systems
3. Forks Comprehensive Flood Management Plan related projects
4. City Hall and City Compound Building and Grounds
5. Parks and Recreation
6. Airports, Industrial Park, Mill Holdings, Technology Center, and Transit Center
7. Possible Projects by Other Agencies

Water Systems

	Fund Source	2020	2021	2022	2023	2024	2025	2026
1. Wellhead protection plan	4		25,000					
2. Reservoir North of Calawah River with distribution system	4, 6, 8				100,000	1.3m		
3. Waterline Improvements	4, 6, 8	50,000	50,000	50,000	50,000	50,000	50,000	50,000
5. Water System Plan Update	4	25,000						
Sub-Totals		75,000	75,000	50,000	150,000	1.35m	50,000	50,000

1. Wellhead Protection Plan. Acquisition of easements, where necessary, or establishment of reciprocal agreements with neighboring property owners to establish a wellhead protection plan. Some consulting work may be required. Cost to be paid from the Water fund.
2. Reservoir North of Calawah with Distribution System. This project is listed as a placeholder for the development of a water reservoir (tank) and distribution system for that part of the City and Forks Urban Growth Area located north of the Calawah River. This system, when and if developed, would address any additional water or water pressure needs associated with future industrial park users having such a requirement or demand.
3. Waterline improvements. Water Systems Plan identifies a list of approximately 13 water line distribution upgrades. What is being projected here is an annual average for upgrades rather than each identified project.
4. Water System Plan Update. Update the exiting water system plan. Amount indicated *does not* include a rate study.

NOTE: This entire list will be updated with the projects identified in the adopted revisions to the Water System Plan.

SEWER SYSTEM

	Fund Source	2020	2021	2022	2023	2024	2025	2026
1. Clarifier No. 2	4, 6, 8			915,000				
2. Electrical/Backup Generator	4, 6, 8		320,000					
3. Headworks Improvements	4, 6, & 8			237,000				
4. Air Gap Non-Potable Water System	4, 6, 8, & 9	90,000	70,000					
5. Mill Creek Pump Station	4, 6, 8, & 9	30,000						
6. Aerated Lagoon Improvements	4, 6, 8				520,000			
7. RAS PS Improvements	4, 6, 8				136,000			
8. New Digester 9.	4, 6, 8					814,000		
9. In-Plant Pump Station						80,000		
10. Lab & Maint. Bldg Improv.	4, 6, 8		50,000					
11. Septage Receiving Station	4, 6				2,500	15,000	100,000	
12. Sewer Comp Plan	4,6						45,000	45,000
Subtotal		120,000	440,000	1.152m	658,500	909,000	145,000	45,000

Estimates are based upon the adopted Sewer/Wastewater Facility Plan.

1. Clarifier No. 2. Construction of second clarifier to meet current redundancy standards with the new second clarifier equipped with the necessary conveyance lines, new or upgraded pumps, and installation of new drive bearings in Clarifier No. 1.
2. Electrical/Backup Generator. Installation of a 250kW generator on site, replacing the reliance on a portable 200kW generator, with necessary automatic transfer switches all housed in a sound attenuating enclosure.
3. Headworks Improvements. Undertake the replacement of the existing grinder, which grinds plastics entering the system; installation of additional coarse screens; and, making other necessary improvements needed to ensure compliance with permits.
4. Air Gap Non-Potable Water System. Upgrading system to ensure that there is a physical separation of the water systems at the treatment facility to comply with cross connection regulations. The installed air gap would be within an existing building.
5. Mill Creek Pump Station. Replace the original pump station with new pumps, retrieval systems, and control panel. Such an upgrade would be mandatory prior to any potential addition of the Visitor Center or Museum
6. Aerated Lagoon Improvements. In conjunction with the new digester, installation of a double liner with leak detection system; replacement of the originally installed aerator and mixer with two of each items to be able to address additional increases in loads.

7. RAS PS Improvements. Replacement of the original chopper pump with two submersible pumps to ensure redundancy equipped in such a manner as to allow operator control of the rate of returning sludge to the aerated lagoon; and, installation of a magnetic flow meter.
8. New Digester. Recommendation is to install this in conjunction with aerated lagoon improvements to ensure operations during the installation of the lagoon's new double liner. Two approaches were suggested. One is the installation of a new FKC screw press system that would be of a size to process the proposed expansions discussed in the Facility Plan. This option would require replacing the screw press, as well as installing new sludge holding tanks, feeding pump, polymer system, flocculation tank and boiler skid. Estimated cost is \$920,000 for this option. The second option is to construct a new aerobic digester that would produce Class B biosolids that would then be processed within the existing screw press. This option would create a level of redundancy that is lacking with the Class A screw press system. It is estimated that this option would cost \$814,000 and is the option reflected above.
9. In-Plant Pump Station. Replacement of both in-plant pumps with submersible centrifugal pumps and stalled in such a manner as to aid in retrieval for maintenance and repair. In addition, electrical upgrades would be needed to meet necessary ratings.
10. Lab & Maintenance Building Improvements. Undertake minor modifications and maintenance to include the installation of new counter tops, flooring, fan in bathroom and ventilation in lab room, and heating controls.
11. Septage Receiving Station. Installation of the necessary equipment to permit the treatment facility to take pumped septage from on-site septic systems. This project has been identified over time as a potential additional revenue source if other items were addressed.
12. Sewer Comp Plan. Undertake a planning process to update the Sewer/Wastewater Facility Plan. This update would include a review of existing rate structures, capital facilities and needs.

STORMWATER

	Fund Source	2020	2021	2022	2023	2024	2025	2026
1. Division Street Outfall, Peterson Creek Wetland Rehab and Flood Management	2, 4, 6, 8, & 9	10,000	40,000	50,000	50,000			
2. Palmer Road - NE FUGA Stormwater and Floodwater Management	2, 4, 6, 8, & 9	10,000	15,000	25,000				
3. F Street Culvert Replacement	2, 4, & 6	25,000	25,000	25,000				
4. Problem definition and solution study for Ford Creek Diversion	2, 4, 6, & 8		25,000	50,000				
5. FCMP Plan Update/ Revision	6		60,000					
Sub-Totals		45,000	165,000	150,000	50,000			

Forks Comprehensive Flood Management Plan Inspired Projects

1. Division Street Outfall, Peterson Creek Rehab and Flood Management. Planning and subsequent development of that property into a stormwater treatment and infiltration pond that may include adjacent recreation improvements (pedestrian trail).
2. Palmer Road and NE FUGA: The City acquired property at the end of Palmer Road as part of a joint effort with Clallam County to develop a two acre retainage pond to capture storm and flood water associated with the NE portion of the FUGA. Currently, these waters are channeled along Calawah and Merchant road and have impacted the ability to fully utilize Calawah Way in significant storm events. It is expected that the project will be done predominately by City and County work crews. Estimated costs could be as high as \$50,000 of hard costs depending upon design requirements.
3. F Street Culvert Replacement: This project would continue the removal of culvert blockages on Warner Creek where it runs from Bogachiel Way along F Street. Culverts would be replaced with short span bridges or increased capacity culverts. Funding for this project may include grants, under DOE’s FCAAP program, in addition to monies from the City’s current expense and street funds. Objective is to remove a few culverts every year as funds are available.
4. Problem definition and solution study for Ford Creek Diversion: The project envisioned would be the study of drainage alternatives associated with Ford Creek. The study would require the assistance of an engineering firm to help the City model the various options available, as well as focus on the various regulatory issues associated with each option. The study would then provide a road map of how to proceed. The estimate for the completion of the study is \$75,000. Study completion would be late 2021 or 2022.
5. Plan update: The current Flood Control and Management Plan was adopted by the City in 1997 and the City has systematically utilized the document as a guide to what projects to pursue. It is expected that by 2018, a new plan will be needed to determine what projects and issues remain for the City to address since a decade will have passed between the plan and the proposed update. Estimated cost is \$60,000 and it is expected that most of this will be to develop potential projects beyond the conceptual descriptions found within the first plan.

Building/Grounds

	Fund Source	2020	2021	2022	2023	2024	2025	2026
1. City Hall Window & Gutter Replacement	1, 4, 9	20,000						
2. Correctional Facility Upgrades	1, 4, 9	35,000	15,000		15,000		15,000	
3. ICN Exterior Paint	4	6,000						
4. ICN Refloor	4	2,000	2,000	2,000				
5. Transit Replacement Heat Pumps	4, 9		10,000	10,000				
6. Transit Parking Lot Seal Coat	4, 6	20,000/ 20,000						
7. RAC – Resurface of Great Hall	4	5,000					5,000	
8. City Compound – Vehicle Storage	2, 4, 8 & 9			100,000				
Sub-Totals – costs/in-kind donation		88,000/ 20,000	27,000	112,000	15,000		20,000	

1. Replacement of existing windows for new windows that would reduce heating loss from the building.
2. Correctional Facility Upgrades. Past history indicates that the Correctional Facility will have upgrade requirements/improvements to include as a minimum HVAC, new doors, new or refurbished slider, etc. This is a place holder noting those improvements.
3. ICN Exterior Paint. Repainting of the building’s exterior.
4. ICN Refloor. Replacement of linoleum, common hallway and common room areas.
5. Transit Replacement of Heat Pumps. Repairs have been made to the heating system. Place holder for potential replacement.
6. Transit Parking Lot Seal Coat. Contract to have main travel lanes and most, if not all, of the park and ride parking seal coated.
7. RAC – Repair and refinish wood floor.
8. City Compound. Increased vehicle storage by adding onto the existing building.

Parks & Recreation

	Fund Source	2020	2021	2022	2023	2024	2025	2026
1. Ben Dome Repair & Improvements	1, 6, & 9	5,000/ 5,000	4,000/ 4,000	3,000/ 3,000				
2. Ball Fields Netting Upgrade	1, 6, & 9	2,500/ 2,500						
3. Tillicum Park Bathroom Remodel	1, 3, & 9	1,000	25,000/ 10,000		15,000/ 10,000			
4. Tillicum Park Ballfield Concession Stand Upgrade	1,6, & 9	2,500/ 1,000			25,000			
5. Tillicum Park Land Ownership Resolution	1, 3, 6, & 9			35,000				
6. Tillicum Park Pickle Ball Court	6	115,000						
7. Tillicum Park Arena Bathroom/Announcers Stage	1, 6, & 9		10,000/ 10,000	60,000/ 60,000				
8. Ford Park Improvements	1, 6, & 9			5,000				
9. Tillicum Park Playground Upgrades	1, 6, & 9	5,000	5,000	5,000	5,000	5,000	5,000	5,000
Sub-Totals – costs/in-kind donation		11,000/128,5000	44,000/24,000	108,000/ 63,000	48,000/ 10,000	5,000	5,000	5,000

1. Ben Dome Repair & Improvements. Place holder for possible improvements envisioned by the Forks Lions Club at the Ben Dome that could include such things as utility improvements, barbeque pit, structural improvements, and other amenities that would be of benefit to the community in this building.
2. Ball Field Netting. Install new poles and associated hardware to permit the removal of the ball field netting that hangs over the spectator areas behind the three home plate backstops in the Tillicum Park Ballfields. Undertaking this improvement, allows for a better means of providing protection to spectators in the bleachers while also allowing the valuable netting to be removed and thereby protected from winter storm damage and/or vandalism. Installed poles will be of a structural size to permit the future installation of some lighting as part of Project 7 below. Estimate consists of materials only, with an equal match being provided by community service groups. Total material estimate for \$2,500 with a match of in-kind labor of \$2,500.
3. Tillicum Park Bathroom Remodel. Undertake a complete remodel of the existing park interior bathrooms to ensure compliance with the Americans w Disabilities Act, and install a concrete walkway to the facility from the Ben Dome. Project would be undertaken in two phases. Total material and professional services estimate is \$41,000 with a match of in-kind labor of \$20,000.
4. Tillicum Park Ballfield Concession Stand Upgrade. Improve external water spigots and piping to allow for easier access by maintenance staff for external cleaning and watering of ballfields. Replace existing appliances as needed. Replace or improve swing pass-through counter door as needed. Estimated material and appliance costs to be \$2,500 with in-kind labor estimated \$1,000.
5. Tillicum Park Land Ownership. Current lease with DNR for the Northern ~2.6 acres of the existing ballfields was renewed in 2017. City, service groups, and community organizations will need to develop a long term resolution of the use and/or ownership of this part of Tillicum Park. Estimated cost is given as a range reflecting the continuation of the existing lease to acquisition of the property in fee simple. Estimated Cost is between \$1-\$35,000.
6. Tillicum Park Pickle Ball Court. Utilizing area foundational grant funds (i.e., Lloyd Allen and First Federal) construct pickle ball courts replacing at least one of the basketball/tennis courts at Tillicum Park.
7. Tillicum Park Arena Bathroom/Announcers Stage. Utilizing city funds and community service groups, replace the existing bathroom/announcers stage with a new building if possible, or some means of providing the same facilities for those using the arena.
8. Ford Park. This is kept in the plan as a placeholder to address any potential proposed improvements to this maintained, open space in Fork Park. Estimated costs simply are included as a placeholder.

Airport/Industrial*

	Fund Source	2020	2021	2022	2023	2024	2025	2026
1. UIL Airport Master Plan	4,6,7,8		200,00					
2. UIL Main Hangar South Face Stabilization	4, 6, 8	10,000	15,000	25,000				
3. Joint Airports Hangar Design	4, 6, 8		15,000					
Sub-Totals		10,000	230,000	25,000	0	0	0	

1. UIL Airport Master Plan. FAA would like to have CoF complete an integrated planning document for UIL. Funding would be from the FAA's Airport Improvement Funds. While CoF estimates this to be at \$100,000, depending upon all of the components that the FAA may request for UIL, the costs could be higher.
2. Engineering and Construction of a manufacturing facility at the Forks Industrial Park. Engineer and Construct a general or specific industrial use building for lease to private enterprise. Estimate is based upon preliminary cost estimates for these types of buildings. Depending upon the specific type of building, or if a building is being built to meet the needs of a certain enterprise or industry, the costs may be higher or lower than the estimate noted here. Funding could include state and federal grant programs, state and federal loan programs, city bonds, and/or funds from the FEDSC portion of the budget.
3. Same as No. 2 above.

	2020	2021	2022	2023	2024	2025	2026
Overall Annual totals	487,500	775,000	1,660,000	958,500	2,264,000	220,000	100,000
Non-grant contingent totals	94,000	87,000	15,000	40,000	0	20,000	0
Grant contingent totals	393,500	688,000	1,645,000	918,000	2,264,000	200,000	100,000

**City of Forks
Grand Totals**

