

**ASSEMBLY STANDING COMMITTEE
PUBLIC WORKS AND FACILITIES COMMITTEE
THE CITY AND BOROUGH OF JUNEAU, ALASKA**

January 8, 2018 12:00 PM
Municipal Building - Assembly Chambers

I. CALL TO ORDER

II. APPROVAL OF MINUTES

- A. November 20, 2017 - Regular Meeting
- B. December 4, 2017 - Regular Meeting

III. PUBLIC PARTICIPATION on NON-AGENDA ITEMS

IV. ITEMS FOR ACTION

- A. FY19 to FY24 Sales Tax Project Funding Schedule
- B. Electric Vehicle Charger Infrastructure & Management
- C. CIP Transfers and Closeouts

V. INFORMATION ITEMS

- A. City Shop Vehicle Wash Bay - Update and Funding
- B. Transit Update
- C. FY19 Capital Improvement Plan Schedule

VI. CONTRACTS DIVISION ACTIVITY REPORT

- A. November 30, 2017 to January 3, 2018

VII. ADJOURNMENT

ADA accommodations available upon request: Please contact the Clerk's office 72 hours prior to any meeting so arrangements can be made to have a sign language interpreter present or an audiotape containing the Assembly's agenda made available. The Clerk's office telephone number is 586-5278, TDD 586-5351, e-mail: city.clerk@juneau.org

DRAFT
PUBLIC WORKS & FACILITIES COMMITTEE
Regular Meeting – November 20, 2017
12:15 PM – City Hall Assembly Chambers – moved to Rm 224
MINUTES

I. ROLL CALL

Meeting was called to order at 12:15 p.m.

Members Present: Loren Jones (Chair), Ms. Gladziszewski, Ms. Weldon (By Phone), Mr. Gregory (By Phone)

Staff Present: Roger Healy, Tina Brown, Greg Smith, John Bohan, Michele Elfers, Beth McKibben, Patty Wahto, Bob Bartholomew, David Means

II. APPROVAL OF AGENDA

Approved

III. APPROVAL OF MINUTES

A. September 18, 2017 – Regular Meeting – Approved

B. October 23, 2017 – Regular Meeting - Approved

IV. PUBLIC PARTICIPATION ON NON-AGENDA ITEMS

None.

V. ITEMS FOR ACTION

A. Snow Removal Equipment Building 1b-Supplemental Agreement

Mr. Healy discussed the Snow Removal Equipment Building 1b-Supplemental Agreement as explained in the memo from Catherine Fritz, dated November 15, 2017 and elaborated as to why the Airport is pursuing an agreement F & W Construction, the current contractor for the current phase of the Snow Removal Equipment Building. Mr. Healy had one correction concerning the Supplemental Agreement policy on Page 2: It should read anything above \$250,000 must be approved by the Assembly.

Ms. Gladziszewski moved to forward the request Snow Removal Equipment Building 1b-Supplemental Agreement the Full Assembly.

No objections. Motion passed.

B. Proposed Schedule-Proposition One – 1% Sales Tax Distribution

Mr. Healy pointed out that now that the Proposition 1 has passed there is an anticipated collection of Sales Tax over the next 5 years beginning FY 19. What comes up on all the 1% proposals is a schedule of proposed expenditures. Provided in the memo is Staff's recommendations on how the funds are to get distributed over the time frame from the existing FY18 funds to FY24. A general philosophy is that a lot of the building maintenance and recurring type expenditures, such as IT infrastructures upgrades, building maintenance for JDHS, TMS, DZ and the existing CBJ owned buildings, funds to be distributed in a uniformed fashion. Once PWFC has reviewed the list of projects it will be forward to the Finance Committee.

Ms. Gladziszewski moved to forward Staff's recommendations for the 1% Sales Tax Distribution to the Finance Committee.

No objections. Motion passed.

C. Maier Drive Sewer Forcemain Insurance Funds Appropriation

Mr. Healy discussed CBJ receiving the initial funding for insurance in the amount of \$400,000 to begin the replacement of the failed Maier Drive sewer forcemain that need to be appropriated in the existing CIP created for this project. Additional funds will be available as needed.

Discussion ensued.

Ms. Gladziszewski moved to forward the request for an appropriation of \$400,000 of insurance money into the existing CIP for the Maier Drive Sewer Forcemain Repair to the full Assembly for approval.

No objections. Motion passed.

VI. INFORMATION ITEMS

A. Seawalk Planning Update

Ms. Elfers provided an update on the Seawalk sections. Since 2012 CBJ has been working on multiple Seawalk sections at one time. She gave an update on each section. On the southern end, from Franklin Dock down to the AJ Dock, CBJ is in a master planning phase, working with Crowley who is the largest property owner for this section, as well as Franklin Dock Enterprises that owns from Franklin Dock and property almost to the AML lot. There is also a small section of CBJ owned land. There is no guarantee that we will receive easements from the landowners in this section. The idea is to work through some of the property owners concerns or issues that they might have and figure out how we could get a route through the properties and hopefully go to design and then construction. The next section to be considered after the southern end will be Marine Park to Gold Belt property. Ms. Elfers stated that this section has been a

piece that CBJ has worked on since 2007; it is a very complicated section. There is a private land at Merchants Wharf which has changed in terms of the ownership group in the last few years. We have concept plans that have been around for almost 10 years on this property. Recently, CBJ updated an appraisal for tidelands in this section that CBJ would need to buy between Marine Park and Merchants Wharf tidelands. Ms. Elfers said that we have sent the updated appraisal to the property owners and are waiting for their response; they need to make some big decisions prior to us to figuring out the easements and land sales. The next section would be the Subport property. Over the past two years CBJ has been working with the group that has proposed the Juneau Ocean Center on a basic route. CBJ has been following and has participated in their planning sessions for the property. Right now there is some discussion with the Alaska Mental Health Trust and some private property owners for this land. We are waiting to see what comes out of the discussions and see what the future of this land will be and continue discussions and planning for this section. The most Northern Section Gold Creek to the Bridge will be completed May 15, 2018.

Discussion ensued.

B. Proposed School District Projects for FY 18

Mr. Healy discussed School District management's recommendations on the proposed projects they anticipate to be working on for the coming year.

Discussion ensued.

C. Planning Commission CIP Recommendation, 2018-2024

Mr. Healy discussed the red folder item on the Planning Commission CIP Recommendation, 2018 - 2024. The Planning Commission is tasked with reviewing and recommending to the Assembly whether to approve the Borough's six-year Capital Improvements Program (CIP). The Planning Commission, CDD and Engineering Department have been trying to make their review more fruitful.

VII. **CONTRACTS DIVISION ACTIVITY REPORT**

Mr. Healy mentioned to the PWFC that the Pedersen Hill Subdivision was bid on December 16th and the low bidder Coogan Construction at 2.5 Million.

VIII. **ADJOURNMENT – The next meeting is December 4, 2017. Meeting adjourned at 1:45 PM.**

DRAFT
PUBLIC WORKS & FACILITIES COMMITTEE
Regular Meeting – December 4, 2017
12:00 PM – City Hall Assembly Chambers
MINUTES

I. ROLL CALL

Meeting was called to order at 12:08 p.m.

Members Present: Loren Jones (Chair), Ms. Weldon, Mr. Gregory

Members Absent: Ms. Gladziszewski

Staff Present: Roger Healy, Tina Brown, Greg Smith, John Bohan, Michele Elfers, Rob Steedle, Tom Mattice, Beth McKibben

II. APPROVAL OF AGENDA

Approved.

III. APPROVAL OF MINUTES

None.

IV. PUBLIC PARTICIPATION ON NON-AGENDA ITEMS

Margo Waring of 11308 North Douglas Highway made an appeal on the opportunity to use renewable energy as an example project in the Pederson Hill Subdivision development. Ms. Waring stated that either ground source heat or air source heat pumps would be desirable alternatives to burning fossil fuels since by design, the houses are going to be close to each other and many times there are air inversions in this area. This air will be closer to the surface. There will be more polluted air because fossil fuels do pollute and we will have a greater density of homes which will compound things. If the City requires infrastructure or distributed heat source, or as a requirement of the building of homes with nonpolluting sources of heating, we will be protecting the health of children, the health of the community as a whole and working toward our goals of having a cleaner less greenhouse gas profile that the City has adopted. There are avenues that the City has at their disposal to make these requirements part of the development plan and she hopes that the PWFC will do what it can to ensure that this happens.

Ms. Weldon asked about the cost difference between fuel source heat and the heat pumps.

Ms. Waring said she cannot give an exact figure; it is more expensive than resistance systems. What happens is that a lot of builders in town install electric resistance heat systems because it brings down their costs. Long term costs of air source heat pumps is significantly lower than electric. She does not know the data for ground source heat but she feels that this would be even lower. A system similar to AEL&P's ground source well

field would be the kind of thing that Pederson Hill Subdivision could have, and it would have branch lines going out to homes. She does not know enough about the technology to know how many well fields you would need. These are technical questions that can be answered and should be answered before we leap into repeating our old problems where we have air alerts all the time in the Valley, which isn't just about wood smoke, though this is one of the particular issues, but contributing to this are the byproducts of fossil fuels.

V. ITEMS FOR ACTION

A. Landslide & Snow Avalanche Hazard Mapping Grant Request

Mr. Healy discussed the need to develop and update the City's hazard map for landslides, debris flows and snow avalanches as described in the provided memo.

Mr. Mattice spoke stating the avalanche maps and mass wasting maps are conjoined. CDD is looking at best practices for building in the community. Understanding what land is useable and what land should be avoided is important and our existing maps need to be updated. We have an existing program through FEMA for hazard maps that are primarily flood based maps, but they do additional studies to support the hazard maps. Mass wasting is one of the studies that can be done. This would be considered as an ongoing project to our existing program through FEMA for our hazard maps. We found out that through a similar type of FEMA project with Sitka they were able to fund additional map studies. We checked with FEMA and they said we could still submit this type of grant request for a mapping update under our existing FEMA grant. This is a FEMA grant request with no CBJ matching dollars. The grant is called the Cooperating Technical Partner's Grant. The dollar amount is still being determined.

Mr. Jones asked if on the FEMA flood zones, that once we do the update would there be an impact. Would it lock us into certain development issues? Would it lock people into hazardous insurance or make residences identified areas not insurable? What happens if we update, what is the potential impact?

Mr. Mattice stated that from the FEMA end there are no implications. We made it very clear that our goal is to bring forth this study's findings to the PWFC to determine how to move forward.

Ms. Weldon moved to forward the FEMA Cooperating Technical Partner's Grant funding request for Updating Juneau Borough's Landslide and Snow Avalanche Hazard Mapping the full Assembly.

No objections. Motion passed.

VI. INFORMATION ITEMS

A. Biosolids Update

Mr. Healy discussed the two large complex projects going on in our wastewater world. They are co-joined in ultimate purpose to improve our waste system and one is the

headworks project that is to improve screening capabilities at the Juneau-Douglas and Mendenhall Wastewater Treatment Facilities to make a better product to input into the two plants. Also, the dryer project, which has been previously discussed with the PWFC. It was mentioned that Engineering would like to schedule a walkthrough for this project as well as the Capital Transit bus wash project.

Ms. Sowa spoke on when the screens are installed at the Mendenhall plant that it is a retro fit and that we are trying to fit things into an existing building. These are pretty tall screens, and in order to be able to get the screens to fit we have to reroute a lot of influent piping. For a 10 day period we will be bypassing our fixed wastewater influent system by diverting it directly into the treatment basins. This will take place in April of 2018, which is a drier time of the year and there are lower flows, which helps the plant utilize the temporary system.

Mr. Jones stated that he would like to schedule a walkthrough of the mention facilities after January 1st.

Discussion ensued.

VII. CONTRACTS DIVISION ACTIVITY REPORT

None.

- VIII.** Mr. Jones, stated that at the last Assembly meeting we were referred Ordinance 2017-35 which is the Electric Vehicle Traffic Code. We also passed the Ordinance 2017-06T which is the second of the grants for Diesel Buses. We would like to discuss what would be the FY19 CIP implications if we were to talk about replacing one of the diesel busses with an electric bus, what would be the additional cost. He is making the PWFC aware of this because he would like a good discussion on the two ordinances and we could run over on time.

Ms. Elfers would like to wait to discuss the Ordinance 2017-35 until January 29th. She is still gathering information on this from several sources, and she will be out of town for a few weeks in January.

Mr. Jones would like anything that Ms. Elfers can provide on January 8th.

Ms. Weldon would like to bring back to the PWFC the FY19 to FY24 Sales Tax Project Funding Schedule. She noticed that the funding schedule did not match the priority schedule.

Mr. Jones stated that he will not be at the next Finance Committee meeting on December 13th. He asked Ms. Weldon to make the motion at the December 13th Finance Committee meeting to bring the FY19 to FY24 Sales Tax Project Funding Schedule back to the PWFC and we will review it on the January 8th meeting. Then it will go back to the Finance Committee.

ADJOURNMENT – The next meeting is January 8, 2018. Meeting adjourned at 12:32 PM.



Engineering & Public Works Department

155 South Seward Street

Juneau, Alaska 99801

Phone: 907-586-0800 | Fax: 907-463-2606

DATE: January 8, 2018

TO: Loren Jones, Chair
Assembly PWFC

FROM: Roger Healy, PE, Director
Engineering & Public Works Department

RE: FY19 and FY24 Sales Tax Project Funding Schedule

The FY19 – FY24 1% Sales Tax Funding Schedule forwarded by the PWFC on November 20, 2017 has been requested to return to PWFC for further discussion.

Attached is the proposed schedule and for reference the July 13, 2017 Assembly Finance Committee (AFC) rankings for the CIP Project Ideas. For clarification, some of the dollar values identified on the ranking were changed by AFC during that meeting.

Staff requests the PWFC review the funding schedule and forward to the AFC for consideration.

Preliminary FY19 - FY24 1% Sales Tax Project Funding Schedule
14-Nov-2017

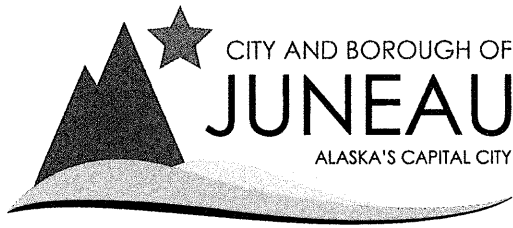
Department	Project & Total Cost	Allocation (Millions)	Prior ST Extension		FY19 - 24		FY20	FY21	FY22	FY23	3 Mo.	
			FY18	FY19	3 Mo.	FY19					FY24	
Public Works	Wastewater Existing Infrastructure Mtnc	13.5			2	2.6	0.5	4	2.4	2		
Parks & Rec	Building Maintenance - CBJ Owned	3.5			0.5	0.7	0.7	0.7	0.7	0.2		
Public Works	Water Existing Infrastructure Mtnc	2				1	1		0			
Airport	Airport FAA Project Match	3	1.8					0.6	0.6			
Parks & Rec	P&R Augustus Brown Pool Deferred Mtnc	5						1.4	3.6			
Parks & Rec	P&R Centennial Hall Upgrade/Deferred Mtnc	4.5				1.7	2.8					
School District	Building Maintenance - JSD Major Mtnc / Match	5			0.8	1	1	1	1	0.2		
Hospital	BRH - Rainforest Recovery Center Upgrades	2.5	0.7		1.8							
Manager	IT - Infrastructure Upgrades	2		0.4	0.4	0.4	0.4	0.4				
Public Works	Waste - RecycleWorks Waste Diversion Program	2	0.6	0.2	0.2	0.4	0.4	0.2	0.4			
Manager	Housing	2			0.4	0.4	0.4	0.4	0.4			
Parks & Rec	Parks	0.5				0.5	1.5					
Harbors	Harbor - Aurora Harbor Rebuild Phase III	1.5										
Totals:		\$47,000,000	3.1	0.6	6.1	8.7	8.7	8.7	8.7	8.7	2.4	
Estimated Available Sales Tax:		47	3.1	0.6	6.1	8.7	8.7	8.7	8.7	8.7	2.4	

City and Borough of Juneau
Preliminary List of 1% Sales Tax CIP Project Ideas FY 19-24
Ranking Tabulation Summary Results from AFC members - 7/10/2017

PROJECT TITLE	FULL REQUEST	RANKING TOTAL	COMMITTEE \$ ALLOCATION
Wastewater Existing Infrastructure Mtn	\$ 18,000,000	96	
Building Maintenance - CBJ Owned	5,000,000	79	
Water Existing Infrastructure Mtn	4,500,000	72	
Airport FAA Project Match	3,000,000	69	
P&R Augustus Brown Pool Deferred Mtn	5,500,000	51	
P&R Centennial Hall Upgrade/Deferred Mtn	8,500,000	50	
Building Maintenance - JSD Major Mtn / Match	3,000,000	45	
BRH - Rainforest Recovery Center Upgrades	2,500,000	41	
Airport Snow Removal Equipment Building (SREB) Phase 1c	5,500,000	32	
P&R Treadwell Ice Arena Roof	1,000,000	31	
IT - Infrastructure Upgrades	2,000,000	25	
Waste - RecycleWorks Waste Diversion Program	2,000,000	22	
Affordable Housing Fund Capital & Existing Grant, Loan, Support Programs	3,000,000	21	
P&R Parks	2,085,000	16	
Harbor - Aurora Harbor Rebuild Phase III	7,000,000	14	
JACC - The New Juneau Arts & Culture Center	5,000,000	10	
Parking - Downtown/Willoughby Area	8,000,000	6	
Harbor - Douglas Harbor Parking and Landscape	2,500,000	4	
Land Fund Capital	3,000,000	4	
Airport Terminal Parking Improvements	3,000,000	3	
Housing - New: Loan, Grant & Redevelopment Programs	1,100,000	3	
Equipment/Fleet Replacement Fund Capital - Emergency Vehicles	3,000,000	2	
P&R Mt Jumbo Gym Deferred Mtn	1,000,000	1	
P&R Trails	2,525,000	1	
Childcare & Development - Best Starts	14,000,000	-	
Waterfront Development Local Contribution/Match	5,000,000	-	
Total	\$ 120,710,000	698	\$ -

Note:

Current estimate of available funding is \$47.0M. (\$3.1M available in FY18; \$0.6M available beginning FY19.)



Engineering & Public Works Department

155 South Seward Street

Juneau, Alaska 99801

Phone: 907-586-0800 | Fax: 907-463-2606

DATE: January 8, 2018

TO: Loren Jones, Chair
Public Works and Facilities Committee

FROM: Michele Elfers, Chief Landscape Architect

SUBJECT: Electric Vehicle Charger Infrastructure and Management

Staff is working on three items related to electric vehicle charger infrastructure and management. This memo provides a brief summary of the ongoing work. More information will be presented at the 1/29/18 Public Works and Facilities Committee meeting on each item.

1. Areawide EV Charging Stations, FY 18 CIP \$25,000. Staff is working with AEL&P and the Juneau Electric Vehicle Association (JEVA) to evaluate locations for chargers in Juneau. Ten to fourteen public and private locations are being studied for cost, ownership, management, and accessibility factors. This information will be presented to JEVA in January for feedback and then brought to the 1/18 meeting. A community idea to provide grants or rebates to private entities interested in installing chargers will also be considered.
2. JEVA plans to donate three Level III charging stations to the community. This donation will be considered in the evaluation detailed in item 1.
3. Management of the public stations for cost recovery, maintenance, and convenience to the public. A permit program with an annual fee has been proposed. Staff is also researching networked EV charger management companies such as ChargePoint and Greenlots to look at benefits and costs to the community.

At the November 27th Regular Assembly Meeting the attached proposed ordinance No. 2017-35 was referred to the PWFC for consideration and referral back to the Assembly for hearing. Staff requests the PWFC to review the proposed ordinance, identify any changes or modifications, and refer the ordinance back to the full Assembly.

Presented by: The Manager
Introduced:
Drafted by: A. G. Mead

ORDINANCE OF THE CITY AND BOROUGH OF JUNEAU, ALASKA

Serial No. 2017-35

An Ordinance Amending the Traffic Code Relating to Electric Vehicles and Providing for a Penalty.

BE IT ENACTED BY THE ASSEMBLY OF THE CITY AND BOROUGH OF JUNEAU, ALASKA:

Section 1. Classification. This ordinance is of a general and permanent nature and shall become a part of the City and Borough of Juneau Municipal Code.

Section 2. Amendment of Table. CBJ 03.30.070 Violations; civil fines, is amended to read:

03.30.070 Violations; civil fines.

(a) Notwithstanding any provision of the CBJ Code to the contrary, the offenses listed in the table below shall be considered violations subject to a civil fine not to exceed that set forth in the table below; payment of the listed civil fine shall be accepted in satisfaction of the violation; and the violation shall be subject to the procedure set forth in CBJ 03.30.075—03.30.085:

CBJ	Type of Violation	Civil Fine
...		
72.14.025	Failure to deposit money	25.00
<u>72.18</u>	<u>Special Permits</u>	

<u>72.18.040(a)</u>	<u>Parking in an electric vehicle charging station without a permit</u>	<u>25.00</u>
<u>72.18.040(e)</u>	<u>Vehicle not actively charging</u>	<u>25.00</u>
<u>72.18.040(f)</u>	<u>Altering, duplicating, or misuse of permit</u>	<u>25.00</u>
...		

Section 3. Amendment of Chapter. Chapter 72.18 Special Permits, is amended

by adding a new section to read:

72.18.040 Electric vehicle charging station permits.

- (a) The manager is authorized to issue official parking permits for active use of municipal electric vehicle charging stations. No person shall park or use a municipal electric vehicle charging station without a valid permit issued under this section.
- (b) Permits issued under this section shall be valid for a period of one year from the date of issuance.
- (c) An application for a permit, on a form provided by the manager, must be submitted to the manager with a non-refundable application fee of \$50.00.
- (d) Permits issued under this section must be affixed to the driver's side rear window.
- (e) Vehicles must be actively charging while parked in an electric vehicle charging station.
- (f) It shall be a violation of this section to alter a permit issued under this section, duplicate a permit, or display the permit on a non-qualifying vehicle.
- (g) Permit holders must comply with all other parking regulations and signage applicable to the parking area when using an electric vehicle charging station.
- (h) It is a violation, subject to a civil fine, to park in an electric vehicle charging station without a valid permit, or to otherwise violate the provisions of this section.

Adopted this _____ day of _____, 2017.

Attest:

Ord. 2017-35


Engineering & Public Works Department

155 South Seward Street

Juneau, Alaska 99801

Phone: 907-586-0800 | Fax: 907-463-2606

DATE: January 3, 2018

TO: Loren Jones, Chair
Public Works and Facilities Committee

FROM: John Bohan, Chief CIP Engineer and Water Superintendent

SUBJECT: CIP Transfers and Closeouts

Staff is in the process of finalizing street reconstruction designs for bidding and construction during the 2018 season. The following transfer and closeout requests are a combination of housekeeping (closing CIPs) and moving funds from almost completed projects to allow for fixing additional needs discovered during the detailed design investigations. The funds being moved will not impact the completion of the projects that are still in progress with the Final Change Order (CO) being prepared.

PROPOSED TRANSFERS AND CLOSEOUTS 1-8-18 PWFC

	Transfer From	Transfer Amount	Balance after Transfer	
R72-053	Eagles Edge	\$76k	\$85k	Final CO in progress will be ready to close soon
R72-104	Lakewood Subdiv	15k	\$0	Close CIP - all work complete
R72-111	Distin/W. 8th St.	100k	\$51k	Final CO in progress will be ready to close soon
R72-113	Scott Drive Imp,	3k	\$0	Close CIP - all work complete
R72-119	Front St. Douglas	105k	\$0	Close CIP - all work complete
R72-125	Aspen Ave	118k	\$0	Close CIP - all work complete
	total transfer amount	\$417k		
	Transfer To			
R72-130	Shaune Dr Imprv-Anka to Barrow	\$217k	\$1,030k	Adding repaving of Charles Way due to need and proximity
R72-131	Birch Lane	\$100k	\$1,600k	Adding replacing very old segment of water system not anticipated
R72-133	D and H St. Douglas	\$100k	\$1,113k	Adding replacing very old segment of water system not anticipated
	total transfer amount	\$417k		

Staff requests the above transfers be forwarded to the full Assembly for approval.



Engineering & Public Works Department

155 South Seward Street

Juneau, Alaska 99801

Phone: 907-586-0800 | Fax: 907-463-2606

DATE: January 8, 2018

TO: Loren Jones, Chair
Assembly PWFC

FROM: Roger Healy, PE, Director
Engineering & Public Works Department

RE: City Shop Vehicle Wash Bay – Update and Funding

The original needs assessment for the new Combined Streets and Fleet Facility at 7-Mile identified a vehicle wash bay and de-muck facility. In the FY17 and FY18 CIP, \$1,050,000 was allocated to this facility.

In proceeding through schematic design, it has been determined that the initial funding allocation is far too low. The current estimate for construction only is \$1.6 million. With project costs including final consultant design, consultant inspection, special inspections, CBJ management costs, and contingencies, total project need is approximately \$2.2 million. An additional \$1.15 million is needed to complete the facility. At this time, the FY19 CIP will propose full funding of the facility.

The facility as currently designed is largely a manual washing operation with low and high pressure wands operated by hand. For large vehicles, catwalks along the sides of the facility will allow personnel to wash the tops of vehicles. This facility will greatly improve our environmental footprint in the area by directing all vehicle wash water to appropriate treatment facilities and improve CBJ vehicle longevity by reducing road chemical corrosion.

Ed Foster, Streets and Transit Superintendent, will be available for questions.

**CBJ Demuck and Vehicle Wash Addition
CBJ No. E17-235
Juneau, Alaska**

**Construction Cost Estimate
Schematic Design Submittal
September 18, 2017**

ESTIMATIONS
1225 E. International Airport Road, Suite 205
Anchorage, Alaska 99518
907.561.0790

Prepared for:
PDC Engineers Inc.
6205 Glacier Highway
Juneau, Alaska 99801
907.780.6060

CBJ Demuck and Vehicle Wash Addition
CBJ No. E17-235
Prepared for PDC Engineers Inc. by Estimations

Construction Cost Estimate
Schematic Design Submittal
September 18, 2017

Documents Damage Assessment and Schematic Design Narrative Report Drawings	Notes and Assumptions 1 Based on 2017 procurement/2017 construction. 2 Labor rates based on Davis Bacon, 50 hours/week. 3 Assumes open competitive bid procurement. 4 Materials storage area will be designated near the building. 5 Local contractor.

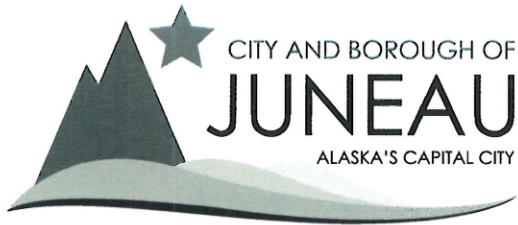
Notes on the Estimate

CBJ Demuck and Vehicle Wash Addition
CBJ No. E17-235
Prepared for PDC Engineers Inc. by Estimations

Construction Cost Estimate
Schematic Design Submittal
September 18, 2017

Description	Estimated Cost	Estimated Cost Plus Contingency & Escalation	Div.
Basic Bid			
01 - GENERAL REQUIREMENTS	\$232,227	\$259,689	1
02 - EXISTING CONDITIONS	\$36,239	\$40,525	2
03 - CONCRETE	\$104,228	\$116,554	3
05 - METALS	\$90,201	\$100,868	5
07 - THERMAL & MOISTURE PROTECTION	\$140,877	\$157,537	7
08 - OPENINGS	\$34,708	\$38,812	8
09 - FINISHES	\$32,096	\$35,892	9
10 - SPECIALTIES	\$1,213	\$1,356	10
11 - EQUIPMENT	\$264,957	\$296,290	11
13 - SPECIAL CONSTRUCTION	\$134,117	\$149,977	13
21 - FIRE SUPPRESSION	\$23,582	\$26,371	21
22 - PLUMBING	\$99,194	\$110,924	22
23 - HVAC	\$80,728	\$90,275	23
26 - ELECTRICAL	\$112,557	\$125,868	26
27 - COMMUNICATIONS	\$3,294	\$3,684	27
28 - ELECTRONIC SAFETY & SECURITY	\$21,093	\$23,587	28
31 - EARTHWORK	\$26,082	\$29,166	31
32 - EXTERIOR IMPROVEMENTS	\$3,185	\$3,562	32
33 - UTILITIES	\$8,241	\$9,216	33
Total Estimated Cost - Basic Bid:	\$1,448,819	\$1,620,153	<<<<<<

Estimating Contingency: 10.0%
Escalation For Inflation: 8 Mths @ 2.5% 1.7%



Engineering & Public Works Department

155 South Seward Street

Juneau, Alaska 99801

Phone: 907-586-0800 | Fax: 907-463-2606

DATE: January 8, 2018

TO: Loren Jones, Chair
Assembly PWFC

FROM: Roger Healy, PE, Director
Engineering & Public Works Department

RE: Transit Update

Capital Transit continues to provide great transit service to CBJ residents and visitors. Below are some recent developments at Capital Transit.

Fleet Upgrades

In the November 27, 2017 Regular CBJ Assembly meeting, Ordinances 2017-06(S) and 2017-06(T) authorized the funding for replacement of Capital Transit vehicles, as follows:

Ordinance No. 2017-06(S):

- Three new diesel replacement busses.

Ordinance No. 2017-06(T):

- Three all-electric vehicles (Chevy Bolts) to replace gas powered vehicles;
- Eight new Caravan (cutaway) vehicles;
- Three new diesel replacement busses;
- Supplemental funding (~\$350,000) to partially fund an all-electric Proterra 35-foot bus. Additional funding supplied by the Lo-No Grant received from Alaska Department of Transportation and Public Facilities/Federal Transit Administration.

Ordinance yet to be introduced:

- Appropriation of \$408,000 Lo-No Grant for partial funding of one electric bus and supporting infrastructure.

Beyond the purchases/ordinances outlined above, Capital Transit's next anticipated replacement schedule for busses is in FY2022, when seven 35-foot busses will be eligible for replacement. Due to state funding limitations, the replacement is likely to be stretched over two or possible three fiscal years. Typically, busses need to be ordered at least 18 months prior to delivery. Thus, grant applications, appropriating ordinances, and local match (20%) funding should be in place by 2020. More opportunities for Lo-No grants may present better funding opportunities for electric busses at that time.

Electric Busses

As identified in the October 23, 2017 PWFC meeting the CBJ was successful in receiving a \$408,000 'Lo-No' grant through ADOT&PF/FTA for the partial funding of an electric bus and supporting infrastructure. The CBJ is proceeding with electric bus purchase and acquisitions similar to other smaller communities in the Pacific Northwest: with Lo-No grant assistance that has a favorable local match rate (15% versus 20%), incrementally replacing their hybrid or diesel busses, and evaluating the live-cycle costs of electric busses versus hybrid/diesel busses. Several communities are starting the procurement process now and expect delivery in approximately 18 months.

Comparing life-cycle costs for electric versus diesel busses is an evolving science due to the lack of long term baseline information on electric busses. The California Air Resources Board and Columbia University have conducted several literature searches and research studies that provide the best information available and identify the lack of comprehensive information necessary for accurate comparisons.

Simple evaluation of life-cycle costs between electric and diesel busses should evaluate: initial capital costs; maintenance costs; and operational costs. Concerning capital costs, the electric bus costs approximately \$400,000 more than a comparable diesel bus, not including the electrical infrastructure needed to charge.¹ Using the New York Transit's study from Columbia University comparison, the overall hard costs of electric versus diesel over the projected 12-year life span is about equal: \$1,280,000 for electric versus \$1,348,000 for diesel.²

CARB has done extensive literature review on different fuel/energy systems for transit busses. In general comparison, their research identifies cost savings in maintenance and operations of electric busses at between \$.19 and \$.25 per mile over the life of the busses. Using the higher number, an operational/maintenance savings of ~\$150,000 over the 600,000 mile life of the bus would not overcome the ~\$400,000 capital cost difference, however if the CBJ just considered their 20% match as the capital cost, then an overall savings of \$80,000 over the life of the bus could be postulated.³

In summary, the life cycle costing of electric versus diesel busses is an evolving subject, with hard costs relatively equal. Other considerations not included in this basic analysis are training costs, other infrastructure costs (one electric bus type needs both a standard charge and then a quick charge every 40 miles or so), environmental costs, and evolving battery technology. The new electric bus that will be added to Capital Transit's fleet

¹ Electric Bus costs - \$788,000; Diesel Bus Costs - \$390,000. An additional \$80,000 is required for electrical infrastructure for charging.

² NYC's study evaluated comparative costs based on a \$300,000 capital cost difference and using \$4/gal price for diesel. Juneau's diesel prices are currently around \$3.10/gallon and our capital difference is \$398,000..
<http://www.columbia.edu/~ja3041/Electric%20Bus%20Analysis%20for%20NYC%20Transit%20by%20J%20Aber%20Columbia%20University%20-%20May%202016.pdf>

³ CARB's literature review. https://www.arb.ca.gov/msprog/bus/maintenance_cost.pdf

around mid-2019 will provide the opportunity to identify if these busses are applicable to all routes and evaluate their maintenance and operational costs.

In looking forward to the FY2022 bus replacement schedule, under current pricing and assuming a 20% match rate for both bus types, the match requirement increase for seven electric busses would be approximately \$80,000 per bus, or total \$560,000 more match required than for a comparable diesel bus purchase. This major step in the transformation of our transit fleet would require roughly an additional \$1M for new electrical service, charging stations, and wiring.

Valley Transit Center

In the effort to boost ridership and reduce overall parking demands downtown, staff have identified two general sites in the Vintage/Mendenhall Mall area for location of a Valley Transit Center (VTC). The Nugget Mall site is not suitable for the VTC and is removed enough from Valley commuters and walkers to discourage transit use. It became apparent that a location north of Egan Drive would make some bus schedules impossible to maintain. Capital Transit staff initiated a comprehensive review of service, budgetary impacts, and driver impacts to propose schedule changes that would improve service, minimize budget impacts, and reduce driver demands. While still a work in progress, the proposed schedule and routing changes make the VTC location viable and an anticipated great improvement to Capital Transit customers and service reliability.

In the oncoming months, Engineering & Public Works/Capital Transit will present the proposed changes to the public, revise as feasible to meet customer requests, and proceed with appropriate environmental reviews required by the funding agencies to secure the property for purchase.



Engineering & Public Works Department

155 South Seward Street

Juneau, Alaska 99801

Phone: 907-586-0800 | Fax: 907-463-2606

DATE: January 3, 2018

TO: Loren Jones, Chair
Public Works and Facilities Committee

FROM: John Bohan, Chief CIP Engineer and Water Superintendent

SUBJECT: FY 19 Capital Improvement Program Schedule

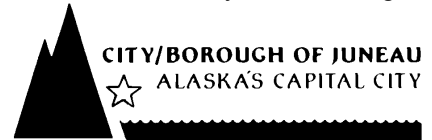
The schedule for the FY 19 Capital Improvement Program (CIP) is as follows:

January 29th PWFC Meeting: Preliminary FY 19 CIP Resolution will be provided to the Committee as an information item to allow the committee to have some time to review

February 26th PWFC Meeting: Preliminary CIP presented as an Action Item with the request to forward to the Finance Committee for review and action.

by April 5th: the Charter requires the Preliminary CIP must be presented to the Assembly

by May 1st: the Charter requires the Assembly hold a public hearing on the CIP

MEMORANDUM

TO: Roger Healy, P.E.
Engineering & Public Works Director

FROM: Greg Smith
Contract Administrator

Date: January 3, 2018

SUBJECT: Contracts Division Activity
November 30, 2017 to January 3, 2018

Current Bids – Construction Projects >\$50,000

BE17-207	Douglas Highway Water Main Replacement	Estimate \$2,416,260. Bids due 7/26/17. 4 bids received. Miller Construction apparent low bidder, \$1,694,125. Assembly Approved on 9/18/17. NTP issued 10/5/17
BE18-033	JNU Gate 2 Passenger Boarding Bridge	Estimate \$2.16 mil. Bids due 2/6/18.
BE18-025	Pederson Hill Subdivision, Phase 1	Estimate \$3 mil. Bids due 11/16/17. 5 bids received. Coogan Construction low bidder. Assembly approved 11/27/17. Award in progress.
BE17-254	Retaining Wall Cleaning and Sealing 2017	Estimate \$80,000. 7 bids received. Silver Bow Construction Co. low bidder, \$54,500. NTP issued 1/4/18.
BE18-098	Downtown Street Improvements – Phase II	Estimate \$1,979,000. 5 bids received. CBC Construction low bidder, \$1,736,902.50. Forwarded to the Assembly for approval at the 1/8/18 meeting.
BE18-074	Glacier Fire Station Roof Replacement	Estimate \$425,000. 5 bids received. Alaska Commercial Contractors low bidder, \$294,942. Award in progress.
BE18-081	Sayèik Gastineau Community School Native Burial Ground Monument	Estimate \$110,000. Island Contractors, low bidder, \$93,236. Award in progress.

Current RFP's – Services

RFP E18-119	Maier Drive Force Main Replacement	PND Engineers, \$88,715. Routing for signatures.
MR E18-124	Design Project Playground Rebuild Resolicitation	Corvus Design, \$108,448.65. NTP issued 12/1/17.
RFP E18-135	Design Services for Salmon Creek Water Filtration Plant Improvements	Proposals due 12/12/17.
CFA E18-080	Design and Production of a Fire Dish (Art) for the Native Burial Ground Monument at Sayèik Gastineau Community School	Nicholas Galanin, \$15,000. Routing for signatures.
RFP E18-158	Design Services for Downtown Wayfinding and Interpretive Element	Proposals due 1/11/18.
RFP E18-147	Rainforest Recovery Center Detox Addition	Proposals due 12/6/17. 2 proposals received. Evaluation underway.
RFP E18-157	CA & Inspection Services for Pederson Hill Subdivision	Proposals due 12/19/17. 4 proposals received. Evaluation underway.

Other Projects – Professional Services – Contracts, Amendments & MR's >\$20,000

RFP E15-263	A1 – CBJ Biosolids Belt Dryer Systems	Veolia Water Technologies, Inc., \$77,698. NTP issued 12/27/17.
RFP E17-239	A1 – CA & Inspection Blueberry Hills Reconstruction	Wilson Engineering, Inc., \$29,393. NTP issued 12/27/17.
RFP E15-276	A7 – Design McGinnis Subdivision Paving, LID 62	DOWL, \$48,855. Routing for signatures.
RFP E17-270	A1 – Design Services for JUN Taxiway A Rehabilitation and Taxiway E Realignment	PDC Engineers, \$1,072,969. NTP issued 1/3/18.

Construction Change Orders (>\$20,000)

BE17-133	CO1 - Mendenhall Wastewater Treatment Plant Biosolids Dryer Facility	Dawson Construction, LLC, \$327,124. Bonding letter sent 12/27/17.
BE17-092	CO3 – JNU Radio Coverage Improvements	Juneau Electric, \$63,821. Bonding letter sent 12/29/17.
BE17-139	CO2 – Blueberry Hills Reconstruction	Arete Construction, \$71,925.27. Routing for signatures.
E15-237	CO5 – Cope Park Phase 2 Improvements	Glacier State Contractors, \$43,679.05. Routing for signatures.
E16-010	CO1 – Dunn Street Paving	Arete Construction, \$25,421. Routing for signatures.

MR E17-166 – Term Contract for Professional Services. This solicitation is open for the next three years. Consultants continue to submit proposals. Contracts are in progress and underway.

Key for Abbreviations and Acronyms

A	Amendment to PA or Professional Services Contract
CA	Contract Administration
CO	Change Order to construction contract or RFQ
MR	Modification Request – for exceptions to competitive procurement procedures
NTE	Not-to-exceed
NTP	Notice to Proceed
PA	Project Agreement - to either term contracts or utility agreements
RFP	Request for Proposals, solicitation for professional services
RFQ	Request for Quotes (for construction projects <\$50,000)
RSA	Reimbursable Services Agreement
SA	Supplemental Agreement