



Whatcom County

COUNTY COURTHOUSE
311 Grand Avenue, Ste #105
Bellingham, WA 98225-4038
(360) 778-5010

Agenda Bill Master Report

File Number: AB2021-515

File ID:	AB2021-515	Version:	1	Status:	Approved
File Created:	08/31/2021	Entered by:	SMock@co.whatcom.wa.us		
Department:	Public Works Department	File Type:	Resolution Requiring a Public Hearing		
Assigned to:	Council			Final Action:	09/28/2021
Agenda Date:	09/28/2021			Enactment #:	RES 2021-039

Primary Contact Email: sdraper

TITLE FOR AGENDA ITEM:

Resolution in the matter of the Whatcom County Six-Year Transportation Improvement Program (STIP) for the years 2022 through 2027

SUMMARY STATEMENT OR LEGAL NOTICE LANGUAGE:

Each year the County is required to update its Six-Year Transportation Improvement Program (STIP), per RCW 35.77.010 and RCW 36.81.121. The STIP includes the capital elements of the first six years of the Fourteen-Year Ferry Program. The STIP is intended as a planning tool for local, state, and federally funded projects and is designed to identify projects for preliminary engineering, right-of-way purchase and/or construction

HISTORY OF LEGISLATIVE FILE

Date:	Acting Body:	Action:	Sent To:
09/14/2021	Council	INTRODUCED FOR PUBLIC HEARING	Council
		Aye: 7 Browne, Buchanan, Byrd, Donovan, Elenbaas, Frazey, and Kershner	
		Nay: 0	
		Absent: 0	
09/28/2021	Council	APPROVED	
		Aye: 7 Browne, Buchanan, Byrd, Donovan, Elenbaas, Frazey, and Kershner	
		Nay: 0	
		Absent: 0	

Attachments: Staff Memo, 2022-2027 resolution, 2022-2027 Project Narratives, Attachments, E. 2020 Annual Bridge Report FINAL, Exhibit A 2022-2027 Draft STIP, Exhibit B 2022-2035 Ferry Capital Plan Final

PROPOSED BY: Public Works

INTRODUCED: 9/14/2021

RESOLUTION NO. 2021-039

SIX-YEAR TRANSPORTATION IMPROVEMENT PROGRAM
FOR THE YEARS 2022 THROUGH 2027

WHEREAS, pursuant to RCW 36.81.121, Whatcom County is required to prepare and approve a Six-Year Transportation Improvement Program each year; and

WHEREAS, pursuant to RCW 36.54.015, Whatcom County is required to prepare a Fourteen-Year Ferry Capital Program each year; and

WHEREAS, the Road Priority Array and the Annual Bridge Report were made available to the legislative authority during the preparation of this program; and

WHEREAS, following approval of the Six-Year Transportation Improvement Program, the law requires an annual review of the work accomplished under the program and a determination of current transportation needs; and

WHEREAS, based upon the findings of the annual review, and after a public hearing, a Six-Year Transportation Improvement Program shall be approved; and

WHEREAS, pursuant to RCW 36.81.121, the Six-Year Transportation Improvement Program and Fourteen-Year Ferry Capital Program must be consistent with the County comprehensive plan pursuant to RCW 36.70A; and

WHEREAS, the Six-Year Transportation Improvement Program attached hereto as Exhibit "A" has been reviewed and determined to be consistent with the County's comprehensive plan; and


WHEREAS, the Fourteen-Year Ferry Capital Program attached hereto as Exhibit "B" has been reviewed and determined to be consistent with the County's comprehensive plan;

NOW, THEREFORE, BE IT RESOLVED by the Whatcom County Council as follows:

1. That the Whatcom County Six-Year Transportation Improvement Program for the years 2022 through 2027, which is attached hereto as Exhibit "A", including the capital elements of the first six-years of the Fourteen-Year Ferry Capital Program, which is attached hereto as Exhibit "B", is hereby approved.
2. That the County Engineer is directed to file a copy of the same with the County Road Administration Board and the State Secretary of Transportation.

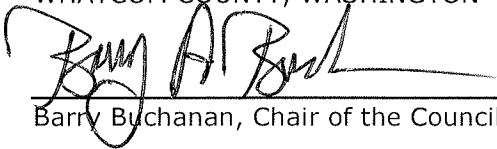
APPROVED this 28th day of September, 2021.

ATTEST:



Dana Brown-Davis, Clerk of the Council

WHATCOM COUNTY COUNCIL
WHATCOM COUNTY, WASHINGTON



Barry Buchanan, Chair of the Council

APPROVED AS TO FORM:

Approved Via Email -CQ/SM 9/2/2021

Chris Quinn, Senior Civil Deputy Prosecuting Attorney

Exhibit "A"
 Draft Six Year
 Transportation
 Improvement Program
 2022-2027

FUNC. CLASS	IMPROVEMENT TYPE(S)	STATUS	TOTAL LENGTH (mi.)	UTILITY CODES	PROJECT PHASE	FUNDING SOURCE INFORMATION				EXPENDITURE SCHEDULE						FEDERALLY FUNDED PROJECTS ONLY				
						FEDERAL FUND CODE	FEDERAL COST BY PHASE	STATE FUNDS		LOCAL FUNDS	TOTAL	YEAR 1 2022	YEAR 2 2023	YEAR 3 2024	Years 4th Thru 6th	TOTAL 2022-2027	Grant Total 2022-2027	Local Total 2022-2027	ENVIRON- MENTAL TYPE	RW REQ? Y/N
								STATE FUND CODE	STATE FUNDS											
17 R1	12	P	1.58	T	PE	1/2022	0	0	0	300	200	90	10	0	300	0	300	CE	No	
	05	C			RW															
	32	S			CN															
	06	W			Total					300	200	90	10	0	300	0	300			
07 R2	06	C	0.40	G	PE	1/2022	0	0	0	400	400	0	0	0	400	0	400	CE	Yes	
	07	S		P	RW	1/2022	0	0	0	150	150	0	0	0	150	0	150			
	12	T		T	CN	5/2022	2,000	0	0	1,750	3,750	0	0	0	3,750	0	1,750			
					Total		2,000	0	0	2,300	4,300	0	0	0	4,300	0	2,300			
16 R3	03	C	0.65	G	PE	1/2022	0	0	0	400	400	0	0	0	400	0	400	CE	Yes	
	06	S		P	RW	1/2022	0	0	0	50	50	0	0	0	50	0	50			
	12	T		T	CN	4/2022	2,509	0	0	591	3,100	0	0	0	3,100	0	2,509			
	32	W		W	Total		2,509	0	0	1,041	3,550	0	0	0	3,550	0	2,509			
17 R4	06	C	0.27	G	PE	1/2022	0	0	0	10	10	0	0	0	10	0	10		Yes	
	12	S		P	RW	1/2022	0	0	0	10	10	0	0	0	10	0	10			
	32	T		T	CN	1/2022	0	0	0	40	40	0	0	0	40	0	40			
				W	Total		0	0	0	60	60	0	0	0	60	0	60			
09 R5	06	C	0.20	G	PE	1/2022	0	0	0	100	100	0	0	0	100	0	100	CE	Yes	
	07	P		P	RW	1/2022	0	0	0	25	25	0	0	0	25	0	25			
	07	T		T	CN	6/2022	0	0	0	600	600	0	0	0	600	0	600			
				W	Total		0	0	0	725	725	0	0	0	725	0	725			
17 R6	06	C	0.25	G	PE	1/2022	0	0	0	950	400	150	400	0	950	0	950	CE	Yes	
	07	P		P	RW	1/2023	0	0	0	500	250	200	50	0	500	0	500			
	12	T		T	CN	5/2024	801	0	0	2,799	3,600	0	3,600	0	3,600	0	2,799			
				W	Total		801	0	0	4,249	850	350	4,050	0	5,050	0	4,249			
16 R7	03	C	0.40	G	PE	1/2022	0	0	0	35	25	5	5	0	35	0	35		Yes	
	06	P		P	RW		0	0	0	0	0	0	0	0	0	0	0			
	12	T		T	CN		0	0	0	0	0	0	0	0	0	0	0			
				W	Total		0	0	0	35	25	5	5	0	35	0	35			
09 R8	05	C	2.50	G	PE	1/2022	0	0	0	100	100	0	0	0	100	0	100		No	
	06	P		P	RW		0	0	0	0	0	0	0	0	0	0	0			
	07	T		T	CN		0	0	0	0	0	0	0	0	0	0	0			
				W	Total		0	0	0	100	100	0	0	0	100	0	100			
16 R9	03	C	0.40	G	PE	1/2022	0	0	0	15	5	5	5	0	15	0	15	CE	Yes	
	06	P		P	RW		0	0	0	0	0	0	0	0	0	0	0			
	12	T		T	CN		0	0	0	0	0	0	0	0	0	0	0			
				W	Total		0	0	0	15	5	5	5	0	15	0	15			
17 R10	06	C	0.10	G	PE	1/2022	0	0	0	195	50	70	75	0	195	0	195		No	
	12	S		P	RW		0	0	0	0	0	0	0	0	0	0	0			

Exhibit "A"
Draft Six Year
Transportation
Improvement Program
2022-2027

FUND CLASS	PROJECT IDENTIFICATION A. PIN/Federal Aid No. B. Bridge Number C. Project Title D. Street/Road Name or Number E. Beginning MP or Road-Ending MP or Road F. Describe Work to be Done	IMPROVEMENT TYPE(S)	STATUS	TOTAL LENGTH (mi.)	UTILITY CODES	PROJECT COSTS IN THOUSANDS OF DOLLARS				EXPENDITURE SCHEDULE							FEDERALLY FUNDED PROJECTS ONLY								
						FUNDING SOURCE INFORMATION		STATE FUNDS		TOTAL	YEAR 1 2022	YEAR 2 2023	YEAR 3 2024	Years 4th Thru 6th	TOTAL 2022-2027	Grant Total 2022-2027	Local Total 2022-2027	ENVIRONMENTAL TYPE	R/W REQ? Y/N	DATE COMPLETE					
						PROJECT PHASE	MONTH/YEAR	FEDERAL FUND CODE	BY PHASE												STATE FUND CODE	OTHER REVENUES	LOCAL FUNDS		
										FEDERAL FUND CODE	STATE FUND CODE														
09 R18	Truck Road 89370 From MP 0.4 to MP 0.6 2020 Flood Damage Repair / R&F Lead	06 07 13	P	0.20		PE	1/2022	0	0	0	37	0	0	0	37	0	0	0	0	37			Yes		
						CN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	
						Total		37	0	0	37	0	0	0	37	0	0	0	0	37	0	0			
09 R19	Abbott Road/Levee Improvements 55560 from MP 1.7 to MP 1.9 Levee Improvements / R&F Lead	03 06	P	0.20		PE	1/2022	0	0	0	155	0	0	0	155	0	0	0	0	155	0	0	155		No
						RW		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		No
						CN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		No
						Total		155	0	0	155	0	0	0	155	0	0	0	0	155	0	0	155		No
16 R20	Ferndale Road/Levee Improvements 12800 from MP 2.50 to MP 3.82 Levee Improvements / R&F Lead	03 06	P	1.32		PE	1/2022	0	0	0	50	0	0	0	50	0	0	0	0	50	0	0	50		Yes
						RW		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		Yes
						CN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		Yes
						Total		50	0	0	50	0	0	0	50	0	0	0	0	50	0	0	50		Yes
16 R21	Lake Louise, Austin St to Lake Whatcom Blvd. 46010 from MP 0.00 to MP 4.06 Pavement Rehabilitation	07 06	P	4.06		PE	1/2022	0	0	0	240	0	0	0	240	0	0	0	0	240	0	0	240		Yes
						RW	1/2023	0	0	0	10	0	0	0	10	0	0	0	0	10	0	0	10		Yes
						CN	6/2023	0	0	0	1,800	0	0	0	1,800	0	0	0	0	1,800	0	0	1,800		Yes
						Total		2,050	0	0	2,050	0	0	0	2,050	0	0	0	0	2,050	0	0	2,050		Yes
16 R22	Austin Street, Lake Louise to Cable 46020 from MP 0.00 to MP 0.37 Pavement Rehabilitation w/ ADA Improvements	07 06	P	0.37		PE	1/2022	0	0	0	125	0	0	0	125	0	0	0	0	125	0	0	125		Yes
						RW	1/2023	0	0	0	10	0	0	0	10	0	0	0	0	10	0	0	10		Yes
						CN	6/2023	0	0	0	400	0	0	0	400	0	0	0	0	400	0	0	400		Yes
						Total		535	0	0	535	0	0	0	535	0	0	0	0	535	0	0	535		Yes
16 R23	Northwest Drive, Slater Rd. to Axton Rd. 74050 from MP 2.38 to MP 4.65 Pavement Rehabilitation	07 06	P	2.27		PE	1/2022	0	0	0	90	0	0	0	90	0	0	0	0	90	0	0	90		Yes
						RW	1/2023	0	0	0	10	0	0	0	10	0	0	0	0	10	0	0	10		Yes
						CN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		Yes
						Total		100	0	0	100	0	0	0	100	0	0	0	0	100	0	0	100		Yes
16 R24	Axton Road, City of Ferndale to SR 539 73680 from MP 0.81 to MP 4.17 Pavement Rehabilitation	07 06	P	3.36		PE	1/2024	0	0	0	175	0	0	0	175	0	0	0	0	175	0	0	175		No
						RW		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		No
						CN	6/2025	0	0	0	1,360	0	0	0	1,360	0	0	0	0	1,360	0	0	1,360		No
						Total		1,535	0	0	1,535	0	0	0	1,535	0	0	0	0	1,535	0	0	1,535		No
07 R25	Hampton Road, City of Lynden UAB to Van Buren 61700 From MP 0.14 to MP 4.79 Pavement Rehabilitation	06 07	P	4.65		PE	1/2022	0	0	0	220	0	0	0	220	0	0	0	0	220	0	0	220		No
						RW		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		No
						CN	6/2024	0	0	0	150	0	0	0	150	0	0	0	0	150	0	0	150		No
						Total		1,900	0	0	2,070	0	0	0	2,070	0	0	0	0	2,070	0	0	1,900		No
07 R26	Everson Goshen Road, Smith Rd. to Pole Rd 55230 from MP 1.99 to 6.08 Pavement Rehabilitation	06 07	P	4.09		PE	1/2025	0	0	0	215	0	0	0	215	0	0	0	0	215	0	0	215		No
						RW		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		No
						CN	6/2026	0	0	0	2,000	0	0	0	2,000	0	0	0	0	2,000	0	0	2,000		No
						Total		2,215	0	0	2,215	0	0	0	2,215	0	0	0	0	2,215	0	0	2,215		No
16 R27	Lakeway Drive/Terrace, COB to Cable 46680 from MP 0.00 to MP 0.63 44200 from MP 0.00 to MP 0.16 Pavement Rehabilitation	06 07	P	0.79		PE	1/2025	0	0	0	125	0	0	0	125	0	0	0	0	125	0	0	125		No
						RW		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		No
						CN	6/2026	0	0	0	600	0	0	0	600	0	0	0	0	600	0	0	600		No
						Total		725	0	0	725	0	0	0	725	0	0	0	0	725	0	0	725		No
16 R28																									No

Exhibit "A"
 Draft Six Year
 Transportation
 Improvement Program
 2022-2027

FUNCT. CLASS	TP PROJECT NO.	PROJECT IDENTIFICATION A. PIN/Federal Aid No. B. Bridge Number C. Project Title D. Street/Road Name or Number E. Beginning MP or Road-Ending MP or Road F. Describe Work to be Done	IMPROVEMENT TYPE(S)	STATUS	TOTAL LENGTH (mi.)	UTILITY CODES	PROJECT PHASE	FUNDING SOURCE INFORMATION			EXPENDITURE SCHEDULE							ENVRON-MENTAL TYPE	RW REQ' Y/M DATE COMPLETE								
								FEDERAL FUNDS			STATE FUNDS				TOTAL	YEAR 1 2022	YEAR 2 2023			YEAR 3 2024	Years 4th Thru 6th	TOTAL 2022-2027	Grant Total 2022-2027	Local Total 2022-2027			
								MONTH / YEAR	FEDERAL FUND CODE	FEDERAL COST BY PHASE	STATE FUND CODE	STATE FUNDS	OTHER REVENUES	LOCAL FUNDS													
07	R35	Everson Goshen Road & E. Smith Road 55230 / 55080 Intersection improvements	06 07 12	P	0.40	C P T	PE RW CN Total	1/2024												10	5	10		10	Yes		
17	R36	Birch Bay Drive / Lora Lane Culvert Replic 20010 From MP2.68 to MP 2.69 Replace large culvert under BB Dr @ Lora Ln	03 06 07	P	0.01	C P T	PE RW CN Total	1/2022													30	5	40		40	Yes	
07	R37	Birch Bay Lynden Rd / Kickerville Rd 21580 From MP 1.89 to MP 2.09 21850 From MP 5.43 to MP 5.63 Intersection improvements	06 07 12	P	0.40	C P T	PE RW CN Total	1/2022													5	5	15		15	Yes	
07	R38	Corridor Intersection Alts Analysis (5 ea) BBL/Berthusen; BBL/Enterprise; Bay/Kicker- viller; Bay/V/View; Hann/Hemmi; Hann/VanWyck Intersection improvements	06 07 12	P	0.40	C P T	PE RW CN Total	1/2022													5	355	360		360	No	
07	R39	Deer Trail Slide Damage Repair 25350 From MP .035 to MP .091 Repair slide damage	03	S	0.06	C P T	PE RW CN Total	1/2022													30	0	30		30	No	
Bridge and Fish Passage Capital Construction																											
16	B1	Marine Drive/Little Squilicum Bridge No.1 12790 From MP 5.24 to 5.34 Rehabilitation	10	P	0.10		PE RW CN Total	1/2025																			Yes
18	B2	Jackson Road/Terrill Creek/Bridge No. 81 21950 From MP 0.00 to MP 0.10 Replacement	09	P	0.10	C W	PE RW CN Total	1/2022 1/2022												200 50	150 50	350 100		350 100		No	
08	B3	Mosquito Lk Rd/Porter Crk/Bridge No. 141 84190 From MP 9.55 to MP 9.65 Replacement	09	P	0.10	T	PE RW CN Total	1/2026																			No
08	B4	North Lake Samish Road/Bridge No. 107 44170 From MP 0.01 to MP 0.11 Replacement	09	S	0.10	P T G	PE RW CN Total	1/2022 1/2022	BR											425	100	525		525		Yes	
08	B5	Goshen Road/Anderson Crk/Bridge No. 248 56140 From MP 0.56 to MP 0.76 Replacement	09	S	0.10	P T	PE RW CN Total	1/2022 1/2024	BR											200 20	100 20	300 40		300 40		Yes	
Page 5.																											

Exhibit "A"
 Draft Six Year
 Transportation
 Improvement Program
 2022-2027

Hearing Date:
 Adoption Date:
 Resolution No:

FUNC. CLASS	TIP PROJECT NO.	PROJECT IDENTIFICATION A. PIN/Federal Aid No. B. Bridge Number C. Project Title D. Street/Road Name or Number E. Beginning MP or Road-Ending MP or Road F. Describe Work to be Done	IMPROVEMENT TYPE(S)	STATUS	TOTAL LENGTH (MI.)	UTILITY CODES	PROJECT COSTS IN THOUSANDS OF DOLLARS			EXPENDITURE SCHEDULE						FEDERALLY FUNDED PROJECTS ONLY					
							FUNDING SOURCE INFORMATION			EXPENDITURE SCHEDULE						FEDERALLY FUNDED PROJECTS ONLY					
							FEDERAL FUND CODE	FEDERAL COST BY PHASE	STATE FUNDS	YEAR 1 2022	YEAR 2 2023	YEAR 3 2024	Years 4th Thru 6th	TOTAL 2022-2027	Grant Total 2022-2027	Local Total 2022-2027	ENVIRON-MENTAL TYPE	R/W REQ' Y/N	DATE COMPLETE		
09	B6	Martin Rd/Anderson Crk/Bridge No. 250 56340 From MP 0.20 to 0.21 Replacement	09	P	0.10			3,950				220	120	3,650		3,950	3,950	40		No	
							Total														
07	B7	Loomis Trail Rd/Bertrand Crk Trib Bridg No. 497 26502 From MP 3.84 to 3.94 Scour Mitigation	09	P	0.10															No	
							Total														
09	B8	Flynn Road/Fishtrap Creek Bridge No. 51 31630 From MP 0.55 to 0.58 Replacement	09	P	0.10															Yes	
							Total														
09	B9	Salakanum Wy/Anderson Crk Bridg No. 509 56050 from MP 0.4 to MP 0.5 Replacement	09	P	0.10															Yes	
							Total														
08	B10	Mosquito Lake Rd/ Hutchinson Crk Tributary 84190 from MP 3.10 to MP 3.20 Fish Passage	06 07	S	0.10	P C T						50 10 10								Yes	
							Total														
09	B11	North Fork Road/Kenney Creek 89510 from MP 1.0 to 1.10 Fish Passage	06 08	S	0.10	P C T						250 270	500							Yes	
							Total														
09	B12	Deal Road 89300 from MP 0.0 to 0.10 Fish Passage	03 06	P								75 20									
							Total														
							Total														

Exhibit "A"
Draft Six Year
Transportation
Improvement Program
2022-2027

Agency: Whatcom County
County No. 37 Co.Name: Whatcom Co.
City No. 0000 MPO/RPO: NON/WCCG

FUNC. CLASS	PROJECT IDENTIFICATION A. PIN/Federal Aid No. B. Bridge Number C. Project Title D. Street/Road Name or Number E. Beginning MP or Road-Ending MP or Road F. Describe Work to be Done	IMPROVEMENT TYPES)	STATUS	TOTAL LENGTH (mi)	UTILITY CODES	PROJECT PHASE	FUNDING SOURCE INFORMATION				EXPENDITURE SCHEDULE				FEDERALLY FUNDED PROJECTS ONLY							
							FEDERAL FUNDS		STATE FUNDS		TOTAL	YEAR 1 2022	YEAR 2 2023	YEAR 3 2024	Years 4th Thru 6th	TOTAL 2022-2027	Grant Total 2022-2027	Local Total 2022-2027	ENVIRON- MENTAL TYPE	RW REQ? Y/N	DATE COMPLETE MONTH / YEAR	
							PHASE STARTS MONTH / YEAR	FEDERAL FUND CODE	FEDERAL COST BY PHASE	STATE FUND CODE												STATE FUNDS
B13	Fox Road/California Creek 22920 at MP 1.07 to 1.17 Fish Passage	03 06	P	0.10		PE RW CN Total	1/2022 1/2022 Total	0 0 0 425	0 0 0 425	0 0 0 425	150 5 155	150 10 160	100 10 110	0 0 0	400 25 425	0 0 0	400 25 425	0 0 0	Yes			
B14	Nulle Road/Friday Creek Bridge No. 106 41830 at MP 0.15 to 0.25 Rehabilitation	03 06	P	0.10		PE RW CN Total	1/2022 1/2022 5/2022 Total	0 0 0 600	0 0 0 600	0 0 0 600	100 0 500 600	0 0 0 600	0 0 0 600	0 0 0 600	100 0 500 600	0 0 0 600	0 0 0 600	0 0 0 600	0 0 0 600	0 0 0 600		
Ferry Capital Construction																						
00 F1	Replacement of Whatcom Chief & Terminal Modification New Ferry and Terminal Modifications	06	P			PE RW CN Total	1/2022 1/2024 Total	896 19,104 20,000	0 0 0	0 0 0	649 0 649	1,076 0 1,076	387 9,168 9,555	96 22,003 22,099	2,208 31,171 33,379	896 21,104 22,000	1,312 10,067 11,379	2,208 31,171 33,379	0 0 0	No		
00 F2	Lummi Island Breakwater Replacement Terminal Modifications	06	S	0.10		PE RW CN Total	1/2022 7/2022 Total	0 885 885	0 FBP 0	0 0 0	150 2,000 2,150	0 0 0	0 0 0	0 0 0	150 2,000 2,150	0 885 885	150 1,115 1,265	150 2,000 2,150	0 0 0	No	CE	
00 F3	Relocation of Gooseberry Terminal	06	P			PE RW CN Total	1/2022 Total	0 0 0 150	0 0 0 0	0 0 0 150	50 0 50	50 0 50	0 0 0	0 0 0	150 0 150	0 0 0	150 0 150	0 0 0	Yes			
Yearly Capital Construction																						
00 Y1	Various Bridges Rehabilitation/Replacement As prioritized	09 10	S			PE RW CN Total	1/2022 1/2022 Total	0 0 0 300	0 0 0 0	0 0 0 300	50 250 300	50 250 300	50 250 300	150 750 900	300 1,500 1,800	0 0 0	300 1,500 1,800	0 0 0	Yes			
00 Y2	Right of Way Acquisition Various locations		S			PE RW CN Total	1/2022 Total	0 0 0 150	0 0 0 0	0 0 0 150	50 0 50	20 0 20	20 0 20	60 0 60	150 0 150	0 0 0	150 0 150	0 0 0	Yes			
00 Y3	Unanticipated Site Improvements As prioritized	06 07 12	S			PE RW CN Total	1/2022 1/2022 Total	0 0 0 180	0 0 0 0	0 0 0 180	30 270 300	30 270 300	30 270 300	90 810 900	180 1,620 1,800	0 0 0	180 1,620 1,800	0 0 0	Yes			
00 Y4	Unanticipated Stormwater Quality Improvements Various locations	06 13	S			PE RW CN Total	1/2022 1/2022 Total	0 0 0 720	0 0 0 0	0 0 0 720	100 100 200	100 100 200	100 100 200	300 300 600	600 600 1,200	0 0 0	600 600 1,200	0 0 0	Yes			
00 Y5	Unanticipated Non-motorized Transportation Improv					PE	1/2022	0	0	0	10	5	5	15	35	0	35	0	35	0	Yes	

EXHIBIT "B"



WHATCOM COUNTY
2022-2035 FOURTEEN-YEAR
FERRY CAPITAL PROGRAM

Overview

This program provides a blueprint for the effective, efficient, and continuing operation of the Whatcom County Ferry System within existing financial constraints. Capital improvements are scheduled based on many years of experience operating and maintaining the system while complying with applicable regulations.

Inevitably, priorities and available funds for the ferry system will change over the fourteen years projected in this program. Therefore, the program intends to be a guide indicating long-range improvements and anticipated revenues and expenditures. Strict adherence is not required.

Enacted in 1975, Revised Code of Washington (**RCW**) **36.54.015** states “The legislative authority of every county operating ferries shall prepare, with the advice and assistance of the county engineer, a fourteen-year long-range capital improvement plan embracing all major elements of the ferry system. Such plan shall include a listing of each major element of the system showing its estimated current value, its estimated replacement cost, and its amortization period.”

Table 1: Ferry System Current and Replacement Values – meets applicable requirements, showing the current value, replacement cost, and amortization periods for the vessels and facilities. The current value of the M/V Whatcom Chief is the insured value, the closest approximation of true worth. The facilities’ current value is book value; original cost less depreciation plus depreciated improvements.

RCW 36.81.121 (1) states “...the legislative authority of each county, after one or more public hearings thereon, shall prepare and adopt a comprehensive transportation program for the ensuing six calendar years....and for those counties operating ferries shall also include a separate section showing proposed capital expenditures for ferries, docks, and related facilities. Copies of the program shall be filed with the county road administration board and the secretary of transportation not more than thirty days after its adoption by the legislative authority...” Subsection (2) requires expanded information on how a county will spend all its money on the various facets of the transportation program. This RCW Section was enacted in 1961. The capital expenditure portion of Subsection (1) is satisfied by:

Table 2: Projected Revenues defines the known and/or anticipated sources of operating and capital project funding for the 14-Year Plan.

Table 3: Projected Expenditures include all other expenditures on the system that meet Subsection (2) requirements. Operational expenditures are delineated between the vessel and non-vessel costs. U.S. Coast Guard regulations currently require the ferries to be dry-docked every two years, however, to extend the life, improve reliability, and protect our capital investment Whatcom County schedules dry-docking or an a out-of-service maintenance every year for its vessel. The terminal structures are inspected

regularly as required by the National Bridge Inspection Standards administered through the Washington State Department of Transportation. The inspection report helps identify and schedule major maintenance and replacement of these facilities.

This RCW section also provides the reporting requirement and timing of program submission, as well as establishing the annual update requirement.

Additionally, the Federal Highway Administration requires all agencies within a Metropolitan Planning Organization to develop and annually update the long-range Transportation Improvement Plans and their Biennial Element. Whatcom County updates this 14-Year plan each year and incorporates the results into the Six-Year Transportation Improvement Program.

Level-of-Service

On July 24, 2018, the Whatcom County Council passed resolution #2018-026. This resolution established a level of service for the Lummi Island Ferry System. Also, the resolution enacts an action plan to achieve the recommended improvements including:

1. Vessel

- A. Balancing capacity against operating costs (fuel, personnel, etc.) to ensure affordable fares over the long run, including needs-based fares, while optimizing vehicle demand, deck space, and trip frequency to minimize wait times, the design of a 34 car vessel is in the 2022-2027 Six-Year Transportation Improvement Program. The timing of the design and construction shall coincide with the next cycle of funding by the County Road Administration Board.
- B. The design of the vessel shall accommodate all walk-on passengers during typical peak times, accommodate legal loads of vehicles per Washington State Commercial Vehicle Guide and comply with U.S. Coast Guard safety standards and the Americans with Disabilities Act.
- C. To approach the goal of a carbon-neutral vessel and provide flexibility for future electric conversion and reliability, the design of the vessel shall be a hybrid diesel-electric.

2. Terminals

- A. The design of the marine structure modifications to the Gooseberry Point terminal and Lummi Island terminal to accommodate the new vessel are included in the 2022-2027 Six-Year Transportation Improvement Program and take into consideration the plan, listed 2E-2H below, to move the Gooseberry terminal at a future date. The timing of the design and construction shall coincide with the next cycle of funding by the County Road Administration Board and the construction of the new vessel.
- B. In addition to the modifications to accommodate a new vessel, improvements to the Lummi Island terminal shall include: reconfigure the queuing lanes, install ADA restrooms, and improve bicycle and pedestrian loading by locating the queuing area as close to the vessel as possible to reduce the time required to load onto the ferry.

- C. Implement remote ferry queue monitoring.
- D. Implement self-service ticketing.
- E. Whatcom County will initiate an intergovernmental agreement with the Lummi Nation to confirm the location of the Gooseberry Point Terminal as shown on the 2015 Lummi Nation TIGER grant application. Upon the finalization of the agreement, Whatcom County Public Works shall initiate the environmental review and permitting process for the Gooseberry Point terminal relocation.
- F. Construction of the new Gooseberry Point terminal relocation is to be accomplished before the end of the Uplands Lease Agreement with the Lummi Nation (October 2046). The design shall include dual lane loading and improve bicycle and pedestrian loading by locating the queuing area as close to the vessel as possible to reduce the time required to load onto the ferry.
- G. Whatcom County shall coordinate the Gooseberry Point terminal relocation with the Lummi Nation's permitting, funding, and construction of the future Fisherman's Cove Improvements.
- H. As property becomes available, Whatcom County shall purchase lands adjacent and near the new location of the Gooseberry Point terminal. The property will be utilized for off-street queuing, parking, and passenger amenities.
- I. All infrastructures shall be designed to accommodate the 100-year sea-level rise prediction by NOAA.

3. Operations

- A. A Whatcom County ferry district may be created to increase grant opportunities. This district shall be funded by a seasonal surcharge on single cash fares for the capitalization of future vessels.
- B. The long-term improvements shall be phased over time to allow for a complete funding portfolio to leverage a variety of funding sources and mechanisms.

Minor Maintenance

General minor maintenance is continual on the ferry, terminals, aprons, approaches, and waiting facilities. The costs and extent of the work is unpredictable, and frequently problems must be repaired immediately upon detection. Routine maintenance such as building painting and roof cleaning is more predictable and scheduled in advance.

History of the Ferry System

The ferry system is the only public transportation link for the majority of Lummi Island residents and vehicles to the mainland at Gooseberry Point. In the event of an emergency ferry outage or mechanical failure, the County has contracted pedestrian-only ferry services while the vessel is being repaired.

Following is a brief chronology outlining the history of the Whatcom County Ferry System.

GP denotes work occurred at the Gooseberry Point Terminal

LI denotes work occurred at the Lummi Island Terminal

- 1926 Lummi Shore Road from Bellingham was completed and a ferry, the Central, owned by Whatcom County and large enough to hold six small Model-T Fords started making scheduled runs between Lummi Island and Gooseberry Point.
- 1929 The slightly larger Chief Kwina replaces the Central.
- 1950 Gooseberry Point terminal built (**GP**)
- 1962 The M/V Whatcom Chief begins service
- 1977 Lummi Island terminal is relocated (**LI**)
- 1981 New transfer span and tower superstructure installed (**LI**)
- 1982 Approach span trestle refurbished (**GP**)
- 1986 Transfer span, tower structures, and marine structures replaced (**GP**)
- 1993 South inner and mid-ship timber dolphins replaced/installed (**LI**)
- 1999 Emergency South outer dolphin and breakwater repair (**LI**)
- 1999 Electrical feeder replacement (**GP**)
- 2001 Major maintenance on both terminals including painting, new aprons, electrical work, new hydraulics, tower bolt replacement (**LI** and **GP**)
- 2002 20-Year Plan Phase 1 Process and report completed
- 2005 South outer timber dolphin replaced with steel structure (**LI**)
Major Status Report on the Ferry System
- 2006 Emergency bearing seat pedestal replacement (**LI**)
Parking lot improvements (**LI**)
Major corrosion repair to vessel hull
Completed design package for a 35-car replacement vessel
Completed design package for urgent electrical/structural terminal repairs
First Rate Increase in 5 years
- 2007 Bridge bearings replaced (**LI**)
Electrical repairs (**LI** and **GP**)
- 2008 Two North timber dolphins replaced with steel doughnut dolphins designed for larger 35-car ferry boat design (**LI**)
Counterweight sheaves replaced (**GP** and **LI**)
Rate increase
- 2009 Emergency North wingwall replacement (**LI**)

- Traffic Gates Installed **(LI and GP)**
Rate adjustment
- 2010 Emergency South wingwall replacement **(LI)**
- 2011 New live load hangers and pins installed **(GP)**
- 2013 Steel apron flaps replaced with rubber-coated flaps **(LI)**
Timber wingwalls replaced with steel structures **(GP)**
Terminal remote control system installed, electrical and hydraulic equipment updates **(LI)**
- 2014 Terminal remote control system installed **(GP)**
All four timber dolphins replaced with steel structures **(GP)**
- 2015 Steel apron flaps replaced with rubber-coated flaps **(GP)**
Emergency temporary repair to outer timber dolphin **(LI)**
Rate adjustment
- 2017 Electrical system overhaul **(GP)**
- 2018 Structural steel repair work including new lifting beam, new live load hangars, and replacement of corroded high-strength bolts and diagonal bracing **(GP)**
Structural steel repair work including replacement of corroded high-strength bolts and diagonal bracing **(LI)**
- 2019 Commenced public outreach and preliminary vessel and terminal designs
Completed Lummi Island Preservation Project which included application of new paint system on transfer span, tower assemblies and apron **(LI)**
- 2020 COVID 19 significantly impacted operations resulting in lost revenue, reduced ridership, and conversion to cashless fares to mitigate risk
Completed propulsion study for new vessel
Applied for federal Build Grant and state Consolidated Grant Program
Whatcom County obtained approval from USCG to modify the annual dry-docking schedule with a dockside maintenance substitution. This will be continued for future dry dockings when eligible.
Terminal structural improvements and full paint job **(LI)**

EXHIBIT "B"

Table 1

FERRY SYSTEM CURRENT AND REPLACEMENT VALUES - 2021						
VESSELS						
Current Statistics	<i>M/V Whatcom Chief</i>					
LENGTH (ft)	94					
BEAM (ft)	44					
DISPLACEMENT (tons)	78					
YEAR BUILT	1962					
CAPACITY -- Passengers	100					
CAPACITY -- Cars	20					
CURRENT INSURED VALUE - 2020	\$890,000					
TOTAL CURRENT VALUE - 2020	<u>\$890,000</u>					
Replacement Statistics						
YEAR	2024					
LENGTH (ft)	184					
BEAM (ft)	54					
DISPLACEMENT (tons)	100					
CAPACITY -- Passengers	150					
CAPACITY -- Cars	34					
REPLACEMENT VALUE ⁽¹⁾	\$18,500,000					
TOTAL - REPLACEMENT VALUE	<u>\$18,500,000</u>					
FACILITIES						
LOCATION	YEAR BUILT OR REBUILT	AMORTIZATION PERIOD END	SCHEDULED REPLACEMENT /MODIFICATION YEAR	CURRENT BOOK VALUE ⁽⁴⁾	ESTIMATED REPLACEMENT COST 2021 \$'s ⁽²⁾	
Lummi Island Terminal						
Transfer Span and Dock	1982	2022	2040	\$421,345	\$11,255,088	
Dolphins/Wingwall/Breakwater	1978	2018	2024	\$1,269,282	\$7,878,562	
Upland Facilities	1978	2018	2024	\$60,000	\$4,502,035	
Subtotal - Lummi Island Terminal				\$1,750,627	\$23,635,685	
Gooseberry Point Terminal						
Transfer Span and Dock	1987	2027	2024-2046	\$552,345	\$26,449,457	
Dolphins/Wingwall ⁽³⁾	2013, 2014	2053, 2054	2024-2046	\$2,945,405	\$3,376,526	
Upland Facilities				\$0	\$10,692,334	
Subtotal - Gooseberry Point Terminal				\$3,497,750	\$40,518,317	
TOTAL FACILITIES VALUE				\$5,248,377	\$64,154,002	
TOTAL VESSEL & FACILITIES VALUE				\$6,138,377	\$82,654,002	
NOTES:						
(1) Cost based on figures from the RAISE Grant Submission						
(2) Per 2018 LOS Alternatives Analysis by KPFF Consulting (Costs have been escalated 3% per year and represent a 2021 replacement cost of the full structure, not the retrofit for a new boat.)						
(3) Replacement requires relocation. A phased approach to relocation will include modifications to existing facilities prior to completion of the new facility.						
(4) Estimated using a 40-year life and straight-line depreciation (including depreciated improvements)						

Table 2

Lummi Island Ferry 14-Year Capital Program							
All \$ in 000's Revenues 2022-2028							
Category	2022	2023	2024	2025	2026	2027	2028
Multi-Ride Fares (3)	\$ 1,450	\$ 1,477	\$ 1,510	\$ 1,543	\$ 1,578	\$ 1,613	\$ 1,649
Single-Ride Fares (4)	363	369	377	386	394	403	412
(Memo 55% of Operating Cost) (1)	1,813	1,846	1,887	1,929	1,972	2,017	2,062
MVFT Deficit Subsidy	250	255	260	265	271	276	282
County Road Fund Operating Subsidy	1,596	1,625	1,661	1,698	1,736	1,774	1,814
County Road Fund Capital Subsidy	1,765	29	1,591	4,219	4,174		
Outside Funding	885	896	7,811	10,409	2,884		
Ferry Replacement Fund	199	201	203	205	208	211	214
CRAB Capital Ferry Funding					500	500	500
Total Revenues	6,508	4,852	13,414	18,726	11,745	4,778	4,871
Total Expenditures (2)	6,395	4,738	13,296	18,606	11,123	3,943	4,030
Net Unfunded (Funded) (5)	(113)	(115)	(117)	(119)	(622)	(835)	(841)

Lummi Island Ferry 14-Year Capital Program							
All \$ in 000's Revenues 2029-2035							
Category	2029	2030	2031	2032	2033	2034	2035
Multi-Ride Fares (3)	\$ 1,687	\$ 1,724	\$ 1,763	\$ 1,803	\$ 1,844	\$ 1,889	\$ 1,932
Single-Ride Fares (4)	422	431	441	451	461	472	483
(Memo 55% of Operating Cost) (1)	2,108	2,156	2,204	2,254	2,305	2,361	2,415
MVFT Deficit Subsidy	287	293	299	305	311	317	323
County Road Fund Operating Subsidy	1,854	1,895	1,938	1,981	2,026	2,075	2,121
County Road Fund Capital Subsidy	-	-	-	-	-	-	-
Outside Funding	-	-	-	-	-	-	-
Ferry Replacement Fund	217	220	222	224	226	228	230
CRAB Capital Ferry Funding	500	500	500	500	500	500	500
Total Revenues	4,966	5,064	5,163	5,264	5,368	5,481	5,590
Total Expenditures (2)	4,120	4,212	4,307	4,403	4,502	4,610	4,714
Net Unfunded (Funded) (5)	(846)	(852)	(856)	(861)	(866)	(871)	(876)

Note 1: Fare revenue is not calculated on ridership and is instead calculated based on a 55% recovery of expenditures as outlined in farebox recovery legislation.

Note 2: As Shown On Table 2, including capital expenditures.

Note 3: Equal to 80% of Fares

Note 4: Equal to 20% of Fares

Note 5: Unfunded ferry capital is generally covered using road fund revenue. In the case of years 2023 and 2026 grant funds are being actively sought as the road fund does not have the capacity to cover these deficits

Table 3

Lummi Island Ferry 14-Year Capital Program							
All in 000's Table 2 Expenditures 2022-2028 Page 1							
Category	2022	2023	2024	2025	2026	2027	2028
Operating Expenses							
Vessel Operations							
Personnel	1,400	1,428	1,457	1,486	1,515	1,546	1,577
Fuel & Operating Supplies	1,038	1,069	1,101	1,134	1,168	1,196	1,231
Insurance	72	74	76	79	81	90	93
Other Operating Expenses	100	104	108	112	117	122	127
Total Vessel Operations	2,610	2,675	2,742	2,811	2,881	2,953	3,027
Other Operations							
Administration	411	413	415	417	419	421	423
Parking Lots							
Lummi Island	10	10	10	11	11	11	11
Gooseberry Pt.	9	9	9	10	10	10	10
Staging Areas							
Lummi Island	28	29	30	31	32	32	33
Gooseberry Pt.	8	8	8	9	9	9	10
Docks							
Lummi Island	69	69	70	72	73	75	76
Gooseberry Pt.	401	398	406	414	422	431	439
Total Operating Expenses	3,546	3,612	3,691	3,773	3,857	3,943	4,030
Capital Expenditures							
Replacement of Whatcom Chief	-	396	7,311	9,909	965	-	-
Terminal Modifications	649	680	2,244	4,924	6,301	-	-
Lummi Island Breakwater Replacement	2,150	-	-	-	-	-	-
Relocation of Gooseberry Terminal	50	50	50				
Total Capital Program Costs	2,849	1,126	9,605	14,833	7,266	-	-
Total Costs	6,395	4,738	13,296	18,606	11,123	3,943	4,030

Table 3 (continued)

Lummi Island Ferry 14-Year Capital Program							
All in 000's Table 2 Expenditures 2029-2035 Page 2							
Category	2029	2030	2031	2032	2033	2034	2035
Operating Expenses							
Vessel Operations							
Personnel	1,608	1,640	1,673	1,707	1,741	1,776	1,811
Fuel & Operating Supplies	1,267	1,305	1,343	1,382	1,422	1,465	1,510
Insurance	95	98	101	104	107	111	114
Other Operating Expenses	132	137	142	148	154	159	163
Total Vessel Operations	3,102	3,180	3,260	3,341	3,425	3,510	3,598
Other Operations							
Administration	426	428	430	432	434	436	438
Parking Lots							
Lummi Island	11	12	12	12	13	13	13
Gooseberry Pt.	10	11	11	11	12	12	12
Staging Areas							
Lummi Island	34	35	37	38	39	40	41
Gooseberry Pt.	10	10	10	11	11	18	19
Docks							
Lummi Island	78	79	81	82	84	86	88
Gooseberry Pt.	448	457	466	476	485	495	505
Total Operating Expenses	4,120	4,212	4,307	4,403	4,502	4,610	4,714
Capital Expenditures							
Replacement of Whatcom Chief	-	-	-	-	-	-	-
Terminal Modifications							
Lummi Island Breakwater Replacement	-	-	-	-	-	-	-
Relocation of Gooseberry Terminal	-	-	-	-	-	-	-
Total Capital Program Costs	-	-	-	-	-	-	-
Total Costs	4,120	4,212	4,307	4,403	4,502	4,610	4,714