

Juneau Comprehensive Operations Analysis and Transit Development Plan

DRAFT RECOMMENDATIONS

January 2014







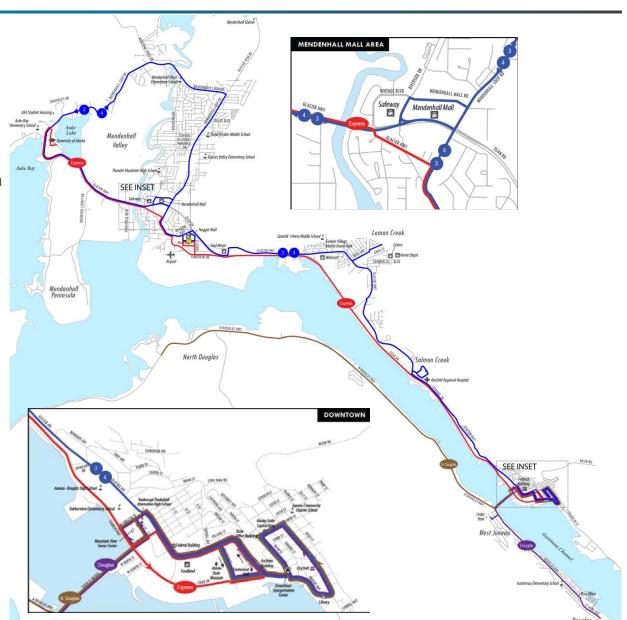
Tonight's Agenda

- System Strengths & Weaknesses
- Service Improvement Objectives
- Draft Recommendations



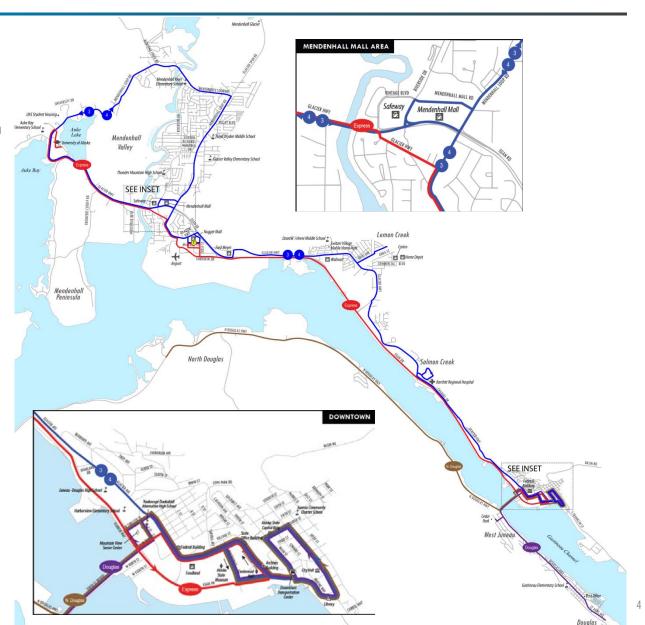
Existing System: Strengths

- Good to excellent service to most greas
- Frequent service (every 30 minutes) on most routes most of the time
- Express service between UAS, Valley, and downtown
- Late evening service on Valley Local and Douglas routes
- Timed-transfers between routes at Nugget Mall and Federal Building
- Two routes serve downtown loop
- High ridership and productivity (especially compared to peer cities
- High community satisfaction



Existing System: Weaknesses

- Service has not kept pace with Juneau's growth
- Schedules stretched thin
 - Buses running behind schedule
 - Transfers being missed
 - Express route doesn't have time to get to DTC
- Overcrowding
- Some significant demands not served
 - Riverside Drive
 - Lemon Creek Industrial
 Area
 - Auke Bay Ferry Terminal
 - Early work times
- Too much service in areas with low demand
 - Back Loop
 - Auke Bay
 - North Douglas



Service Improvement Objectives

Objective

- Improve on-time performance
- Maintain timed-transfers
- Make service simpler and easier to use
- Provide service to areas with high demand
 - Riverside Drive
 - Lemon Creek Industrial Area
 - Ferry Terminal
- Maintain existing service coverage, even where demand is low
 - Back Loop
 - North Douglas
- Implement downtown circulator

Service Improvement Objectives

Ok	pjective	Short-Term	Mid-Term
•	Improve on-time performance		
٠	Maintain timed-transfers	Most	Most
•	Make service simpler and easier to use		
•	Provide service to areas with high demand - Riverside Drive - Lemon Creek Industrial Area - Ferry Terminal	V	
•	Maintain service coverage, even where demand is low – Back Loop – North Douglas	✓✓	✓✓
-	Implement downtown circulator		

Additional Improvement Objectives

Objective

- Provide more user-friendly information
- Implement technology improvements
- Upgrade facilities





Additional Improvement Objectives

Ol	pjective	Short-Term	Mid-Term
•	Provide more user-friendly information - Upgraded website - Improved maps and schedules - Google Transit - Real-time passenger information		
•	 Implement technology improvements Automatic vehicle location (AVL) Computer aided dispatch (CAD) Automatic passenger counters (APCs) Electronic fareboxes 		
•	Upgrade facilities - Nugget Mall Superstop - Shelter Lighting		✓✓

Short-Term Service Recommendations

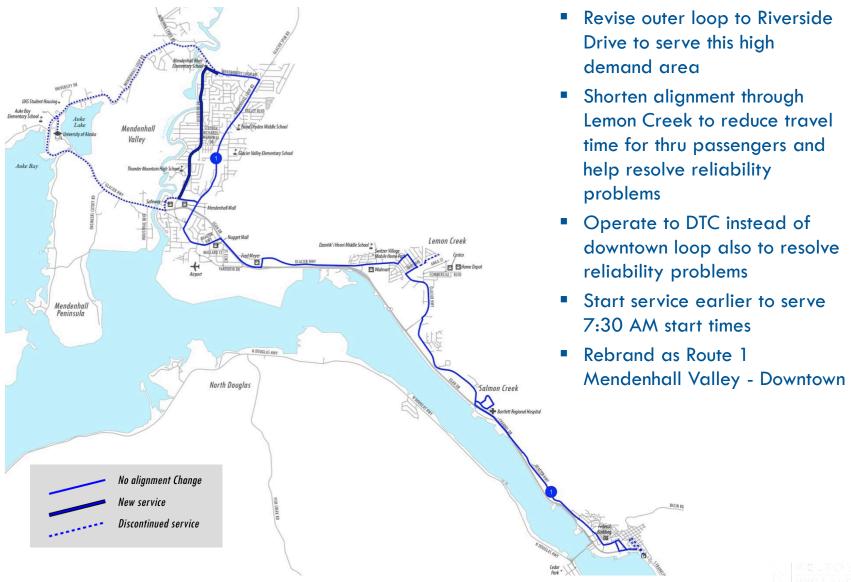
Systemwide

- Rebrand all routes with number and names
- Publish schedule information on Google Transit
- Produce system map and single brochure with all routes
- Upgrade website

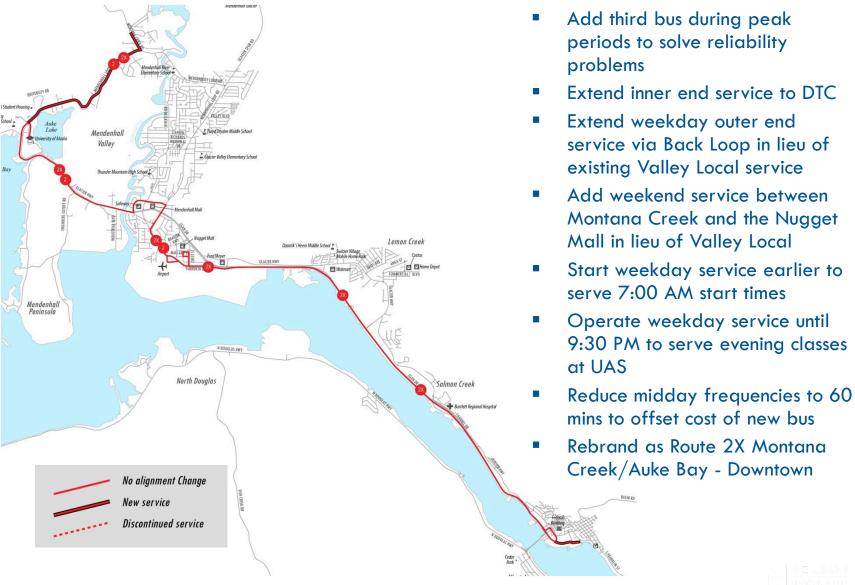
Route changes

- Valley Local: Alignment changes to resolve on-time performance problems, operate via Riverside Drive, and earlier service
- Express: Add bus during peak periods to resolve running time problems, extend to Montana Creek and DTC, and earlier service; reduce midday frequencies to 60 minutes to offset cost of add'l bus
- Douglas: Only minor changes
- North Douglas: Discontinue barely utilized midday trip
- "Additional Service" commuter runs: Consolidate into new express route

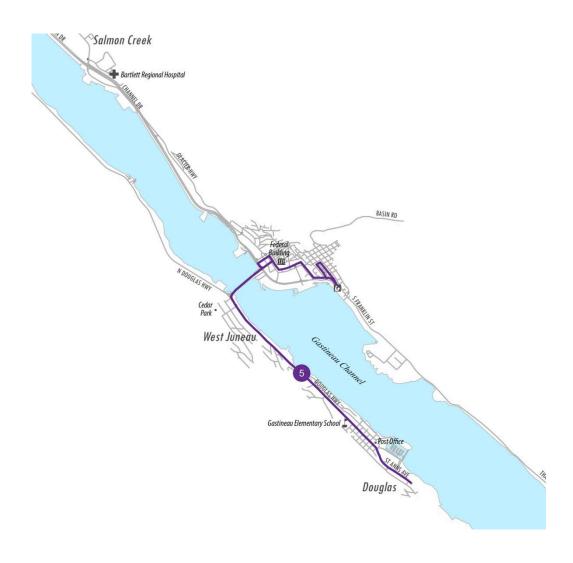
Valley Local



Express



Douglas



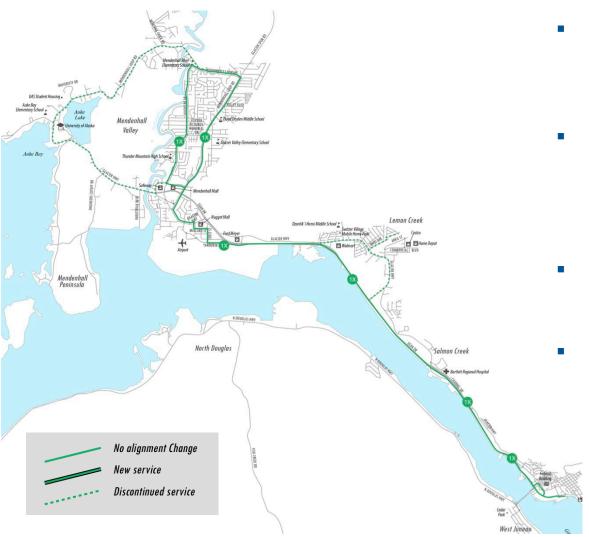
- Incorporate AM peak "Douglas Express" morning trip into the regular Douglas schedule to simplify service and plug the hole in the existing Douglas schedule.
- Continue to provide service around the downtown loop
- Continue to provide timedtransfers to peak direction passengers
- However, changes to Valley Local service to improve reliability would "break" nonpeak direction timed-transfers
- Rebrand Service as Route 5
 Douglas Downtown

North Douglas



- Discontinue midday trip used by only 2 passengers in each direction to help fund other improvements
- Rebrand Service as Route 6
 North Douglas Downtown

"Additional Service" Commuter Runs



- Four AM inbound and three PM outbound trips provide similar but different service in a confusing manner
- Consolidate these trips into new Mendenhall Valley – Downtown express route that provides all service in the same manner
- On weekdays, provide four AM inbound and four PM outbound trips.
- Brand as Route 1X Mendenhall
 Valley Downtown Express.

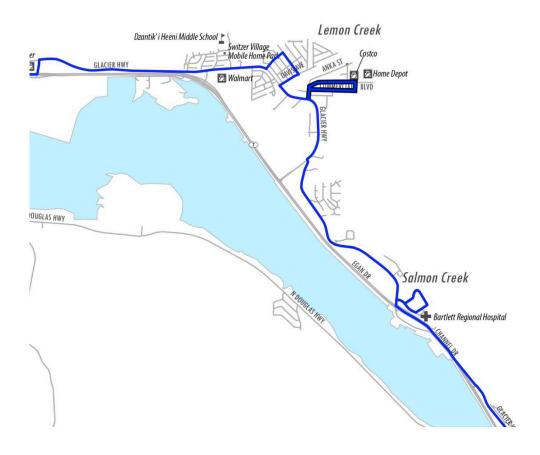
Impacts of Short-Term Changes

- Resolve on-time performance issues
- Provide equal or better service for most riders
 - Exceptions:
 - Midday Express route riders (frequencies reduced from 30 to 60 mins)
 - Nightime Auke Bay riders (service would end at 9:30 PM instead of 11:30 PM)
 - Midday North Douglas riders (but only four)
- Serve new riders
 - Riverside Drive
 - Earlier work trips
- Maintain timed-transfers for large majority of riders
 - Exception: Douglas Valley Local non-peak direction travel
- Operating cost impact = \$200,000 per year

Mid-Term Recommendations

- Service to Lemon Creek Industrial Area
- Service to Auke Bay Ferry Terminal
- Earlier and later service (beyond short-term recs)
- Technology improvements
 - Automatic Vehicle Location (AVL)
 - Computer Aided Dispatch (CAD)
 - Automatic passenger counters (APCs)
 - Electronic fareboxes
 - Real-time passenger information
- Facility improvements
 - Nugget Mall superstop
 - Shelter lighting

Service to Lemon Creek Industrial Area



- Would require addition of one bus to Valley Local service (new Route 1)
- Would also allow service to be extended around downtown loop
- Operating cost = \$540,000 per year

Service to Auke Bay Ferry Terminal



- Most cost-effective approach to alternate outer end Express (new Route 2X) service between Montana Creek and Ferry Terminal
- 60 min service to each outer leg/30 min trunk service would cost add'l \$450,000 per year
- Would also restore 30 min midday service, and add 30 minute evening service

Earlier and Later Service

• First arrivals in downtown to serve 7:00 AM work start times:

	First Arrival in Downtown			
	Short-Term	Mid-Term	Annual Operating	
	Recs	Recs	Cost	
Rt 1 Mendenhall Valley - Downtown	7:20 AM	6:50 AM	\$35,000	
Rt 2X Montana Creek/Auke Bay – Downtown Express	6:27 AM	6:27 AM	\$0	
Rt 5 Douglas - Downtown	7:12 AM	6:42 AM	\$15,000	
Total			\$50,000	

Last departures from downtown no earlier than 11:30 PM:

	First Arrival	in Downtown		
	Short-Term	Mid-Term	Annual Operating	
	Recs	Recs	Cost	
Rt 1 Mendenhall Valley - Downtown	10:35 PM	11:35 PM	\$30,000	
Rt 2 Montana Creek/Auke Bay — Nugget Mall	8:47 PM	11:47 AM	\$100,000	
Rt 5 Douglas - Downtown	11:17 PM	12:17 AM	\$15,000	
Total			\$145,000	

Technology Improvements

- Automatic Vehicle Location Computer Aided Dispatch (AVL/CAD) to know where buses are, better responded to delays, incidents, and automate scheduling (\$600,000)
- Scheduling software to produce more efficient schedules in a timely manner (\$150,000)
- Automatic passenger counters (APCs) to track ridership on an ongoing basis (\$200,000)
- Electronic fareboxes to automate fare handling (\$250,000)
- Real-time passenger information to provide much better information to passengers (\$250,000)





Facility Improvements

- Nugget Mall Transfer Hub upgrades (\$500,000):
 - Location is highest ridership stop outside of downtown
 - Facilities are minimal and substandard for a major transfer point
 - Upgrade to "Superstop"
- Shelter Lighting at unlit or poorly lit locations (\$1000 per shelter)





Cost Impacts

- Short-term operating costs increases would be low (\$200,000)
- Mid-term costs significantly higher

	Short-Term	Mid-Term	Total
Operating Costs			
Short-Term Operating Recommendations	\$200,000		\$200,00
Mid-Term Expansion			
Lemon Creek Industrial Area		\$550,000	\$550,000
Auke Bay Ferry Terminal		\$450,000	\$450,000
Earlier/Later Service		\$200,000	\$200,000
Total	\$200,000	\$1.2 million	\$1.4 million
Capital Costs			
Technology Improvements			
Automatic Vehicle Location/Computer Aided Dispatch (AVL/CAD)		\$600,000	\$600,000
Scheduling Software		\$300,000	\$300,000
Automatic Passenger Counters (APCs)		\$150,000	\$150,000
Real-Time Passenger Information		\$250,000	\$250,000
Electronic Fareboxes		\$250,000	\$250,000
Total		\$1.6 million	\$1.6 million
Facility Upgrades			
Nugget Mall Transfer Facility Upgrades		\$500,000	\$500,000
Shelter Lighting		\$50,000	\$50,000
Total		\$550,000	\$550,000
Total Capital		\$2.7 million	\$2.7 million

Summary

- Juneau served with impressively successful transit system
- But demands have outgrown capacity
- Many new demands can be met with only small increase in operating costs
- But not all, including:
 - Lemon Creek Industrial Area
 - Auke Bay Ferry Terminal
 - Early and later service
- Proposed service changes represent collaborative effort between PMT and consulting team. They involve trade-offs but will:
 - Resolve existing service issues
 - Provide better or equal service for large majority of existing riders
 - More effective use of existing resources
 - Attract new riders