

APPENDIX D: Road Inventory & Priorities

MEMORANDUM

DATE: August 6, 2021

TO: Josie Bahnke, Deputy City Manager
City of Kodiak
710 Mill Bay Road
Kodiak, AK 99615

FROM: Jackie Wander, Civil Engineer
Bristol Engineering Services Company, LLC (Bristol)

RE: **Roadway Inventory and Recommended Road Maintenance Priorities for the Kodiak Long-Range Transportation Plan (LRTP) Project**

This memorandum provides a summary of the DRAFT Roadway Inventory and recommended road maintenance priorities based on data collected for each existing roadway within the Kodiak City Boundary.

ROADWAY INVENTORY

Bristol developed an inventory list of all roadways within the City of Kodiak Boundary. Apart from two State-owned roads (Rezanof Drive and Benny Benson Drive), all roads in the inventory are owned and maintained by the City.

The inventory is provided as Attachment 1 to this memorandum.

The purpose of the inventory is to allow the City to track roadway conditions and prioritize maintenance activities. For example, if a roadway was identified to have potholes and poor drainage, this roadway may be assigned a high maintenance priority.

Abbreviations

The following abbreviations were used to categorize and rank features and conditions of each roadway.

Measurements

AADT Average annual daily traffic count

mph Miles per hour

Materials

C Concrete

CG Curb & Gutter

E Earthen

G Gravel

P Paved

Condition

A Adequate

I Inadequate

Features

X Feature is present

Blank Feature is not present

Priorities

H High

M Medium

L Low

Fields

For each roadway, the following data was collected:

- Surface
 - Type
 - Gravel or Paved
 - Surface Width (feet)
 - Measured in the field or on Google Earth.
 - Measurements are approximate.
 - Measurements include all lanes but do not include shoulder width.
- Lanes
 - Number of lanes
 - On-street parking
- Roadbed Condition
 - Potholes
 - Ruts
 - Cracking
 - This only applies to paved roads
 - Missing surface course
 - This only applies to gravel roads
 - This indicates surface course has been worn down over time, which leaves the subgrade (larger sized gravel) exposed, reducing the smoothness of the driving surface
 - Drainage
 - Adequate or inadequate

- Drainage was considered adequate if storm drain catch basins were present, if the roadway was properly sloped or crowned, or if drainage ditches and culverts appeared in good condition.
 - Drainage was considered inadequate if standing water and potholes were observed, if the roadway appeared flat without crowning, if storm drain catch basins were not present, if ditches and culverts were not present or if they were damaged or filled with vegetation or debris.
 - Overall condition rated in the field based on severity of roadbed issues
 - Active Construction
 - Noted for roadways under construction at time of site visit
- Accessibility
 - Sidewalks
 - Concrete or Paved
 - 1=Sidewalk on one side of road
 - 2=Sidewalk on both sides of road
 - Striping
 - Adequate or inadequate (faded)
 - Striping was only identified as inadequate if existing striping was observed to be faded. This does not indicate if a road should have painted stripes or markings or not.
 - Crosswalks
 - Only painted white crosswalks on pavement were identified.
- Shoulder
 - Type
 - Curb & gutter, earth, gravel, or paved
 - Width
 - Measured in the field or estimated.
 - Measurements are approximate.
 - Road Signs
 - School Zone
 - Stop
 - Speed Limit
 - Street Name
 - Other
 - Utilities
 - Streetlights
 - At least one streetlight was present and functioning along the length of the roadway
 - Storm Drain
 - Catch basin inlets were observed
 - Power
 - Above ground power poles and lines were observed
 - Water

- Water valve boxes or fire hydrants were observed or assumed to be present based on development
- Sewer
 - Sewer manholes or cleanouts were observed or assumed to be present based on development
- Priority
 - Repaving or grading needed
 - Sign improvements needed
 - Safety improvements needed
 - Winter maintenance priority
 - Vegetation clearing needed
- Notes

[End of memorandum]

Attachments:

Road Inventory & Maintenance Log

**CITY OF KODIAK
ROAD INVENTORY**

OBJECT ID	Road Name	Surface			Lanes		Roadbed Condition					Accessibility			Shoulder		Road Signs					Utilities					Priority					
		G=Gravel P=Paved	(feet)	(miles)	#	X=Yes Blank=No					A=Adequate I=Inadequate		X=Yes Blank=No	1=One side 2=Both sides C=Concrete P=Paved	A=Adequate I=Inadequate Blank=None	CG=Curb & Gutter E=Earth G=Gravel P=Paved	(feet)	(mph)	X=Yes Blank=No					Pave or Grade	Safety	Winter Maint- enance	Sign Improve- ments	Vege- tation Clearing				
						Surface Type	Surface Width	Road Length	No. of Lanes	On-Street Parking	Pot- holes	Ruts							Cracking	Missing Surface Course	Drainage	Overall Roadbed Condition	Active Con- struction 2021						Cross walks	Shoulder Type	Shoulder Width	Speed Limit Signs
240	11th Ave	P	18		2					A	A				CG	1									X			L		H	L	
284	12th Ave	P	26		2	X			X	A	I			2C	CG	1				X					X		L			L		
293	12th Ave	P	28		2	X				A	A			2C	CG	1				X			X	X	X		L	H		L		
288	13th Ave (Thirteenth Ave)	P	30		2				X	A	I			2C	CG	1						X	X	X	X	X	L		H	L		
238	14th Ave	P	30		2				X	A	I			2C	CG	1						X	X		X		L			L	H	
231	17th Ave	P	28		2				X	A	I			1C	CG	1							X				L			L		
419	17th Ave	G	22		2					X	A	I			G	1							X			M				L		
370	Alder Ln	P	30		2				X	A	A		X	1C	CG	1	10						X		X	X	L		H	L		
424	Alimaq Dr	P	22		2				X	A	I				G	3	25						X		X		L			L		
272	Armstrong Ave	P	28		2				X	A	I		X	2C	CG	1						X	X			M			H			
207	Bancroft Dr	G	16		2		X			A	I				G	2							X	X	X	M		H	L			
254	Baranof St	P	28		2	X			X	A	I			2C	CG	1	20					X		X		L			L			
175	Bartell Ave (Bartel Ave)	P	24		2				X	A	A		X	2C	CG	1	20					X	X	X	X	X	L			L		
208	Benny Benson Dr	P	20		2					A	A		X		A	P	3	30	X							L			L			
308	Birch Ave	P	30		2	X			X	A	I			2C	CG	1	20						X	X	X	X	L			L	H	
165	Bonaparte Cir	P	22		2					A	A			2C	CG	1						X	X	X	X	X	L		H	L		
336	Carolyn St	P	28		2		X	X	X	A	I			2C	CG	1						X	X	X	X	X	H		H	L		
431	Cedar St	P	30		2					A	A			2P	CG	1						X	X	X	X	X	L			L		
353	Center Ave	P	38		2	X				A	A		X	2C	CG	1						X	X		X		L			L		
177	Chichenof St	P	28		2	X			X	A	I		X	2C	CG	1						X	X	X		L		H	L			
178	Chichenof St	P	24		2					A	A			1C	CG	1	15							X	X	L			L			
260	Chichenof St	G	12		2		X			I	I					0							X			M			L			
378	Cope St	P	12		2		X		X	A	I				CG	1						X	X	X	X	X	H		H	L		
233	Delaroff Ave (Delarof Ave)	G	24		2				X	I	I				G	3						X		X		M			L			
862	Dog Salmon Bay Rd	P	22		2				X	A	I				I	G	10	25						X	X	X	L			L		
229	E Kouskov St	G	20		2					I	I				G	1						X		X	X	X	M			L		
369	E Marine Way	G	22		2		X			I	I				G	2						X		X		H			L			
672	E Marine Way	P	28		2				X	I	A				G/CG	1						X		X	X	X	M			L		
72	E Rezanof Dr	P	38		2	X				A	A			2C	A	CG	1		X				X	X	X	X	L	H		L		
367	E Tagura Rd	G	8		1		X			A	I					0										M		H	L			
328	Egan Way	P	22		2					A	A		X	1C	CG	1						X		X		L			H			
335	Erskine Ave	P	30		2	X				A	A			2C	CG	1					X		X	X	X	L			L			
358	Erskine Ave	P	25		2				X	A	I			1C	CG	1						X	X	X		M			L			
302	Father Herman St	G	14		2		X			A	I					0	10									M			L			
402	Felton Ave	G	12		2		X	X		I	I					0						X		X		H		H	L			
342	Fir Ave	P	30		2	X				A	A		X	2C	CG	1							X		X	L			L			
1073	Fred Zharoff Memorial Bridge R	P	32		2					A	A		X		P	1										L			L			
348	Gerasim Ave	P	26		2				X	A	I			1C	CG	1						X	X	X	X	L		H	L			
397	Gibson Cove Rd	G	18		2					A	A				G	8								X	X	L			L			
725	Gibson Cove Rd Branch	G	10		2		X			I	I					0										L			L			
338	Hemlock St	P	30		2	X			X	A	I			2C	C	1						X	X	X	X	L			L			
429	High St (High Ave)	G	14		2				X	A	I					0								X		L		H	L			
141	Hillary Ln	P	25		2					A	A			2C	CG	1					X		X	X	X	L			H			
349	Hillside Dr	P	32		2	X			X	A	I			1C	CG	1						X		X	X	M			L			
242	Ismailov St	G	24		2					I	I				G	3	20							X		M			H	H		
243	Ismailov St	P	30		2				X	A	I			2C	CG	1						X	X	X	X	M			L			
381	Jack Hinkel Way	P	16		2					A	A			1C	CG	1						X	X	X	X	L			L			
355	Kashevaroff Ave	P	36		2	X			X	A	I		X	2C	CG	1					X	X				L			H			
409	Kodiak College Dr	P	22		2					A	A					0										L			L			
171	Larch St	P	22		2	X				A	A			1C	CG	1	20						X	X	X	L			H			
416	Lechner Way	P	12		2					I	A					0								X		L			H			
1076	Lightfoot Ave	G	10		2				X	A	I					0								X	X	L		H	L			
167	Lynden Way	P	30		2					A	A			1C	CG	1						X	X	X	X	L			L			
323	Madsen Ave	P	30		2				X	A	I			2C	CG	1	20					X		X	X	M			L			
278	Malutin Ln	G	14		2		X	X		I	I					0								X		H			L			
403	Malutin Ln	G	20		2		X			I	I					0								X		H			L			
313	Maple Ave	P	30		2	X				A	A			2C	CG	1	20						X	X	X	M			L			
143	Mill Bay Rd	P	28		2				X	A	I			2C	CG	1						X	X	X	X	H			L			
205	Mill Bay Rd	P	34		3				X	A	I			2C	I	CG	1	30	X				X	X	X	H			L			
215	Mission Rd	P	22		2		X	X	X	A	I		X		P/G	3	20						X	X	X	H			L			
163	Mozart Cir	P	22		2					A	A			2C	I	CG	1					X		X	X	L		H	H			

**CITY OF KODIAK
ROAD INVENTORY**

OBJECT ID	Road Name	Surface			Lanes		Roadbed Condition					Accessibility			Shoulder		Road Signs					Utilities					Priority											
		G=Gravel P=Paved	(feet)	(miles)	#	X=Yes Blank=No					A=Adequate I=Inadequate	X=Yes Blank=No	1=One side 2=Both sides C=Concrete P=Paved	A=Adequate I=Inadequate Blank=None	CG=Curb & Gutter E=Earth G=Gravel P=Paved	(feet)	(mph)	X=Yes Blank=No					L=Low Priority M=Medium Priority H=High Priority															
		Surface Type	Surface Width	Road Length	No. of Lanes	On-Street Parking	Pot-holes	Ruts	Cracking	Missing Surface Course	Drainage	Overall Roadbed Condition	Active Construction 2021	Cross walks	Sidewalks	Pavement Striping	Shoulder Type	Shoulder Width	Speed Limit Signs	School Zone Signs	Stop Signs	Street Name Signs	Other Signs	Street-lights	Storm Drain	Power	Water	Sewer	Pave or Grade	Safety	Winter Maintenance	Sign Improvements	Vegetation Clearing					
137	Murphy Way	P	18		2	X			X		A	I			2C		CG	1						X		X	X	X	L			L						
170	Mylark Ln	P	30		2				X		A	I			1C		CG	1						X	X	X	X	X	M			L						
1102	Natalia Way	P	18		2						A	A					CG	1	5					X			X	L			L							
1079	Oak Ave	P	30		2				X		A	A		X	2C		CG	1	20					X	X	X	X	L			L							
249	Ole Johnson Ave	P	28		2				X		A	I		X	2C		CG	1					X		X	X	L			L								
399	Pillar Mountain Rd	G	18		2			X	X		A	I					CG	0									L			L								
401	Pillar Mountain Rd	P	20		2						A	A			1C		CG	1					X	X	X	X	L			L								
327	Pine Crescent Loop	P	30		2	X			X		A	I			2C		CG	1					X	X	X	X	X	L			L							
317	Poplar Ave	P	28		2				X		A	I			1C		CG	1					X	X	X	X	X	M		H	L							
280	Powell Ave	P	38		2	X			X		A	I		X	2C		CG	1	20	X			X	X	X	X	M			L								
326	Purtov St	P	30		2		X		X		A	I		X	2C		CG	1					X	X	X	X	X	M			L							
368	Sargent Dr	G	16		2		X			X	I	I					CG	0	10				X		X		M			H	L							
147	Selief Ln	P	24		2						A	A			2C	I	CG	1	20				X	X	X	X	X	L			L							
262	Selig St	G	22		2		X	X			A	I					CG	0					X		X		M			H	L							
380	Shelikof St	P	30		2	X			X		A	I			2C		CG	1	10			X	X	X	X	X	L			L								
382	Shelikof St	P	28		2	X		X	X		A	A		X	2C		CG	1	20				X	X	X	X	X	M			L							
180	Simeonoff St	P	30		2	X			X		A	A		X			CG	1			X		X	X	X	X	L			H	L							
298	Spruce Ave	G	22		2		X				A	A					G	1								M			L			L						
295	Steller Way	P	14		2						A	A					CG	1	10		X		X	X	X	X	L			H	L							
366	Tagura Rd	G	12		2					X	A	I					CG	0					X		X		L			L			L					
319	Thorsheim St	P	30		2				X		A	A			2P		CG	1	20				X	X	X	X	X	L			H	L						
421	Trident Way	G	22		2						A	A					G	5	25						X		L			L			L					
423	Trident Way	P	22		2				X		A	I				I	G	3	25				X		X	X	L			L			L					
400	Upper Reservoir Access Rd	G	14		2		X				A	I					CG	0							X		L			L			L					
412	Urdahl Loop	G	16		2						I	I					CG	0									L			L			L					
144	Von Scheele Way	P	22		2						A	A			1P		G	3	20				X		X	X	X	L			L			L				
376	W Hillcrest St	G	10		2				X		A	A					CG	0						X			L			H	L			L				
377	W Hillcrest St	P	14		2						A	A					CG	1					X	X	X	X	X	L			L			L				
300	W Kouskov St	G	16		2		X				I	I					G	1								M			L			L			L			
362	W Marine Way	P	40		2			X	X		A	I		X	2C		CG	1					X	X	X	X	X	L			L			L				
347	Willow Cir	P	30		2						A	A		X	2P		CG	1					X	X	X	X	X	L			L			L				
343	Willow St	P	30		2	X			X		A	I			2P		CG	1	20				X	X	X	X	X	L			L			L				
334	Wilson St	P	28		2				X		A	I			2C		CG	1							X	X	X	M			H	L			L			
304	Wolkoff Ln	G	12		2	X		X			I	I					CG	0						X	X		M			H	L			L				
831	Woody Way Cir	P	22		2						A	A			2C		CG	1					X	X	X	X	X	L			L			L				
130	Woody Way Loop	P	20		2		X				A	A			2C		CG	1			X		X	X	X	X	L			H	L			L				
139	Woody Way Loop	P	24		2	X			X		A	A			1C		CG	1					X	X	X	X	X	L			L			L				
237	Yanovsky St	G	15		2		X			X	I	I					CG	0					X		X		M			L			L			L		
1106	Yukon Way	P	22		2	X			X		I	I					CG	1					X	X	X	X	X	M			L			L			L	
872	Zentner St	G	14		2		X				I	I					CG	0									M			L			L			L		
255	Zentner St	P	28		2	X			X		A	I		X	2C		CG	1								X	M			L			L			L		

CITY OF KODIAK PRIORITIES
PAVED ROADS

Road Name	Maintenance Activity Short Term: 1-5 Years					Road Improvements Medium Term: 5-14 Years		Road Improvements Long Term: 15-20 Years	
	Pothole Patching	Crack Repair	Pavement Striping	Sign Improvements	Vegetation Clearing	Repave	Rut Removal	Safety Improvements	Repave
11th Ave									
12th Ave (Baranof to Rezanof)								X	
12th Ave (Rezanof to Mission)		X							
13th Ave aka Thirteenth Ave		X							
14th Ave		X			X				
17th Ave (Simeonoff to Lechner)		X							
Alder Ln		X							
Alimaq Dr		X							
Armstrong Ave		X		X					X
Baranof St		X							
Bartell Ave (Bartel Ave)		X							
Benny Benson Dr (Mill Bay to Rezanof)									
Birch Ave		X			X				
Bonaparte Cir									
Carolyn St	X	X				X	X		
Cedar St									
Center Ave									
Chichenof St (Armstrong to Baranof Park)									
Chichenof St (East of Bartel)		X							
Cope St	X	X				X			
Dog Salmon Bay Rd		X	X						
E Marine Way (Center to Near Island Bridge)		X							X
E Rezanof Dr								X	
Egan Way				X					
Erskine Ave (North of Mission)		X							X

CITY OF KODIAK PRIORITIES
PAVED ROADS

Road Name	Maintenance Activity Short Term: 1-5 Years					Road Improvements Medium Term: 5-14 Years		Road Improvements Long Term: 15-20 Years	
	Pothole Patching	Crack Repair	Pavement Striping	Sign Improvements	Vegetation Clearing	Repave	Rut Removal	Safety Improvements	Repave
Erskine Ave (Rezanof to Mill Bay)									
Fir Ave									
Fred Zharoff Memorial Bridge Rd									
Gerasim Ave		X							
Hemlock St		X							
Hillary Ln				X					
Hillside Dr		X							X
Ismailov St (14th to Mission)		X							X
Jack Hinkel Way									
Kashevaroff Ave		X		X					
Kodiak College Dr									
Larch St			X	X					
Lechner Way				X					
Lower Mill Bay Rd		X	X			X	X		
Lynden Way			X						
Madsen Ave		X							X
Maple Ave									X
Mill Bay Rd (Center to Lower Mill Bay)		X	X			X	X		
Mill Bay Rd (Lower Mill Bay to Rezanof)		X	X			X	X		
Mission Rd (West Marine to Urdahl Loop)	X	X	X			X	X	X	
Mozart Cir			X	X					
Murphy Way		X							
Mylark Ln		X							X
Natalia Way									
Oak Ave		X							

CITY OF KODIAK PRIORITIES
PAVED ROADS

Road Name	Maintenance Activity Short Term: 1-5 Years					Road Improvements Medium Term: 5-14 Years		Road Improvements Long Term: 15-20 Years	
	Pothole Patching	Crack Repair	Pavement Striping	Sign Improvements	Vegetation Clearing	Repave	Rut Removal	Safety Improvements	Repave
Ole Johnson Ave		X							
Pillar Mountain Rd (Mapple to Upper Reservoir Access)									
Pillar Mountain Trail									
Pine Crescent Loop		X							
Poplar Ave		X							X
Powell Ave		X							X
Purtov St	X	X							X
Selief Ln (Maple to Beaver)			X						
Shelikof St (Jack Hinkel to Rezanof)		X							
Shelikof St (West Marine to Jack Hinkel)		X					X		X
Simeonoff St		X		X					
Steller Way				X					
Thorsheim St		X							
Trident Way (Alimaq to Research)		X	X						
Unknown									
Unknown									
Unknown									
Von Scheele Way									
W Hillcrest St									
W Marine Way		X					X		
Willow Cir									
Willow St		X							
Wilson St		X							X
Woody Way Cir									
Woody Way Loop (Rezanof to Woody Way Cir)		X							

CITY OF KODIAK PRIORITIES
PAVED ROADS

Road Name	Maintenance Activity Short Term: 1-5 Years					Road Improvements Medium Term: 5-14 Years		Road Improvements Long Term: 15-20 Years	
	Pothole Patching	Crack Repair	Pavement Striping	Sign Improvements	Vegetation Clearing	Repave	Rut Removal	Safety Improvements	Repave
Woody Way Loop (Rezanof topast Murphy Way)	X			X					
Yukon Way		X							X
Zentner St (Armstrong to Ole Johnson)		X							X

CITY OF KODIAK PRIORITIES
GRAVEL ROADS

Road Name	Maintenance Activity Short Term: 1-5 Years			Road Improvements Medium Term: 5-14 Years			Road Improvements Long Term: 15-20 Years
	Regrade	Sign Improve- ments	Vege- tation Clearing	Replace Surface Course	Drainage Improve- ments	Regrade	Regrade
17th Ave (Ismailov to Mission)				X		X	X
Bancroft Dr	X						X
Chichenof St (East of Armstrong)	X				X		X
Delaroff Ave aka Delarof Ave				X	X	X	X
E Hillcrest St	X						X
E Kouskov St				X	X	X	X
E Marine Way (East of Near Island Bridge)	X				X		X
E Tagura Rd	X						X
Father Herman St	X						X
Felton Ave	X				X		X
Gibson Cove Beach Rd	X				X		X
Gibson Cove Rd						X	X
High St (High Ave)	X						X
Ismailov St (Rezanof to Ole Johnson)		X	X	X	X	X	X
Lightfoot Ave	X						X
Malutin Ln (Selig to Felton)	X				X		X
Malutin Ln (Off Mill Bay)	X				X		X
Pillar Mountain Rd (Upper Reservoir Access to Windmills)	X						X
Sargent Dr	X	X		X	X		X
Selig St	X						X
Spruce Ave	X						X

CITY OF KODIAK PRIORITIES
GRAVEL ROADS

Road Name	Maintenance Activity Short Term: 1-5 Years			Road Improvements Medium Term: 5-14 Years			Road Improvements Long Term: 15-20 Years
	Regrade	Sign Improve- ments	Vege- tation Clearing	Replace Surface Course	Drainage Improve- ments	Regrade	Regrade
Tagura Rd				X		X	X
Trident Way (Research to Seaplanes)						X	X
Upper Reservoir Access Rd	X						X
Urdahl Loop					X	X	X
W Kouskov St	X				X		X
Wolkoff Ln	X				X		X
Yanovsky St	X			X	X		X
Zentner St (Ole Johnson to Simeonoff)	X				X		X
Pillar Mountain Trail						X	X
Unknown						X	X
Unknown						X	X
Unknown						X	X

Notes:

Roads were given a short term regrading priority if they have existing potholes or rutting.
Roads were given a medium term regrading priority if they have minor surface issues presently.
All gravel roads should be graded regularly, and were given a long-term regrading priority.
Drainage improvements can include road crowing, ditch reconditioning, and culvert installation.
Roads with worn down or missing surface course were given a medium priority.

CITY OF KODIAK PRIORITIES
WINTER MAINTENANCE

Road Name	Reasoning
11th Ave	Steep
13th Ave (Thirteenth Ave)	Steep
Alder Ln	Steep
Bancroft Dr	Steep
Birch St	School Access
Bonaparte Cir	Steep
Carolyn St	Steep
Chichenof St	Steep
Cope St	Steep
E Hillcrest St	Steep
E Tagura Rd	Steep
Egan Way	School Access
Felton Ave	Steep
Gerasim Ave	Steep
High St (High Ave)	Steep
Lightfoot Ave	Steep
Lower Mill Bay	Traffic Volume
Marine Way	Traffic Volume
Mill Bay Rd (Center to Lower Mill Bay)	Traffic Volume
Mill Bay Rd (Lower Mill Bay to Rezanof)	Traffic Volume
Mission Rd (West Marine to Urdahl Loop)	Traffic Volume
Mozart Cir	Steep
Poplar Ave	Steep
Powell Ave	School Access
Rezanof Drive	Traffic Volume
Steller Way	Steep
Thorsheim St	Steep
Wilson St	Steep
Wolkoff Ln	Steep