

FY10 CIP PROJECT DESCRIPTIONS			
<u>Department</u>	<u>Division</u>	<u>Priority</u>	<u>Project Description</u>
<u>Administration</u>	Manager's Office	1	<u>PRISM - Core Financial System Replacement Lease</u> – This project is to replace the CBJ’s aged financial and billing systems, the assessor’s appraisal system, and the human resources and payroll systems with an integrated and more functional system. Funding is for software, hardware, and professional services.
	Lands & Resources	1	<u>Lemon Creek Subdivision Improvements</u> – Lands office is in the process of retaining appraisal services to guide future subdivision and development scenarios. Based on the outcome, more or less funding may be required prior to a municipal land sale.
		2	<u>Pederson Hill Access and Development Plan</u> – This project will identify access and utility corridors and develop subdivision and construction phasing scenarios for the Pederson Hill area.
		3	<u>Lemon Flats Second Access Right-of-Way</u> – This project is to resolve the safety and congestion concerns associated with the existing access at Anka Street and Glacier Highway.
	MIS	1	<u>IT Server Room Fire Suppression System</u> – There is no fire suppression system in the City Hall server room. The replacement costs of the servers, peripheral equipment, and networking equipment is approximately \$300,000. In the event of a serious fire, because redundant equipment is not available elsewhere in the CBJ, it would be at least one month before all services could be restored. O&M: \$500 annually
<u>Airport</u>		1	<u>JIA Terminal Renovation</u> - This project consists of renovation and expansion of the Juneau International Airport terminal. Work includes a two-story addition plus mechanical penthouse, and interior renovation. The work shall be conducted in five phases.
		2	<u>Runway Safety Area Mitigation</u> – Payments per 2007 Federal Environmental Impact Statement/Record of Decision.
		3	<u>Safety Area Dirt Work</u> – Per 2007 FEIS/ROPD. Dirt work for RSA. Pavement, electrical and drainage in future FY.
		4	<u>Construct Snow Removal Equipment Shop</u> – Needed for inside storage for SRE per FAA Advisory Circulator & extend useful life of SRE.
		5	<u>Complete SWPPP/SPCC/Concession DBE/COOP and Planning Study</u> – Documents required/recommended by different Federal Agencies.
<u>Bartlett Regional Hospital</u>		1	<u>3rd Floor Patient Rooms/Same Day Care Unit Remodel</u> - Abatement and renovation of remaining Med/Surg rooms (part of original work in Project 2005 which was cut due to costs) and remodel of Same Day Care areas to increase capacity and improve flow for staff and patients.

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		2	<u>Parking</u> - Parking has been identified as a Building Permit Condition and need. The long term plan is to remove the building that IS and Construction is in and create about 50 spaces. Some of the building contains asbestos. Design, curb gutter, drainage site preparation and paving is needed.
		3	<u>Landscaping</u> - There is a very small amount of money for the project landscaping which should be used to address ease of access to some critical drains. Design and construction of showpiece and interactive landscaping.
		4	<u>Behavioral Health Building</u> - New building on campus to house new Child & Adolescent Mental Health Unit, and relocated RRC & Bartlett Psychiatrist offices.
		5	<u>64-128 CT Slice Scanner</u> - Number 1 on QHR report was to expand CT services. This should include cardiac screening and virtual colonoscopies.
		6	<u>Siding and Painting</u> - The exterior of the facility needs an upgrade. The exposed rock aggregate in places is falling from the building. We had a solution under the current project, but it was removed to meet budget. The cost could vary greatly - many areas need to be painted, some DRIVIT (EFIS) need to be fixed up. Some solutions involve siding.
		7	<u>Additional Ultrasound Unit</u> - Possibly need another room. Existing file room.
		8	<u>Information Systems - Upgrades & Replacements</u> - Data Repository, Scanning & Archiving, Bedside Medication Verification, Operating Room Management System, Wireless Controller
		9	<u>Laundry Facility</u> - There is a possibility that BRH will no longer be able to contract for laundry service. This facility would add equipment to allow Bartlett to do laundry in-house.
		10	<u>Roofs</u> - Several of the roofs vary in age from 26 to 20 years. We currently have maintained the roofs well and repaired them, but they are at or exceeding expected life. The project needs to replace the roofing on the existing Hospital, Penthouses and the Medical Arts Building. The associated flashing, curbing and expansion joints must be included.
<u>Building Maintenance</u>		1	<u>Deferred Building Maintenance</u> – On-going capital funded project to repair CBJ buildings. Reduce maintenance costs and enhance building components by correcting a backlog of problems that have surfaced from years of neglect.

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<u>Community Development</u>		1	<u>Downtown Historic District Development Design</u> - Funding for this program will be used to hire an architect/design team to produce a conceptual rendering of the downtown historic area. The study area will include the entire downtown and focus on improving vehicle and pedestrian traffic flow, lighting, canopies and general aesthetics. This project will be provided through a private contract administered by the Downtown Business Association.
<u>Docks & Harbors</u>	<u>Docks</u>	1	<u>Cruise Ship Berth Maintenance/Improvements</u> – Funding for this project will help finance cruise ship dock maintenance and improvements in downtown Juneau. Juneau's port infrastructure is currently inadequate to service the number and types of cruise ships making calls and is in need of structural improvements and repairs. This funding will supplement the existing port maintenance fund.
		2	<u>Columbia Lot Staging</u> - Funding for this project would be used to construct a covered staging area on the sidewalk south of the Tram at the Columbia Parking lot. The covered staging area would provide shelter for motor coach passengers to utilize while waiting for their tours and transport.
		3	<u>Shoreside Power</u> - Princess Cruise Line entered into an agreement with AEL&P that allows Princess Cruise Line to purchase hydroelectric power at the South Franklin Dock. Princess Cruise Line paid for the installation of an AEL&P substation, a distribution line to the dock, and alterations to their vessels. This funding goes into a COPA fund which reduces the surcharge to utility customers in Juneau for the use of AEL&P's standby diesel generators.
	<u>Harbors</u>	1	<u>Douglas Harbor Float Replacement</u> – Provide funding to construct the replacement of the Old Douglas Harbor float system with new floats that can accommodate passenger for hire vessels and passengers.
		2	<u>Taku Harbor Improvements</u> – Provide funding for construction of improvements to the Taku Harbor facility. Items include a rubber tire dampening system to protect the floating bridge when tides are low, improvements to mooring floats, and signage.
		3	<u>Amalga Harbor Kayak Ramp Improvements</u> – Provide funding for construction of improvements to the existing kayak launch ramp. The project would incorporate a haul ramp to meet the intent of ADA access requirements and to relieve congestion at the top of the existing ramp.
<u>Eaglecrest</u>		1	<u>Hooter Electrical Conversion</u> – Convert Hooter chairlift to electric drives. The Hooter chairlift was installed in 1977 with direct drive diesel engines. IN the summer of 2008, Eaglecrest will be connected to the AEL&P power grid. To reduce maintenance and operating costs and to provide for amore user friendly operation, Eaglecrest will convert the Hooter lift to electric drive in FY10.

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		2	<u>Lodge Operations – Deck & Ski Shop Roof</u> – Replace exterior surface of the lodge deck and rental shop roof. In the early 1990s, the area below the lodge deck was enclosed and rental lockers placed within the enclosed area. The roof over this enclosed area, the lodge deck, has developed a series of leaks which may reduce the amount of revenue that these lockers produce due to people being unwilling to rent lockers in a damp area. The deck needs to be recoated. At the same time, the extension of the lodge that houses the rental shop needs to have its roof replaced. The roof leaks, sheet rock is falling from the ceiling and the skis and snowboards stored in the rental shop can be damaged from these conditions.
		3	<u>Lift Operations – Lift Shack for Mid-Mountain Lift</u> – The new mid mountain lift has been designed with a small (4’x4’) operator shack at the top of the lift. In times when this is the only lift open (during times of low snow conditions), the ski patrol will need to station a patroller at the top of this lift and will need to store needed medical supplies. This money will be used in conjunction with the planned funds for this lift to expand then designed top shack to serve the needs of the east side of the mountain.
		4	<u>Lodge Operations – Furnace</u> – Replace boiler with new, more efficient unit. The furnace located in the south end of the lodge is over 25 years old. In order to reduce operating costs this older model must be replaced. In addition, a unit of this age has questionable safety characteristics.
		5	<u>Lodge Operations – Restrooms Remodel</u> – Replace flooring, fixtures and walls in northern set of restrooms. The Eaglecrest lodge has two sets of restrooms. The set on the southern side of the lodge were remodeled several years ago. The northern set of restrooms has poor air circulation, the flooring is in poor condition, and the fixtures need to be replaced.
		6	<u>Mountain Operations – Nest Maintenance</u> – Repair or replace existing structure. The original wooden structure was built in the early 1990’s with little regard to the use of materials that could withstand the harsh environment. This project would create a smaller facility for the use of the patrol and storage of related items. The facility would be steel framed with metal siding to withstand the environmental conditions.
		7	<u>Lift Operations – Ptarmigan Shack</u> – Replace existing structure. The top operator shack is the original structure and the harsh environment in which it is located requires its replacement. The new structure would be steel framed with metal siding.
		8	<u>Lift Operations – Lifting Frames</u> – Installation of lifting frames on the Mid Mountain and Ptarmigan chairlifts. In order to do maintenance work on individual lift towers, it is necessary to lift the cable off the tower assemblies. Currently this work is performed by a system of cables and pullies which requires very careful attention to a complex method of maintenance. These lifting frames will allow faster and safer maintenance of tower assemblies. The lifting frames are mounted permanently to each tower and a total of 47 lifting frames are needed.

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<u>Engineering</u>		1	<u>West Juneau-Douglas Highway Access Study</u> - Study solutions to traffic capacity problem at the intersection of Cordova Street and Douglas Highway.
		2	<u>East Valley Drainage</u> - This project will evaluate the options for removing stormwater from the East Mendenhall Valley area. Currently there is significant flooding of residential crawl spaces and roadways from the lack of stormwater conveyance out of the area.
		3	<u>Lemon Creek Rock Quarry</u> – This project was originally proposed as an alternate source for material for the Sunny Point Project. The project has obtained all required permitting and will be developed to serve upcoming public and/or private projects in the Lemon Creek, Downtown and Douglas areas. Once the quarry is developed, it will be a revenue source for the Lands Fund. This project was proposed for FY10 in the FY09-14 CIP process. Project costs have been scaled back to reflect a gradual, phased development plan.
<u>Parks & Rec</u>	<u>Rec Buildings</u>	1	<u>Juneau Douglas City Museum Entry Improvements</u> - This project would expand and create a safer and more attractive approach to the museum for visitors. Specific improvements would include demolition of the existing concrete stairs and a portion of the front retaining wall to open up the approach, the concrete sidewalk will be widened and some utilities relocated, a new rock retaining wall will be added, and better exterior lighting and new sitting benches will be installed.
	<u>Parks/Rec Areas</u>	1	<u>Sports Field Improvements/Repairs</u> - Dimond Park Field #3 field sub-base replacement, soil surface replacement grading and drainage rework.
		2	<u>Park & Playground Repairs</u> - Melvin Park playground equipment replacement, ADA compliant surfacing replacement, drainage work and rain shield above play area to double as ball deflection shield.
		3	<u>Auke Lake Launch Ramp</u> – The Auke Lake Wayside Boat Launch Ramp project will create a boat launch facility with on-site parking, staging, and maneuvering areas.
	<u>Trail Maintenance</u>	1	<u>Treadwell Ditch Trail/Lawson Creek Bridge</u> - Project involves reconstruction of 120 foot span foot bridge over Lawson Creek that would connect a popular portion of the trail subject to wash outs. The present “ravine” crossing is tenuous and dangerous to trail users. Replacement of the foot bridge was one of the most recommended trail improvements at the autumn 2008 public meetings co-sponsored by CBJ, Trail Mix and the USFS.
<u>Public Works</u>	<u>Existing Projects</u>	1	<u>Consolidated Public Works Facility-TAN Repay</u> - New building will be home to the Streets Department, the central location for equipment fleet/maintenance, the Water Utility Division, Public Works Administration offices, and the receiving station for recycling/household hazardous waste.

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		2	<u>Downtown Transportation Center</u> - A 300 to 500 space parking structure and transit facility at the corner of Main and Egan to provide year-round parking for locals and serve the needs of legislators and their staff during winter.
	Capital Transit	1	<u>Bus Shelters</u> - This project involves the construction of a new bus shelter along Old Glacier Highway adjacent to Western Auto and Vanderbilt Creek. The bus stop location is heavily used and currently requires passengers to wait on the shoulder of a very busy collector road. A new bus shelter will require State and Federal permitting to allow construction to encroach into wetlands, either through fill permits for a conventional foundation or for piling with a structural concrete deck, a standard CBJ metal/plex-i-glass shelter kit, and lighting. The new shelter would be located within the State right-of-way and must comply with ADOT/PF's new standards for shelter construction.
	Streets	1	<u>Pavement Management Program</u> – On-going pavement management program to provide chip seal, asphalt overlays, and other preventative maintenance treatments to CBJ streets. Pavement maintenance is required to extend the functional life of the road surfaces an additional 5 to 10 years. The program also provides capital funding to purchase and repair specialized asphalt maintenance equipment and the purchase of necessary materials (oil, aggregates, chemicals) for pavement maintenance. The streets tentatively programmed for FY2010 pavement maintenance work include Lemon Creek Road, Patti Avenue, and Lund Street.
		2	<u>Areawide Snow Storage Facilities Development</u> – Due to water quality impacts, the Alaska Department of Environmental Conservation no longer allows the disposal of hauled snow into water bodies. Disposal of snow in the ocean has been the historical practice by coastal Alaskan communities. This multi-phase project is to develop upland storage sites in the Mendenhall Valley, Lemon Creek, Downtown Juneau, and Douglas. The intent of the program is to have all sites developed and operational within five years. Each site will be designed to collect and treat melt runoff in compliance with Alaska Water Quality Regulations. The first site to be developed is in the Mendenhall Valley at the end of Crazy Horse Drive and is to be designed, permitted, and constructed to also handle contaminated materials for emergency disaster events such as avalanche, landslide, or fire debris. The permitting and design of the Crazy Horse Drive facility was funded with \$20,000 in the Fy2009 CIP titled Valley Snow Storage Permitting.

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		3	<p><u>Gold Creek Flume Repairs</u> – This Gold Creek Flume is a concrete flood control structure that extends from Cope Park through the Casey Shattuck subdivision and the Federal Building/Willoughby Avenue commercial area to just north of the Egan Drive Bridge at Gold Creek. The flume is in need of cleaning of moss and lichen which are known to accelerate the deterioration of the concrete surfaces. In addition, portions of the channel bottom have deteriorated to the point that reinforcing steel has been exposed and must be repaired before significant material failure occurs. Prior long term repairs to portions of the channel have been successfully completed on the upper section near Irwin Street using a high strength concrete surfacing material. Replacement of worn chain link fencing along the flume will also be done under this project. The project extends from Cope Park to the Egan Drive Bridge at Gold Creek.</p>
		4	<p><u>Main Street Improvements - 2nd Street to 7th Street</u> - The project involves replacement of old utilities to reduce operational maintenance costs; separation of storm and sanitary sewer flows in accordance with EPA Clean Water Regulations; replacement of deteriorating road base, asphalt pavement, curb & gutter, and sidewalks, and to improve street lighting. The separation of storm water from the sanitary sewer system reduces the volume of sewer treated at the JDTP, reduces the risk of combined sewer overflow (CSO) events during heavy rain storms, and increases the available capacity of the treatment plant to accommodate future customer growth. The project area extends along Main Street from 2nd Street to 7th Street. This work would be in coordination with the Main Street improvements associated with the new Downtown Transportation Center development as funded in FY2009.</p>
		5	<p><u>Casey Shattuck Subdivision Reconstruction, Phase 5</u> - This project involves the reconstruction of old water and sewer utilities, installation of new storm sewer system, replacement of sidewalks, curb & gutter, road base, pavement, and street lighting. Replacement of old utilities will reduce operational maintenance costs for the City. The separation of storm water from the sanitary sewer system reduces the volume of sewer treated at the JD Treatment Plant, reduces the risk of combined sewer overflow events (CSO) during heavy rain storms, and increases the available capacity of the treatment plant to accommodate future customers. The project area includes West 12th Street from Glacier Avenue to Irwin Street intersection, a portion of Irwin Street to the Gold Creek Bridge, and associated side streets and alleyways.</p>
		6	<p><u>Safe Routes to Schools - Long Run Drive Sidewalk</u> - This project involves construction of sidewalks and associated drainage improvements along Long Run Drive and portions of McGinnis Drive. The project purpose is to promote safe pedestrian routes to schools. This is a centrally located pedestrian route extending across East Mendenhall Valley to Floyd Dryden Middle School. The project area extends along Long Run Drive from Richards Drive to the Mendenhall Loop Road.</p>

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		7	<p><u>Montana Creek Road Closure & Parking Lot Development (Design)</u> - This project involves abandoning approximately one half mile of Montana Creek Road beyond the Outdoor Juneau Rifle Range and the development of a larger parking lot to provide for recreational users of the area. This stretch of road has become a waste dump threatening uplands and the Montana Creek fisheries, and is a difficult area to police due to its remoteness. Abandoning this portion of road will reduce summer maintenance costs for garbage cleanup, road surface and drainage repairs, habitat damage by off-road vehicles, and major future capital costs for roadway reconstruction. The existing roadway will be reduced in width and used as recreational access to the archery range as well as the Montana Creek to Windfall Lake trail head. The project area extends from the Outdoor Juneau Shooting Range to the foot bridge over Montana Creek.</p>
		8	<p><u>Mendenhall Riverbank Stabilization Project - Riverside Drive at Melvin Park</u> - This project involves removal of deteriorated car bodies buried in the Mendenhall River bank along Riverside Drive adjacent to Melvin Park. The car bodies were placed in the river many years ago for bank protection but have deteriorated to the point that the river is again eroding and stabilization is required to protect the adjacent street and utilities. The stabilization plan was developed by the CBJ consultants, Inter-Fluve Inc., in 1998 and the work includes the placement of natural energy absorption measures such as tree root wads, boulders, and other natural bank stabilization measures. This project will seek grant participation from the Juneau Watershed Partnership and the U.S. Fish and Wildlife Agency.</p>
		9	<p><u>West Juneau/Douglas Storm Drainage Improvements</u> - This project involves permitting, design, and construction of storm drainage improvements to both surface and underground infrastructure to reduce the impacts from seasonal flooding and ground water damage to private and public property. Specific projects include replacement of major stream culvers and storm sewer piping in the vicinity of Cordova Avenue, Nowell Avenue, Foster Avenue, Fairbanks Streets and downtown Douglas. Failure to repair or replace failing culverts and storm sewer piping may result in significant damage to roadways and adjacent private properties. This is partial funding required for this capital improvement project.</p>
		10	<p><u>Areawide Street Light LED Upgrade Program</u> - This project involves installation of LED street lights throughout the borough on CBJ maintained streets. The LED street light technology has developed to the point where bulb reliability and lower energy use makes it feasible to switch out the current high-pressure sodium light currently being used. The first series of lights to be replaced are those that are on independent metered circuits so that energy savings can be assessed for their use in Juneau. May of the communities street lights are owned by AEL&P and are unmetered. These lights are paid for on a flat fee to cover energy costs and maintenance and replacement of the laminar. CBJ will need to work with AEL&P in upgrading these fixtures and to renegotiate the annual fee paid by CBJ for each light.</p>

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		11	Wood Duck Avenue Improvements - This project includes reconstruction of street base and asphalt pavement; storm drainage, water and sewer system improvements; new curb and gutter, sidewalk, and street light enhancements.
	Wastewater Utility	1	JD Treatment Plant Aeration Basin Repairs & Improvements, Phase 1 - This multi-phase project involves major maintenance repair to the aeration basins at the JD Treatment Plant (JDTP). The work includes cleaning of sand and grit accumulation within the basin, repair of structural concrete surfaces, replacement and reconfiguration of influent and effluent piping, enhancements to the aeration system, electrical and mechanical control systems, and structural repairs and modifications to the aeration buildings. Each phase will involve a single basin and the work will be divided into two phases to permit uninterrupted sewage treatment operations. The two JDTP aeration basins have been in continuous operation for 30 years without receiving any major maintenance. Sediment accumulation in each basin has limited the facility's total treatment capacity. Aging system components require increased emergency maintenance repairs resulting in higher operational costs.
		2	MW Treatment Plant Major Mechanical & Control Panels - This project involves engineering assessment and design, equipment purchase, and installation of 8 dissolved oxygen probes in the sequence batch reactor (SBR) tanks, replacement of the FE-07 effluent meter, and the replacement of the chiller unit and motor control center (MCC) room cabinet coolers. These critical components of the MW Treatment Plant (MWTP) have exceeded their useful operational life and are need of replacement. Continued use of old parts and equipment increase the risk of treatment failure and violation of the ADEC wastewater operating permits.
		3	Twin Lakes Pump Station Improvements (Construction Phase) - This project involves the replacement of the old existing above ground sewer pumps with new submersible units, installation of a new higher capacity wet-well system, an improved backup generator system, and new SCADA monitoring control system. Design work was funded in FY2008. Improvements to the pump station will increase the system capacity and reduce the risk of system back-ups in this sensitive and critical portion of the wastewater collection system. The project will provide the rehabilitation of a nearly 35-year old pump station. This pump station serves all properties from Vanderbilt Hill to Salmon Creek, including Bartlett Hospital. FY2008 Sewer Fund appropriation = \$50,000 for design. This project was submitted as a FY2010 ADEC grant request.

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		4	<p><u>Biosolids Minimizations, Handling, & Disposal Assessment</u> - This project involves contracting for consultant engineering services to assess the Wastewater Utility's operational systems and to conduct an engineering costs/benefit analysis of implementing alternative technologies in minimizing, handling, and disposal of sludge produced in CBJ's wastewater treatment plants. With the existing incinerator reaching the end of its operational life and the community looking at a significant capital investment to replace the incinerator, the utility must first consider all reasonable technical and operational options for reducing the volumes of sludge produced, handled, and disposed of. This analysis will consider new technologies in sludge drying, thickening, and biological processes.</p>
		5	<p><u>Juneau-Douglas Major Incinerator Repairs & Replacement (Pre-Design)</u> - This project involves major repairs to the JDTP incinerator and the preliminary engineering design and cost estimating for replacement of the aged incinerator. The existing incinerator has approximately 3-years of operational life left (per Infilco inspection) and the utility is assessing the most efficient and economical approach to replacing the community's sludge disposal system. Major repairs to the existing incinerator is expected to extend the units operational life a few years by repairing the steel containment vessel, fire bricks, sand bedding, fuel system, sludge feed systems, monitoring system, and exhaust system. These measures are to give the utility more time for funding and constructing the new incinerator. High salt content in the JD sludge has resulted in accelerated corrosion of the existing incinerator shell and exhaust systems. The exhaust heat exchanger was replaced on the incinerator in 2003 due to excessive corrosion of the internal piping. The JDTP incinerator is the only sludge disposal process used by the CBJ and its continued service is critical to the utility. Current budgetary cost estimates for replacement of the existing incinerator is in the range of \$14 to \$18 million.</p>
		6	<p><u>Main Street Improvements - 2nd Street to 7th Street</u> - The project involves replacement of old utilities to reduce operational maintenance costs; separation of storm and sanitary sewer flows in accordance with EPA Clean Water Regulations; replacement of deteriorating road base, asphalt pavement, curb & gutter, and sidewalks, and to improve street lighting. The separation of storm water from the sanitary sewer system reduces the volume of sewer treated at the JDTP, reduces the risk of combined sewer overflow (CSO) events during heavy rain storms, and increases the available capacity of the treatment plant to accommodate future customer growth. The project area extends along Main Street from 2nd Street to 7th Street. This work would be in coordination with the Main Street improvements associated with the new Downtown Transportation Center development as funded in FY2009.</p>

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		7	<p><u>Casey Shattuck Subdivision Reconstruction, Phase 5</u> - This project involves the reconstruction of old water and sewer utilities, installation of new storm sewer system, replacement of sidewalks, curb & gutter, road base, pavement, and street lighting. Replacement of old utilities will reduce operational maintenance costs for the City. The separation of storm water from the sanitary sewer system reduces the volume of sewer treated at the JD Treatment Plant, reduces the risk of combined sewer overflow events (CSO) during heavy rain storms, and increases the available capacity of the treatment plant to accommodate future customers. The project area includes West 12th Street from Glacier Avenue to Irwin Street intersection, a portion of Irwin Street to the Gold Creek Bridge, and associated side streets and alleyways.</p>
		8	<p><u>Berners Avenue Improvements</u> - This project involves reconstruction of the road base, asphalt pavement, storm drainage improvements, utility repairs and replacement, a new sidewalk with curb & gutter, and enhanced street lighting. The water system improvements include replacement of valve boxes and adjustment to final pavement grade. The sewer system improvements include replacement of failing manholes, sewer main, and service laterals. The existing roadway driving surface is in poor condition, utilities are old and in need of repairs and replacement, and increased pedestrian use of the roadway supports sidewalk and street light improvements. The project area extends along Berners Avenue from Radcliffe Road to Old Glacier Highway.</p>
	Water Utility	1	<p><u>Reservoir Painting and Repairs</u> - This project includes site clearing and grading, minor reservoir foundation repairs, sand blasting and preparation of steel tank surfaces, and painting of two reservoirs annually. Juneau's reservoir system is inspected on 6-year interval and repairs are identified for ongoing reservoir maintenance. The last inspection report was prepared in 2002 and completion of deferred maintenance is required to ensure the reliability of the reservoir system.</p>
		2	<p><u>Water Utility Shop & Office EEO Improvements</u> - This project involves remodeling of the Lemon Creek building to provide additional administrative office space, public meeting space, archive and equipment storage, and separate locker rooms and shower facilities for male and female employees. Current Water Utility shop does not comply with Federal EEO requirements for employee accommodations. The project was originally funded in FY2002 but postponed due to the consideration of relocating the Water Utility operations as part of a Public Works Department Consolidation Study. Water Utility relocation was determined not cost effective and improvements to the existing facility are again being programmed.</p>

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		3	<p><u>Last Chance Basin Well Field Improvements (Construction Phase)</u> - This project involves well field improvements to increase water production, including repairs and major maintenance to well casings, screens, pumps, valves, electrical, mechanical, and control systems, and treatment equipment. The project may involve the construction of a 1.0 mg reservoir, a new well & pump facility to provide increased production capacity, and improvements to the Mill Tunnel Reservoir including pipe and bulkhead repairs and site improvements to both tunnel portals. The capital infrastructure work is needed for the utility to continue to meet the community's water demand for domestic and commercial potable water and fire suppression flows. The well field has experienced a decrease in production capacity due to the age of the well screens and is in need of major maintenance rehabilitation. This work is required for the Utility to continue to meet the high seasonal cruise ship demand for water. Design funding for this project was appropriated in FY2009 at \$150,000 from the Water Fund.</p>
		4	<p><u>Salmon Creek Secondary Disinfection (Design)</u> - This project involves the design of a secondary disinfection process at Salmon Creek for compliance with recent EPA Clean Water Act Regulations. The project will include assessment of levels of disinfection required, facility design and preparation of construction ready bid documents. The National Primary Drinking Water Regulations - Long Term 2 Enhanced Surface Water Treatment Rule requires secondary disinfection treatment for inactivation of cryptosporidium bacteria in potable water systems using surface water sources such as the Salmon Creek Reservoir. These secondary disinfection treatment systems must be in operation no later than 2012.</p>
		5	<p><u>Casey Shattuck Subdivision Reconstruction, Phase 5</u> - This project involves the reconstruction of old water and sewer utilities, installation of new storm sewer system, replacement of sidewalks, curb & gutter, road base, pavement, and street lighting. Replacement of old utilities will reduce operational maintenance costs for the City. The separation of storm water from the sanitary sewer system reduces the volume of sewer treated at the JD Treatment Plant, reduces the risk of combined sewer overflow events (CSO) during heavy rain storms, and increases the available capacity of the treatment plant to accommodate future customers. The project area includes West 12th Street from Glacier Avenue to Irwin Street intersection, a portion of Irwin Street to the Gold Creek Bridge, and associated side streets and alleyways.</p>
		6	<p><u>Berners Avenue Improvements</u> - This project involves reconstruction of the road base, asphalt pavement, storm drainage improvements, utility repairs and replacement, a new sidewalk with curb & gutter, and enhanced street lighting. The water system improvements include replacement of valve boxes and adjustment to final pavement grade. The sewer system improvements include replacement of failing manholes, sewer main, and service laterals. The existing roadway driving surface is in poor condition, utilities are old and in need of repairs and replacement, and increased pedestrian use of the roadway supports sidewalk and street light improvements. The project area extends along Berners Avenue from Radcliffe Road to Old Glacier Highway.</p>

FY10 CIP PROJECT DESCRIPTIONS

<u>Department</u>	<u>Division</u>	<u>Priority</u>	<u>Project Description</u>
		7	<u>Bear Creek Access Road, Storm Drainage, & Dam Improvements</u> - This project involves repairing the access road from Fifth Street Douglas up to the Bear Creek Dam including regarding, ditching, cross culvert replacement, bank erosion repair and stabilization, and placement of a new drive surfacing. Improvements to the dam involve manufacturing and installing a vertical aluminum bar grate structure to prevent gravel/boulder materials from flowing into and clogging the dam's outflow pipe. While the dam no longer retains water, it is still structurally sound and is permitted through the Alaska Department of Natural Resources.