

MEMORANDUM

State of Alaska

Department of Transportation & Public Facilities
Program Development and Statewide Planning

TO: John MacKinnon
Commissioner

DATE: September 5, 2019

THRU: Ben White, Director 
Program Development and
Statewide Planning

TELEPHONE NO: (907) 465-2744

FROM: Maren Brantner 
STIP Manager

SUBJECT: Recommend Approval of AMATS
2019-2022 TIP Administrative
Modification #1 and #2

The Anchorage Metropolitan Area Transportation Solutions (AMATS) Policy Committee (PC) approved the Administrative Modification #1 and #2 to the AMATS FFY 2019-2022 Transportation Improvement Program (TIP) on May 23, 2019 and July 25, 2019.

We find that AMATS FFY 2019-2022 TIP Administrative Modification #1 and #2 meets all the requirements of US Code Title 23, Section 134, meets conformity and is fiscally constrained by the allocations made in the 2018-2021 Statewide Transportation Improvement Program (STIP).

Staff recommends a conditional approval based on the following conditions. Future TIPs will follow the appropriate amendment process for the addition and deletion of Federal Transit Administration (FTA) projects. AMATS has agreed that this process will be followed for all future TIP modifications. Your conditional approval of the AMATS FFY 2019-2022 TIP Administrative Modifications #1 and #2 is recommended and required as the statutory designee for all state transportation planning matters.

Approved:  _____ Date: 9-10-19

John MacKinnon
Commissioner

Attachments: AMATS FFY 2019-2022 TIP Admin Mod #1 and #2 Transmittal Memo and Email
AMATS FFY 2019-2022 TIP Tables

CC: Ned Conroy, Community Planner, FTA
Marie Heidemann, Statewide Planning Chief, DOT&PF
John Lohrey, Statewide Programs Team Leader, FHWA
Craig Lyon, Planner AMATS Coordinator, MOA
James Starzec, AMATS Area Transportation Planner, DOT&PF
Todd VanHove, Planning Chief, Anchorage Field Office, DOT&PF

**Table 1. Four-Year Program Summary
AMATS FFY 2019-2022 TIP Administrative Modification #2**

PROJECT LOCATION	FEDERAL FISCAL PROGRAMMING YEAR (\$ in Thousands)				4-year total	% of 4-year Non-NHS \$
	October 1 - September 30					
	2019	2020	2021	2022		
Non-National Highway System (Table 2)						
Roadway Improvements without Pavement Replacement Projects	\$10,015	\$20,764	\$14,205	\$19,283	\$64,267	52.8%
Pavement Replacement Projects (Table 7)	\$4,050	\$3,020	\$8,431	\$2,170	\$17,671	14.5%
	\$14,065	\$23,784	\$22,636	\$21,453	\$81,938	
Non-motorized (Table 3)	\$1,100	\$2,100	\$5,200	\$7,250	\$15,650	12.9%
Plans and Studies (Table 4)	\$6,050	\$1,450	\$250	\$0	\$7,750	6.4%
Congestion Mitigation & Air Quality (Table 5)	\$8,145	\$2,760	\$2,760	\$2,760	\$16,425	13.5%
Non-National Highway System Subtotal for Non-NHS roads, non-motorized & CMAQ projects	\$29,360	\$30,094	\$30,846	\$31,463	\$121,763	100.0%
STIP Non-National Highway System Allocation from ADOT&PF's CTP programs [as of 3/14]	\$29,360	\$30,094	\$30,846	\$31,463	\$121,763	
AMATS CMAQ program set aside [as of 3/14]	\$2,255	\$2,311	\$2,369	\$2,428	\$9,363	
<i>STIP Non-NHS Allocation for all projects (including CTP and CMAQ allocation)</i>	\$31,615	\$32,405	\$33,215	\$33,891	\$131,126	
Other Funded Projects within the Municipality of Anchorage						
Highway Safety Improvement Program (Table 8)	\$12,640	\$7,323	\$14,175	\$0	\$34,138	
National Highway System (Table 9)	\$26,000	\$45,000	\$25,000	\$25,000	\$115,500	
Transit Capital FTA Section 5307 to MOA (Table 10)	\$8,166	\$9,821	\$8,121	\$8,121	\$34,229	
Transit Capital FTA Section 5307 to ARRC (Table 10)	\$3,890	\$3,940	\$4,180	\$4,330	\$16,340	
Transit Capital FTA Section 5337 [State of Good Repair] to ARCC (Table 10)	\$600	\$1,700	\$4,300	\$4,300	\$10,900	
TOTAL PROGRAM ALLOCATION = (Non-NHS + NHS + HSIP Set Aside +AMATS Pave./Bridge Refurbish.+ all FTA 5307, 5337, and 5309)	\$80,656	\$97,878	\$86,622	\$73,214	\$338,370	
Other Federal Funded Projects within AMATS (Table 11)	\$71,504	\$111,280	\$77,238	\$863,000	\$1,123,022	
National Highway System Improvements Outside AMATS boundaries, but within the MOA (Table 12)	\$142,712	\$14,732	\$4,150	\$9,150	\$170,744	
TOTAL FEDERAL FUNDING For Transportation Improvements within AMATS & the MOA	\$294,872	\$223,890	\$168,010	\$945,364	\$1,632,136	

Notice to MOA Project Managers / Project Sponsors! If your project includes ITS elements and uses funds from the federal highway trust fund, prior to acquisition, construction, or implementation, you must demonstrate compliance with federal Systems Engineering Analysis requirements. Complete the ADOT&PF Systems Engineering Analysis Checklist, link below, and submit to FHWA through ADOT&PF Central Region Planning.

* Totals include match. The match is funded with State or Local funding.

Table 2. Roadway Improvements
AMATS FFY 2019-2022 TIP Administrative Modification #2

Grandfathered Project	TIP Need ID*	PROJECT LOCATION	PROJECT PHASING PLAN	FEDERAL FISCAL PROGRAMMING				Estimated funding needs after 2022	Est project cost 2019-2022	Est total project cost
				October 1 - September 30						
				2019	2020	2021	2022			
G	2159	O'Malley Road Reconstruction [Seward Highway to Hillside Drive] - Reconstruct the roadway to improve safety and capacity at intersections and improve pedestrian facilities and 3 lane section east of Lake Otis Pkwy, and 5 lane section between Seward Hwy and Lake Otis Pkwy. Landscaping @ 5% of Construction \$ = to be determined. \$1.0M in Design and \$4.3M ROW funding for Phase I in 2015. \$500,000 ROW in 2016 for Phase II. \$12.2M in U/C funding for Phase I in 2017 is A/C into 2016 for a total of \$26.7M. Phase I will receive additional funds of \$4.2M from FFY 2013 GO Bond or other non-AMATS sources of funding such as NHPP or statewide STP funds. Phase II is funded with the remainder of the FFY 2013 GO Bond supplemented by TIP funds.	2019 - ROW/C 2020 - U/C	\$3,500	\$18,320	\$8,580	\$0	\$0	\$30,400	\$30,400
				← A/C →						
G	29252	Glenn Highway Integrated Corridor Management Study [ICM] - Project will produce a final Concept of Operations for a comprehensive ICM approach to the Glenn Highway operations, to address traffic congestion, including congestion caused by crashes.	2019 - Study	\$400	\$0	\$0	\$0	\$0	\$400	\$400
G	2174	Abbott Road Rehabilitation [Lake Otis Parkway to Birch Road] - project will increase from 2 to 4 lanes and improve intersections and pedestrian facilities. Project recommended to be developed as a 3R per ADOT's Pre-Construction Manual. \$1.5M in ROW funding is A/C from 2015 into 2014. \$7.7M in U/C funding is A/C from 2017 into 2016.	2019 - U/C	\$500	\$0	\$0	\$0	\$0	\$0	\$0
	RDY00001	Fireweed Lane Rehabilitation [Spenard Road to Seward Highway] - This project would rehabilitate Fireweed Lane from Spenard Road to the Seward Highway and include a road diet, changing Fireweed from 4 lanes to 3 lanes (2 with a center turn lane). This project would also include non-motorized improvements.	2019 - D 2021 - ROW	\$1,000	\$0	\$2,500	\$0	\$6,000	\$3,500	\$9,500
	RDY00002	C Street/Ocean Dock Road Ramp and Intersection Improvements - This project would rehabilitate the C Street/Ocean Dock Road Intersection based on the alternative #3 produced from the C Street/Ocean Dock Road Reconnaissance Study completed in 2018. Project would include non-motorized and drainage improvements.	2019 - D 2021 - ROW	\$500	\$0	\$1,000	\$0	\$6,000	\$1,500	\$7,500
	RDY00003	Spenard Road Rehab [Benson Blvd to Minnesota Dr] - Project will rehabilitate to improve traffic flow. This project would also include non-motorized improvements. Project shall not include improvements to the Minnesota Intersection except ADA requirements on the east side.	2019 - D 2022 - ROW	\$1,500	\$0	\$0	\$2,500	\$40,000	\$4,000	\$44,000
	RDY00004	Dr. Martin Luther King Jr Avenue Extension - Extend Dr. Martin Luther King Jr Avenue from Elmore Road to the south end of Piper Drive. The new roadway would include non-motorized improvements.	2019 - D 2021 - ROW	\$1,500	\$0	\$1,500	\$0	\$13,000	\$3,000	\$16,000
	RDY00005	Rabbit Creek Road Reconstruction [Seward Highway to Goldenview Drive] - Project would reconstruction Rabbit Creek Road from the Seward Highway to Goldenview Drive with a center turn lane and includes non-motorized improvements.	2022 - D	\$0	\$0	\$0	\$1,500	\$10,300	\$1,500	\$11,800
	RDY00006	East 4th Ave Signal and Lighting Upgrade [A St to Ingra St] - Reconstruct the traffic signal and street lighting system along 4th Ave between A St and Ingra St. Sidewalk and curb ramps will also be replaced.	2019 - D 2020 - D/ROW 2022 - U/C	\$500	\$324	\$0	\$7,000	\$0	\$7,824	\$7,824
	RDY00007	Potter Drive Rehabilitation [Arctic Blvd to Dowling Road] - This project would rehabilitate Potter Drive from Arctic Boulevard to Dowling Road and include non-motorized improvements.	2020 -D 2022 - ROW	\$0	\$500	\$0	\$150	\$3,500	\$650	\$4,150
	RDY00008	Transportation Demand Management Projects - Funding for implementation of project #PLN0008 the Transportation Demand Management study of the University Medical District.	2022 - Implementation	\$0	\$0	\$0	\$5,003	\$0	\$5,003	\$5,003

*Projects are not listed in priority order. Project totals include match. The match is funded with either State or Local funding.

Table 2. Roadway Improvements
AMATS FFY 2019-2022 TIP Administrative Modification #2

Grandfathered Project	TIP Need ID*	PROJECT LOCATION	PROJECT PHASING PLAN	FEDERAL FISCAL PROGRAMMING				Estimated funding needs after 2022	Est project cost 2019-2022	Est total project cost
				October 1 - September 30						
				2019	2020	2021	2022			
	RDY00009	Seward Highway to Glenn Highway Connection PEL Design - Implement the projects identified as part of the PEL done for the Seward Highway to Glenn Highway Connection.	2022 - D	\$0	\$0	\$0	\$1,000	\$1,000	\$1,000	\$2,000
	RDY00010	Mountain Air Drive [Rabbit Creek Road to E. 164th Ave] - Extend Mountain Air Drive from Rabbit Creek Road to E. 164th Ave. Recommend separated pathway. Purpose: Circulation, access, and safety.	2020 - D 2022 - ROW	\$0	\$1,000	\$0	\$1,500	\$11,000	\$2,500	\$13,500
	RDY00011	Safety Improvement Program (Traffic Count Support) 2019-2022 - Collect traffic data within the AMATS area completed by the ADOT&PF Central Region Highway Data Section and MOA Traffic Department Data Section.	2019-22 Programming	\$615	\$620	\$625	\$630	\$0	\$2,490	\$2,490
	RDY00012	Pavement Replacement Program - This program will provide a single funding source for several pavement overlay and/or replacement projects. Improvements are also expected to include ADA and some existing curb and sidewalk repair. May include those projects listed in Table 7 or other priorities.	2019-22 Programming	\$4,050	\$3,020	\$8,431	\$2,170	\$20,000	\$17,671	\$37,671
		The contingency list of projects for each year will consist of the following year's projects.	ANNUAL TOTALS	\$14,065	\$23,784	\$22,636	\$21,453	\$110,800	\$81,938	\$192,738
		STIP ALLOCATIONS FOR ALL TYPES OF NON-NHS PROJECTS = CTP.		\$29,360	\$30,094	\$30,846	\$31,463	\$24,955	\$121,763	
		Approximate percentage (%) for roadways		34%	69%	46%	61%	4-year average	53%	
		Approximate percentage (%) for pavement replacement projects		14%	10%	27%	7%	4-year average	15%	

*Projects are not listed in priority order. Project totals include match. The match is funded with either State or Local funding.

**Table 3. Non-Motorized
AMATS FFY 2019-2022 TIP Administrative Modification #2**

Grandfathered Project	TIP Need ID*	PROJECT LOCATION	PROJECT PHASING PLAN	FEDERAL FISCAL PROGRAMMING YEAR (Sin Thousands)					Estimated funding needs after 2022	Est project cost 2019-2022	Est total project cost
				October 1 - September 30							
				Carryover	2019	2020	2021	2022			
G	29257	Dimond Center Pedestrian and Transit Improvements - Multiphase effort focusing on pedestrian, bicycle, transit and travel way improvements. Primary improvements includes sidewalk connectivity, bicycle infrastructure, pedestrian and bicycle signals/signage, traffic calming techniques, lighting and other safety related infrastructure to ensure compliance with ADA.		\$2,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0
G	26628	Bicycle Plan Project Implementation - Project would sign, stripe, and mark bike lanes or shoulders on existing roadways within the AMATS boundary area to create a safe, connected network of bicycle facilities as identified in the Anchorage Bicycle plan. Project consists of nominated projects Core Bicycle Network Phase I-III.		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
G	26629	Pedestrian Plan Project Implementation - Project would improve pedestrian safety and construct missing links as identified in 2007 Anchorage Pedestrian Plan. FFY16 funded with non-AMATS sources.		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	NMO00001	Downtown Trail Connection - Project will construct a connection between the Tony Knowles Coastal Trail to the Ship Creek Trail in downtown Anchorage.	2019 - D 2021 - ROW	\$0	\$300	\$0	\$1,000	\$0	\$4,000	\$1,300	\$5,300
	NMO00002	Fish Creek Trail Connection [Northern Lights Blvd to the Tony Knowles Coastal Trail] - This project will construct a connection of the Fish Creek Trail to the Tony Knowles Coastal Trail.	2020 - D 2022 - ROW	\$0	\$0	\$500	\$0	\$500	\$3,000	\$1,000	\$4,000
	NMO00003	Tudor Road Pathway Connection [Chugach Foothills Connector Phase II to Regal Mountain Drive] - This project would construct a connection from the phase II of the Chugach Foothills Connector to Regal Mountain Drive.	2019 - D 2021 - C	\$0	\$0	\$0	\$500	\$0	\$0	\$500	\$500
	NMO00006	Potter Marsh Improvements - This project would make improvements to the Potter Marsh southern parking facility.	2020 - D 2022 - U/C	\$0	\$0	\$250	\$0	\$1,250	\$0	\$1,500	\$1,500
	NMO00007	Old Seward Highway Pathway [DeArmoun Road to Rabbit Creek Road] - This project would construct a pathway along Old Seward Highway from DeArmoun Road and connect to the termini of the non-motorized improvement(s) done as part of the Rabbit Creek Road [Seward Highway to Goldenview Drive] Reconstruction project.	2019 - D 2021 - ROW	\$0	\$500	\$0	\$1,000	\$0	\$2,500	\$1,500	\$4,000
	NMO00008	Anchorage Areawide Pathway and Trails Pavement Replacement - This program will provide a single funding source for several pathway/trail pavement replacement projects. May include those projects listed in Table 7 or other priorities.	2019-22 - D/U/C	\$0	\$300	\$1,350	\$2,700	\$5,500	\$10,000	\$9,850	\$19,850
		The contingency list of projects for each year will consist of the following year's projects.	Section Totals	\$2,000	\$1,100	\$2,100	\$5,200	\$7,250	\$19,500	\$15,650	\$35,150
		STIP ALLOCATIONS FOR ALL TYPES OF NON-NHS PROJECTS = CTP			\$29,360	\$30,094	\$30,846	\$31,463	4 year total=	\$121,763	
		Approximate percentage (%) for all Non-Motorized projects			4%	7%	17%	23%	4-year Avg=	12.9%	

*Projects are not listed in priority order. **Project totals include match. The match is funded with either State or Local funding.**

Table 4. Plans and Studies
AMATS FFY 2019-2022 TIP Administrative Modification #2

Grandfathered Project	TIP Need ID*	PROJECT LOCATION	PROJECT PHASING PLAN	FEDERAL FISCAL PROGRAMMING YEAR (\$in Thousands)				Estimated funding needs after 2022	Est project cost 2019-2022	Est total project cost
				October 1 - September 30						
				2019	2020	2021	2022			
Studies and Plans										
G	PLN00001	AMATS MTP - Funding for the Municipality of Anchorage AMATS Metropolitan Transportation Plan.	2020 - Plan	\$0	\$800	\$0	\$0	\$800	\$800	\$1,600
	PLN00002	TSMO Strategic Implementation Plan - This study will develop the AMATS Transportation Systems Management & Operations (TSMO) strategic plan, and will provide overall direction, goals, and strategic outcomes for the program. The project will translate AMATS strategic elements (including 2040 MTP Implementation Plan, ITS Implementation Plan, CMP Implementation Plan, and Transportation Demand Management Plan) into a combined Five-Year TSMO implementation plan document that will provide overall direction and strategic outcomes, with specific projects with related cost estimates, services and activities.	2020 - Study	\$0	\$500	\$0	\$0	\$0	\$500	\$500
	PLN00003	Seward Highway to Glenn Highway Connection Planning and Environmental Linkages (PEL) Study [20th Ave to Glenn Hwy/Airport Heights Intersection] - The intent of this PEL is to define a vision for the future of this connection, identify environmental and resource concerns and opportunities in the study area, and use the information to develop reasonable alternatives through consultation with the affected agencies and the public.	2019 - Study	\$5,000	\$0	\$0	\$0	\$0	\$5,000	\$5,000
	PLN00004	2040 Secondary Street Deficiency Analysis and Prioritization - This project will conduct an area-specific review of existing collector and local street networks that connect or run parallel to major arterials in the Anchorage Bowl. This review will identify deficiencies and needed additional local and collector street connections, intersection and access improvements, right-of-way widths, and pedestrian connections.	2019 - Study	\$0	\$150	\$0	\$0	\$0	\$150	\$150
	PLN00005	Chugach Way Area Transportation Element Study - This project would provide recommendations on the transportation elements developed as part of the Chugach Way Small Area Plan.	2019 - Study	\$150	\$0	\$0	\$0	\$0	\$150	\$150
	PLN00006	92nd Ave Extension Reconnaissance Study - This project will look at the challenges with extending 92nd Ave from Old Seward Highway to King Street and offer recommendations based on safety, congestion, non-motorized improvements, and freight mobility.	2021 - Study	\$0	\$0	\$250	\$0	\$0	\$250	\$250
	PLN00007	Port of Alaska Multimodal Improvements Study - This project will study and make recommendations on how to improve the Ocean Dock Road connection to the Port of Alaska.	2019 - Study	\$400	\$0	\$0	\$0	\$0	\$400	\$400
	PLN00008	University Medical District Transportation Demand Management (TDM) Study - Project will complete a TDM study, evaluating transportation demand throughout the entire University Medical District and make recommendations for funding future project.	2019 - Study	\$500	\$0	\$0	\$0	\$0	\$500	\$500
		The contingency list of projects for each year will consist of the following year's projects.	ANNUAL TOTALS	\$6,050	\$1,450	\$250	\$0	\$800	\$7,750	\$8,550
			STIP ALLOCATIONS FOR ALL TYPES OF NON-NHS PROJECTS = CTP	\$29,360	\$30,094	\$30,846	\$31,463	4 year total=	\$121,763	
Notice to MOA Project Managers/Project Sponsors! If your project includes ITS elements and uses funds from the federal highway trust fund, <u>prior to acquisition, construction, or implementation</u> , you must demonstrate compliance with federal Systems Engineering Analysis requirements. Complete the ADOT&PF Systems Engineering Analysis Checklist and submit to FHWA through ADOT&PF Central Region Planning.										

*Projects are not listed in priority order. **Project totals include match. The match is funded with either State or Local funding.**

**Table 5. Congestion Mitigation Air Quality (CMAQ)
AMATS FFY 2019-2022 TIP Administrative Modification #2**

Grandfathered Project	TIP Need ID*	PROJECT LOCATION	PROJECT PHASING PLAN	FEDERAL FISCAL PROGRAMMING YEAR (in Thousands)				Estimated funding needs after 2022	Est project cost 2019 - 2022	Est total project cost
				October 1 - September 30						
				2019	2020	2021	2022			
		SIP-Mandated Projects and Programs								
	CMQ00001	Anchorage Ridesharing/Transit Marketing 2019-2022 - This project funds the Municipal Share-A-Ride program which promotes, subsidizes, and contract manages an area-wide vanpool commuter service; and a comprehensive public transportation marketing effort.	2019-2022 Programming	\$900	\$900	\$900	\$900	\$0	\$3,600	\$3,600
	CMQ00002	Air Quality Public & Business Awareness Education Campaign 2019-2022 - The goal of this program is to further inform the public about air quality issues and what steps people may take to reduce pollution.	2019-2022 Programming	\$300	\$300	\$300	\$300	\$0	\$1,200	\$1,200
			Section Totals	\$1,200	\$1,200	\$1,200	\$1,200	\$0	\$4,800	\$4,800
		STIP Non-National Highway System Allocation from ADOT&PF's CMAQ program [as of 3/14]		\$1,200	\$1,200	\$1,200	\$1,200	\$1,200	\$8,400	
		Programs								
	CMQ00003	Arterial Roadway Dust Control 2019-2022 - Magnesium chloride (MgCl2) dust palliative will be applied to approximately 70 miles of high volume State and Municipal roadways prior to and after spring sweeping. FFY16 funded with non-AMATS sources.	2019-2022 Implementation	\$200	\$200	\$200	\$200	\$0	\$800	\$800
	CMQ00004	Traffic Control Signalization 2019-2022 - Program would provide proactive efficiencies with better/more updated signal timing plans to address intersection congestion and improve air quality. Funding supports development of Traffic Management Center and emergency vehicle and low priority transit signal preemption.	2019-2022 Programming	\$350	\$350	\$350	\$350	\$0	\$1,400	\$1,400
	CMQ00005	Bus Stop & Facility Improvements - This projects funds the upgrade of facility and bus stop sites to meet both the federally mandated Americans with Disabilities Act [ADA] requirements and the operational needs. Typical bus stop improvements include bus shelters, benches, trash receptacles, landscaping, grading, paving, utility relocations, lighting, curb adjustments, drainage, constructing paths, and construction/reconstruction of turnouts. Typical facility improvements include upgrades, rehabilitation, and construction/reconstruction not limited to safety, security, facility equipment, structures, underground storage tanks, parking lots, sidewalks, and drainage. Table 5 of CMAQ funds supplement FTA funds in project 4, 8, and 11 on Table 10. FFY19-2021 AMATS funding is supplemented with CMAQ funding outside the AMATS allocation.	2019-2022 Implementation	\$2,989	\$1,265	\$1,321	\$1,379	\$4,509	\$11,463	\$15,972
	CMQ00006	Multimodal Trip Planner and Smartphone Application - project will provide for operation of multimodal trip planner and smartphone app to provide carpool, vanpool, and bicycle commuter matching, transit and shuttle schedules, and multimodal directions.	2019-2022 Implementation	\$70	\$0	\$0	\$0	\$0	\$70	\$70
	CMQ00007	Transit Fleet Replacement Operations - This project provides funding for replacement and potential operational assistance of the Public Transportation Department. The fleet consists of 13-passenger vans, MV-1, 22' and 40' buses that provide service to RideShare, AnchorRIDES, and People Mover. Vehicles will be replaced based on the FTA defined useful life and the People Mover Fleet Management Plan. Table 5 of CMAQ funds supplement FTA funds in project 2, 6, and 10 on Table 10. FFY19-2021 AMATS funding is supplemented with CMAQ funding outside the AMATS allocation. \$1.75M in 2019 funding should be prioritized toward electric fleet vehicles if at all possible.	2019-2022 - Purchase	\$5,536	\$2,000	\$2,000	\$2,000	\$6,000	\$17,536	\$23,536
			Section Totals	\$8,145	\$2,760	\$2,760	\$2,760	\$9,151	\$31,269	\$40,420
		The contingency list of projects for each year will consist of the following year's projects.	ANNUAL TOTALS	\$8,145	\$2,760	\$2,760	\$2,760	\$9,151	\$31,269	\$40,420
		STIP ALLOCATIONS FOR ALL TYPES OF NON-NHS PROJECTS = CTP		\$29,360	\$30,094	\$30,846	\$31,463	4 year total=	\$121,763	
		Approximate percentage (%) for all Congestion Mitigation/Air Quality (CMAQ) projects		28%	9%	9%	9%	4-year Avg=	13.5%	
Notice to MOA Project Managers/Project Sponsors! If your project includes ITS elements and uses funds from the federal highway trust fund, prior to acquisition, construction, or implementation, you must demonstrate compliance with federal Systems Engineering Analysis requirements. Complete the ADOT&PF Systems Engineering Analysis Checklist and submit to FHWA through ADOT&PF Central Region Planning.										

*Projects are not listed in priority order. Project totals include match. The match is funded with either State or Local funding.

**Table 6. Transportation Alternatives Program
AMATS FFY 2019-2022 TIP Administrative Modification #2**

Grandfathered Project	TIP Need ID*	PROJECT LOCATION	PROJECT PHASING PLAN	FEDERAL FISCAL PROGRAMMING YEAR (\$in Thousands)				Estimated funding needs after 2022	Est project cost 2019-2022
				October 1 - September 30					
				2019	2020	2021	2022		
G	TAP00001	Chugach Foothills Connector, Phase II - Project will construct a multi-use path on Tudor Road between Regal Mountain Drive and Campbell Airstrip Road.	2019 - D 2020 - C	\$200	\$1,700	\$0	\$0	\$0	\$1,900
G	TAP00002	AMATS Mountain View Drive Pathway Reconstruction - Project will reconstruct a multi-use pathway connecting Peterkin Avenue with Mountain View Drive between Bliss Street and North Bunn Street.	2019 - U/C	\$750	\$0	\$0	\$0	\$0	\$750
G	TAP00003	Anchorage Arewide Trails Rehabilitation - Project will rehabilitate the Fish Creek trail from Kiwanis Fish Creek Park to Barbara Street.	2019 - U/C	\$0	\$0	\$0	\$0	\$0	\$0
Section Totals				\$950	\$1,700	\$0	\$0	\$0	\$2,650

*Programmed amounts includes a 20% match. *Projects are not listed in priority order. **Project totals include match. The match is funded with either State or Local funding.**

**Table 7. Pavement Replacement Program
AMATS FFY 2019-2022 TIP Administrative Modification #2**

2019 - 2022 TIP, Pavement Replacement Projects	
	Project Location
1	Airport Heights Road - Debarr Road to Glenn Hwy
2	Boundary Ave - Boniface Pkwy to Oklahoma
3	Brayton Drive - Dearmoun Road to - O'Malley Road
4	Elmore Rd - Huffman Rd to O'Malley Rd
5	Fireweed Ln - Spenard Road to Arctic Blvd
6	Hiland Rd - MP 0 to MP 3.2
7	Post Rd - 3rd Ave to Reeve Blvd
8	Rabbit Creek Rd - Old Seward Hwy to Hillside Dr
9	Upper Huffman - Hillside Dr to Toilsome Hill Dr
10	Reeve Blvd - 5th Ave to Post Road
11	DeArmoun Road - Hillside Drive to Canyon Road
	*Projects not in priority order
	Pavement Replacement Annual Totals shown in Table 2

2019 - 2022 TIP, Pathway and Trail Pavement Replacement Projects	
	Project Location
1	20th Ave Sidewalk - Bragaw Street to Tikishla Park
2	Debarr Road - Boniface to Muldoon (southside sidewalk)
3	Airport Heights Road - Debarr Road to Glenn Hwy
4	Northern Lights Blvd - Lois Drive to Minnesota Drive (southside pathway)
5	Jewel Lake Pathway - Raspberry Road to International Airport Road
	*Projects not in priority order
	Pavement Replacement Annual Totals shown in Table 3

**Table 8. Highway Safety Improvement Program (HSIP)
AMATS FFY 2019-2022 TIP Administrative Modification #2**

STIP Need ID	TIP Need ID*	PROJECT LOCATION	PROJECT PHASING PLAN	FEDERAL FISCAL PROGRAMMING YEAR (\$ in Thousands)				Estimated funding needs after 2022	Est project cost 2019- 2022	Est total project cost
				October 1 - September 30						
				2019	2020	2021	2022			
6087	HSP0001	Jewel Lake Road: 88th St to Strawberry TWLTL (Two way left turn lane)	2015 - D 2017 - R 2018 - U/C	\$0	\$0	\$0	\$0	\$0	\$0	\$0
6087	HSP0002	CR Traffic Safety Corridor Left Turn Lanes	2019 - U/C	\$2,700	\$0	\$0	\$0	\$0	\$2,700	\$2,700
6087	HSP0003	Minnesota / Seward Hwy / Tudor / Muldoon Lighting Improvements	2018 - D/R 2019 - U/C	\$5,590	\$0	\$0	\$0	\$0	\$5,590	\$5,590
6087	HSP0004	Tudor Rd at C St and Dimond Blvd at C St - Right Turn Channelization	2017 - D/R 2020 - U/C	\$0	\$6,733	\$0	\$0	\$0	\$6,733	\$6,733
6087	HSP0005	Minnesota Dr Weaving Lane	2017 - D 2019 - U/C	\$3,519	\$0	\$0	\$0	\$0	\$3,519	\$3,519
6087	HSP0006	Minnesota Dr Guide Sign Upgrades	2017 - D/U 2019 - C	\$321	\$0	\$0	\$0	\$0	\$321	\$321
6087	HSP0007	Seward Hwy Rockfall Mitigation	2018/2019 - D 2021 - C	\$500	\$0	\$14,175	\$0	\$0	\$14,675	\$14,675
6087	HSP0008	Arctic Blvd Railroad Signal Relocation	2019 - D 2020 - U	\$10	\$590	\$0	\$0	\$0	\$600	\$600
Total				\$12,640	\$7,323	\$14,175	\$0	\$0	\$34,138	\$34,138

*Projects are not listed in priority order. Project totals include match. The match is funded with State funding.

**Table 9. National Highway System (NHS)
AMATS FFY 2019-2022 TIP Administrative Modification #2**

STIP Need ID	TIP Need ID*	PROJECT LOCATION	PROJECT PHASING PLAN	FEDERAL FISCAL PROGRAMMING YEAR (\$in Thousands)				Estimated funding needs after 2021	Est project cost 2018- 2021	Est total project cost
				October 1 - September 30						
				2018	2019	2020	2021			
27470	NHS0001	Anchorage Glenn Highway Muldoon Road Interchange Reconstruction - Reconstruct interchange at Muldoon and Glenn Highway.	2018 - C	\$0	\$0	\$0	\$0	\$0	\$0	\$0
29730	NHS0002	Seward Highway Dowling Road Interchange Rehabilitation - Project will improve the Dowling Road roundabouts, the associated highway ramps, and make other improvements as needed to enhance safety and increase traffic flow.	2018 - D	\$1,000	\$0	\$0	\$0	\$14,000	\$1,000	\$15,000
29731	NHS0003	Seward Highway O'Malley Road to Dimond Boulevard Reconstruction - This project funds the design and ROW purchase for the final segments of this project reconstructing the Seward Highway from Dimond Boulevard to O'Malley Road and includes an underpass to connect 92nd Avenue (west of the Seward Highway) with Academy Drive (east of the Seward Highway), and construction is funded under Need ID 30691.	2019 - D/ROW	\$0	\$20,000	\$0	\$0	\$0	\$20,000	\$20,000
30691	NHS0004	Seward Highway O'Malley Road to Dimond Boulevard Reconstruction Phase II - This is the second phase of the Seward Highway project, and will reconstructs the Seward Highway from Dimond Boulevard to O'Malley Road. Project includes an underpass to connect 92nd Avenue (west of the Seward Highway) with Academy Drive (east of the Seward Highway). The design and first construction phase are under Need ID 29731.		\$0	\$0	\$0	\$0	\$76,500	\$0	\$76,500
18924	NHS0005	Pavement and Bridge Rehabilitation - Crack sealing, surface treatment drainage, signage, guardrail, illumination, and other refurbishments to prolong the life of road pavement and bridges and their safety related structures. Project includes NHS Lane Delineators, Destination & Distance Signing, Pavement Markings and Signalization, Abandoned Vehicle Program, Road Surfacing and Transfer, Road Surface Treatments, and improve curb ramps to meet ADA standards (in coordination with Need ID 30397). The scope does not include landscaping or other elements inconsistent with a pavement preservation focus. This is a DOT&PF central region wide program with approximately \$25M going to projects within the AMATS area on an annual basis with a majority going to the NHS.	2018-2021+ - All Phases	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$100,000	\$125,000
The contingency list of projects for each year will consist of the following year's projects.				\$26,000	\$45,000	\$25,000	\$25,000	\$115,500	\$121,000	\$236,500

*Projects are not listed in priority order. Project totals include match. The match is funded with State funding.

**Table 10. Transit
AMATS FFY 2019-2022 TIP Administrative Modification #2**

STIP Need ID	TIP Need ID*	PROJECT LOCATION	PROJECT PHASING PLAN	FEDERAL FISCAL PROGRAMMING YEAR (\$in Thousands)					Estimated funding needs after 2022	Est project cost 2019- 2022	Est total project cost
				October 1 - September 30							
				Carryover	2019	2020	2021	2022			
19458	TRN00001	Preventative Maintenance/Capital Maintenance - FTA [Federal Transit Administration] allows grantees to use capital funds for overhauls and preventative maintenance. FTA assistance for those items is based on a percentage of annual vehicle maintenance costs.	2019 - 2022 - Implementation	\$0	\$4,500	\$4,500	\$4,500	\$4,500	\$13,500	\$18,000	\$31,500
19462	TRN00002	Fleet Replacement/Expansion - This project funds the fleet expansion and replacement for the AnchorRIDES paratransit service, as well as the fixed route fleet.	2019 - 2022 - Implementation	\$0	\$200	\$200	\$200	\$200	\$600	\$800	\$1,400
19464	TRN00003	ADA Complementary Paratransit Services - Costs associated with ADA paratransit programs are eligible for this funding. The project funds the ADA paratransit eligibility process with a transportation skills assessment and a travel training program for people who could benefit from individualized instruction regarding how to independently ride People Moved buses. May also be used to purchase AnchorRIDES trips.	2019 - 2022 - Implementation	\$0	\$400	\$400	\$400	\$400	\$1,200	\$1,600	\$2,800
19457	TRN00004	Bus Stop Improvements/1% Section 5307 Transit Improvements - This project funds the upgrade of bus stop sites to meet both the federally-mandated Americans with Disabilities Act [ADA] requirements and the operational needs. Typical improvements include bus shelters, benches, trash receptacles, landscaping, grading, paving, utility relocations, lighting, curb adjustments, drainage, constructing paths, and construction/reconstruction of turnouts. Table 10 FTA funds supplement CMAQ funds for the Bus Stop & Facility Improvements project in Table 5.	2019 - 2022 - Implementation	\$0	\$25	\$25	\$25	\$25	\$75	\$100	\$175
19463	TRN00005	ITS/Automated Operating System/Management Information Systems - This projects funds information systems necessary for efficient management of the public transportation system. Typical projects include: Geographical Information Systems [GIS] capabilities, upgrades to the automated maintenance system, refueling, and inventory system; a new computerized dispatch system; and upgrades to the scheduling/run-cutting process, customer information and telephone communications system, and desktop computers. This project also funds staff and capital resources to provide project oversight and capital for ITS for all modes of public transportation services. Provide day to day operational support to all ITS projects.	2019 - 2022 - Purchase	\$0	\$1,700	\$1,700	\$0	\$0	\$0	\$3,400	\$3,400
19459	TRN00006	Fleet Improvement/Support Equipment/Support Vehicle - This project funds improvements to existing transit and paratransit fleets. Typical projects include a ticket reader and issue attachment, which issues passenger passes on the bus; security systems; transit/signal improvements for headway enhancements; mechanical equipment and other improvements for facilities; mobile display terminals' and vehicle communications, radios and locations systems. This project also funds the purchase of replacement vehicles and equipment to support operation of the transit system. Typical purchases include pickup racks, maintenance trucks with special equipment, supervisor vehicles, shift change vehicles, fork lifts, sweepers, and bus access snow removal equipment.	2019 - 2022 - Purchase	\$0	\$145	\$500	\$500	\$500	\$1,500	\$1,645	\$3,145
29264	TRN00008	Transit Centers/Support Facilities - This project supports an on-going effort to provide major transit facilities key areas of the city and major destinations. The Anchorage Comprehensive Plan and 2040 Land Use Plan (LUP) identified neighborhood, town, regional commercial, and city centers that function as focal points for community activities with a mix of retail, residential, and public services and facilities. Anchorage Talks Transit coordinated with the LUP and implemented a frequent bus network along transit supportive development corridors. These corridors should provide pedestrian connections to surrounding neighborhoods and transit. Existing and future facility improvements along these corridors and in areas like Midtown, Downtown, U-Med, Dimond Center and Muldoon, are vital to the implementation of these community planning documents.	2019 - 2022 - Implementation	\$0	\$150	\$750	\$750	\$750	\$2,250	\$2,400	\$4,650
	TRN00009	Operating Assistance - Section 5307 operating assistance for fixed route, demand responsive, and/or Microtransit public transit service.	2019 - 2022 - Implementation	\$0	\$300	\$1,000	\$1,000	\$1,000	\$3,000	\$3,300	\$6,300
subtotal FTA Section 5307 & 5340				\$0	\$7,420	\$9,075	\$7,375	\$7,375	\$22,125	\$31,245	\$53,370

*Projects are not listed in priority order. Project totals include match. The match is funded with State or Local funding.

Table 10. Transit
AMATS FFY 2019-2022 TIP Administrative Modification #2

STIP Need ID	TIP Need ID*	PROJECT LOCATION	PROJECT PHASING PLAN	FEDERAL FISCAL PROGRAMMING YEAR (\$in Thousands)					Estimated funding needs after 2022	Est project cost 2019-2022	Est total project cost
				October 1 - September 30							
				Carryover	2019	2020	2021	2022			
19119	TRN00010	Section 5310 Enhanced Mobility of Seniors & Individuals w/ Disabilities. - Projects may include purchasing buses and vans; wheelchair lifts, ramps, and securement devices; transit-related information technology systems including scheduling/routing/one-call systems; mobility management programs; and acquisition of transportation services under a contract, lease, or other arrangement. Other activities may include travel training; volunteer driver programs; building an accessible path to a bus stop, including curb-cuts, sidewalks, accessible pedestrian signals or other accessible features; improving signage or way-finding technology; providing same day service or door-to-door service; purchasing vehicles to support new accessible taxi, ride-sharing and/or vanpooling programs; and mobility management programs.		\$0	\$208	\$208	\$208	\$208	\$624	\$832	\$1,456
27969	TRN00011	Section 5339 Bus and Bus Facilities Program - This program includes capital projects to replace, rehabilitate and purchase buses, vans, and related equipment, and to construct bus-related facilities, including technological changes or innovations to modify low or no emission vehicles or facilities.		\$0	\$538	\$538	\$538	\$538	\$1,614	\$2,152	\$3,766
subtotal FTA section 5307, 5310, 5316, 5317, 5340 Transit funding to the MOA				\$0	\$8,166	\$9,821	\$8,121	\$8,121	\$24,363	\$34,229	\$58,592
Alaska Railroad - FTA Section 5307 (Rail Tier) Funds											
19634	10	1% Transit Security on the Alaska Railroad Corporation projects	2019 - 2022 - Implementation	\$0	\$120	\$120	\$150	\$150	\$450	\$540	\$990
19634	11	Preventive Maintenance - This project partially funds statewide maintenance costs of passenger vehicle railcars and locomotives. Preventive maintenance is defined as all activities, supplies, materials, labor, services and associated costs required to preserve or extend the functionality and serviceability of the asset.	2019 - 2022 - Implementation	\$0	\$3,450	\$3,500	\$3,500	\$3,500	\$87,500	\$13,950	\$101,450
19634	12	1% Associated Transit Enhancements - can include benches, landscaping, and other transit related amenities.	2019 - 2022 - Implementation	\$0	\$120	\$120	\$130	\$130	\$410	\$500	\$910
19634	13	Track Rehab - Rail and tie rehabilitation within AMATS boundaries.	2019 - 2022 - Implementation	\$0	\$200	\$200	\$400	\$550	\$1,500	\$1,350	\$2,850
19634		Radio System - Replace and/or upgrade radio system equipment and communication components.	2019 - 2022 - Implementation	\$0	\$0	\$0	\$0	\$290	\$750	\$290	\$1,040
subtotal FTA Section 5307 (Rail Tier) Transit funding to Railroad				\$0	\$3,890	\$3,940	\$4,180	\$4,330	\$90,610	\$16,340	\$106,950
Alaska Railroad - FTA Section 5337 (State of Good Repair) Funds											
19634	14	Track Rehab - Rail and tie rehabilitation within AMATS boundaries.	2019 - 2022 - Implementation	\$0	\$100	\$0	\$400	\$400	\$1,200	\$900	\$2,100
19634	15	Preventive Maintenance - This project partially funds statewide maintenance costs of passenger vehicle railcars and locomotives. Preventive maintenance is defined as all activities, supplies, materials, labor, services and associated costs required to preserve or extend the functionality and serviceability of the asset.	2019 - 2022 - Implementation	\$0	\$500	\$1,700	\$3,900	\$3,900	\$9,500	\$10,000	\$19,500
subtotal FTA Section 5337 (SGR) funding to Railroad				\$0	\$600	\$1,700	\$4,300	\$4,300	\$10,700	\$10,900	\$21,600
Alaska Railroad - FTA Section 5337 (SGR) Funds											
subtotal FTA Section 5337 funding to Railroad				\$0	\$600	\$800	\$4,300	\$4,300	\$17,400	\$10,000	\$27,400
subtotal FTA Sections 5307 (Rail Tier) & 5337 Transit funding to ARRC				\$0	\$4,490	\$5,640	\$8,480	\$8,630	\$101,310	\$27,240	\$128,550
Total Transit Program (FTA {5307+5337})				\$0	\$12,656	\$15,461	\$16,601	\$16,751	\$125,673	\$61,469	\$187,142
<i>The Municipality of Anchorage's Transportation Improvement Program (TIP) process is used to satisfy the public participation process of the Program of Projects (POP) that is required in U.S.C. Section 5307. The POP as presented is the proposed Program of Projects and will also be the final Program of Projects unless amended.</i>											

*Projects are not listed in priority order. Project totals include match. The match is funded with State or Local funding.

Table 11. Other Federal, State, and Local Funded Projects within the AMATS Area
AMATS FFY 2019-2022 TIP Administrative Modification #2

STIP Need ID	TIP Need ID*	PROJECT LOCATION	PROJECT PHASING PLAN	Funding Source	FEDERAL FISCAL PROGRAMMING YEAR (Sin Thousands)					Estimated funding needs after 2021	Est project cost 2018 - 2021	Est total project cost
					October 1 - September 30							
					Carryover	2018	2019	2020	2021			
	OFS00001	Anchorage Port Modernization Project (APMP). Deducted from the 2019 number is \$20M received from the state.	2018-2021 Programming	State GF GO Bond	\$108	\$70,000	\$53,000	\$74,000	\$863,000	\$0	\$1,060,108	\$1,060,108
19482	OFS00002	AK094 & AK105 - Construction & Road Improvements @ APU.	2018 - D 2019 - ROW/U 2020 - C	Earmark	\$0	\$1,004	\$1,030	\$3,238	\$0	\$0	\$5,272	\$5,272
26849	OFS00003	People Mover Transportation, Community, and System Preservation Program Winter City Pedestrian Safety & Bus Stop Improvements- project will improve safety, accessibility, and maintenance of existing pedestrian facilities and bus stops during winter months. [Federal share only]		FHWA Grant	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
28471	OFS00004	Campbell Tract Facility Alternate Entrance Alignment - Relocate the CTF entrance road 260' to align with East 68th Avenue.	2018/19 - D 2019 - C	FLAP	\$0	\$500	\$3,000	\$0	\$0	\$0	\$3,500	\$3,500
	OFS00005	Buses and Bus Facilities Infrastructure Investment Project - Replace and upgrade the information technology system for the Public Transportation Department. This project will improve the reliability of the bus system and help the city meet growing demand for transit.		FTA GRant	\$0	\$0	\$4,250	\$0	\$0	\$0	\$4,250	\$4,250
	OFS00006	Glenn Highway/Hiland Road to Artillery Road Reconstruction - Add a 3rd lane to both northbound and southbound Glenn Highway. Improvements at Hiland Road and Artillery Road Interchanges on the Glenn Highway. Replace Eagle River bridges with capacity for pathway and future HOV lanes. First construction phase will be northbound improvements. FFY 2013 GO Bond funding = \$35M.	2019 - C	State Fund	\$0	\$0	\$50,000	\$0	\$0	\$0	\$50,000	\$50,000
					\$108	\$71,504	\$111,280	\$77,238	\$863,000	\$0	\$1,123,022	\$1,123,022

*Projects are not listed in priority order. Project totals include match. The match is funded with State or Local funding.

Table 12. NHS/Non-NHS Improvements outside AMATS within the MOA
AMATS FFY 2019-2022 TIP Administrative Modification #2

STIP Need ID	TIP Need ID*	PROJECT LOCATION	PROJECT PHASING PLAN	Funding Source	FEDERAL FISCAL PROGRAMMING YEAR (in Thousands)					Est total funding needs after 2021	Est project cost 2018-2021	Est total project cost
					October 1 - September 30							
					Carryover	2018	2019	2020	2021			
11439	OUT0001	Whittier Tunnel: Maintenance and Operations - Federal-aid eligible portion of Whittier tunnel and approaches, maintenance and operations.	2018-2021 - C	NHS	\$0	\$4,150	\$4,150	\$4,150	\$4,150	\$4,150	\$16,600	\$20,750
28330	OUT0002	Drainage Improvements for the Anton Anderson Memorial (Whittier) Tunnel - This project will provide driving surface and drainage improvements and install traffic control devices.	2018 - U/C	NHS	\$0	\$14,600	\$0	\$0	\$0	\$0	\$14,600	\$14,600
31496	OUT0003	Anton Anderson Memorial (Whittier) Tunnel - Project consists of improvement to the driving surface and rail bed as well as replacement of toll facility and other equipment.	2019 - D 2021 - C	NHS	\$0	\$0	\$500	\$0	\$5,000	\$0	\$5,500	\$5,500
11925	OUT0004	Seward Highway MP 75-90 Ingram Creek to Girdwood Road and Bridge Rehabilitation - The project includes rehabilitation of the highway including passing lanes, and parking accommodations from just north of Twenty Mile River to the Alyeska Highway and construction of three replacement bridges within this segment at Glacier Creek (bridge #639), Virgin Creek(bridge #638), and Petersen Creek (bridge #636). Project also includes rehabilitation of three miles of highway near the southern termini of the Project including construction of passing lanes and the rehabilitation of the Ingram Creek Bridge near the southern termini of the project. Final construction of middle segment will occur as project Need ID 30569	2018- U/C	NHS	\$0	\$89,500	\$0	\$0	\$0	\$0	\$89,500	\$89,500
30689	OUT0005	INHT PORTAGE CURVE MULTI-MODAL CONNECTOR (FLAP) - The United States Forest Service (USFS) in cooperation with the State of Alaska Department of Transportation & Public Facilities (DOT&PF) & the Federal Highway Administration (FHWA) is proposing construction of a multi-modal pathway adjacent to the Seward Highway from Ingram Creek (MP 75) through the Portage Curve to the Twentymile River (MP 82). The proposed pathway will improve the health and quality of life for both residents and Alaska visitors by providing separated pathways that connect to the Iditarod National Historic Trail (INHT), Portage Valley trail of Blue Ice, and many other recreation opportunities.	2018 - D 2019 - C	FLAP/TAP	\$0	\$2,000	\$10,082	\$0	\$0	\$0	\$12,082	\$12,082
30400	OUT0006	Crow Creek Road Mile Point 4-5 (Milepost 4.3 - 4.95) - Both road and bridge improvements to address identified deficiencies and arrest further degradation of the facilities. Road improvements will include stabilizing with highly frost susceptible material , reshaping and regrade, drainage. Bridge improvements will consist of replacing timber planks at abutments, reinforce concrete footings, rip rap armoring, replacement/repair of approach rails, bridge signage, and clearing of brush to restore safe sight distance.	2018 - D/C	FLAP/TAP	\$0	\$762	\$0	\$0	\$0	\$0	\$762	\$762
12640	OUT0007	Seward Highway MP 99-105 Bird and Indian Improvements - Design and construct Seward Highway improvements. May include possible bypass of Bird and Indian. Project includes passing lanes and bike/ped trail.	2018 - U/C	NHS	\$0	\$30,100	\$0	\$0	\$0	\$0	\$30,100	\$30,100
12641	OUT0008	Seward Highway MP 105-115 Passing Lanes Indian to Potter - The project includes improvements in the Windy Corner area of the Seward Highway to consisting of highway realignment, wildlife viewing turnouts, and railroad relocation as needed. Project would coordinate construction of auxiliary lanes and other safety improvements funded through HSIP.	2018- D	NHS	\$0	\$1,600	\$0	\$0	\$0	\$71,500	\$1,600	\$73,100
	OUT0009	Seward Highway: Seward at Alyeska Highway Improvements - Construct a divided intersection on the Seward Hwy at the Alyeska Hwy to allow queuing for left-turning vehicles.		OSF	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ANNUAL TOTALS					\$0	\$142,712	\$14,732	\$4,150	\$9,150	\$75,650	\$170,744	\$246,394

*Projects are not listed in priority order. Project totals include match. The match is funded with State or Local funding.

Table 1. Four-Year Program Summary
AMATS FFY 2019-2022 TIP

PROJECT LOCATION	FEDERAL FISCAL PROGRAMMING YEAR (\$ in Thousands)				4-year total	% of 4-year Non-NHS \$
	October 1 - September 30					
	2019	2020	2021	2022		
Non-National Highway System (Table 2)						
Roadway Improvements without Pavement Replacement Projects	\$6,515	\$20,764	\$14,205	\$19,283	\$60,767	49.9%
Pavement Replacement Projects (Table 7)	\$6,600	\$3,200	\$7,111	\$3,350	\$20,261	16.6%
	\$13,115	\$23,964	\$21,316	\$22,633	\$81,028	
Non-motorized (Table 3)	\$2,550	\$1,850	\$6,450	\$6,000	\$16,850	13.8%
Plans and Studies (Table 4)	\$6,150	\$1,450	\$250	\$0	\$7,850	6.4%
Congestion Mitigation & Air Quality (Table 5)	\$7,545	\$2,830	\$2,830	\$2,830	\$16,035	13.2%
Non-National Highway System Subtotal for Non-NHS roads, non-motorized & CMAQ projects	\$29,360	\$30,094	\$30,846	\$31,463	\$121,763	100.0%
STIP Non-National Highway System Allocation from ADOT&PF's CTP programs [as of 3/14]	\$29,360	\$30,094	\$30,846	\$31,463	\$121,763	
AMATS CMAQ program set aside [as of 3/14]	\$2,255	\$2,311	\$2,369	\$2,428	\$9,363	
<i>STIP Non-NHS Allocation for all projects (including CTP and CMAQ allocation)</i>	\$31,615	\$32,405	\$33,215	\$33,891	\$131,126	
Other Funded Projects within the Municipality of Anchorage						
Highway Safety Improvement Program (Table 8)	\$12,640	\$7,323	\$14,175	\$0	\$34,138	
National Highway System (Table 9)	\$26,000	\$45,000	\$25,000	\$25,000	\$115,500	
Transit Capital FTA Section 5307 to MOA (Table 10)	\$8,166	\$9,821	\$8,121	\$8,121	\$34,229	
Transit Capital FTA Section 5307 to ARRC (Table 10)	\$3,890	\$3,940	\$4,180	\$4,330	\$16,340	
Transit Capital FTA Section 5337 [State of Good Repair] to ARCC (Table 10)	\$600	\$1,700	\$4,300	\$4,300	\$10,900	
TOTAL PROGRAM ALLOCATION = (Non-NHS + NHS + HSIP Set Aside +AMATS Pave./Bridge Refurbish.+ all FTA 5307, 5337, and 5309)	\$80,656	\$97,878	\$86,622	\$73,214	\$338,370	
Other Federal Funded Projects within AMATS (Table 11)	\$71,504	\$112,347	\$77,238	\$863,000	\$1,124,089	
National Highway System Improvements Outside AMATS boundaries, but within the MOA (Table 12)	\$142,712	\$14,732	\$4,150	\$9,150	\$170,744	
TOTAL FEDERAL FUNDING For Transportation Improvements within AMATS & the MOA	\$294,872	\$224,957	\$168,010	\$945,364	\$1,633,203	

Notice to MOA Project Managers / Project Sponsors! If your project includes ITS elements and uses funds from the federal highway trust fund, prior to acquisition, construction, or implementation, you must demonstrate compliance with federal Systems Engineering Analysis requirements. Complete the ADOT&PF Systems Engineering Analysis Checklist, link below, and submit to FHWA through ADOT&PF Central Region Planning.

**Table 2. Roadway Improvements
AMATS FFY 2019-2022 TIP**

Grandfathered Project	TIP Need ID	PROJECT LOCATION	PROJECT PHASING PLAN	FEDERAL FISCAL PROGRAMMING				Estimated funding needs after 2022	Est total project cost 2019-2022
				October 1 - September 30					
				2019	2020	2021	2022		
G	2159	O'Malley Road Reconstruction [Seward Highway to Hillside Drive] - Reconstruct the roadway to improve safety and capacity at intersections and improve pedestrian facilities and 3 lane section east of Lake Otis Pkwy, and 5 lane section between Seward Hwy and Lake Otis Pkwy. Landscaping @ 5% of Construction \$ = to be determined. \$1.0M in Design and \$4.3M ROW funding for Phase I in 2015. \$500,000 ROW in 2016 for Phase II. \$12.2M in U/C funding for Phase I in 2017 is A/C into 2016 for a total of \$26.7M. Phase I will receive additional funds of \$4.2M from FFY 2013 GO Bond or other non-AMATS sources of funding such as NHPP or statewide STP funds. Phase II is funded with the remainder of the FFY 2013 GO Bond supplemented by TIP funds.	2019 - ROW 2020 - U/C	\$500	\$18,320	\$8,580	\$0	\$0	\$27,400
G	29252	Glenn Highway Integrated Corridor Management Study [ICM] - Project will produce a final Concept of Operations for a comprehensive ICM approach to the Glenn Highway operations, to address traffic congestion, including congestion caused by crashes.	2019 - Study	\$400	\$0	\$0	\$0	\$0	\$400
G	2174	Abbott Road Rehabilitation [Lake Otis Parkway to Birch Road] - project will increase from 2 to 4 lanes and improve intersections and pedestrian facilities. Project recommended to be developed as a 3R per ADOT's Pre-Construction Manual. \$1.5M in ROW funding is A/C from 2015 into 2014. \$7.7M in U/C funding is A/C from 2017 into 2016.		\$0	\$0	\$0	\$0	\$0	\$0
	RDY00001	Fireweed Lane Rehabilitation [Spenard Road to Seward Highway] - This project would rehabilitate Fireweed Lane from Spenard Road to the Seward Highway and include a road diet, changing Fireweed from 4 lanes to 3 lanes (2 with a center turn lane). This project would also include non-motorized improvements.	2019 - D 2021 - ROW	\$1,000	\$0	\$2,500	\$0	\$6,000	\$3,500
	RDY00002	C Street/Ocean Dock Road Ramp and Intersection Improvements - This project would rehabilitate the C Street/Ocean Dock Road Intersection based on the alternative #3 produced from the C Street/Ocean Dock Road Reconnaissance Study completed in 2018. Project would include non-motorized and drainage improvements.	2019 - D 2021 - ROW	\$500	\$0	\$1,000	\$0	\$6,000	\$1,500
	RDY00003	Spenard Road Rehab [Benson Blvd to Minnesota Dr] - Project will rehabilitate to improve traffic flow. This project would also include non-motorized improvements. Project shall not include improvements to the Minnesota Intersection except ADA requirements on the east side.	2019 - D 2022 - ROW	\$1,500	\$0	\$0	\$2,500	\$40,000	\$4,000
	RDY00004	Dr. Martin Luther King Jr Avenue Extension - Extend Dr. Martin Luther King Jr Avenue from Elmore Road to the south end of Piper Drive. The new roadway would include non-motorized improvements.	2019 - D 2021 - ROW	\$1,500	\$0	\$1,500	\$0	\$13,000	\$3,000
	RDY00005	Rabbit Creek Road Reconstruction [Seward Highway to Goldenview Drive] - Project would reconstruction Rabbit Creek Road from the Seward Highway to Goldenview Drive with a center turn lane and includes non-motorized improvements.	2022 - D	\$0	\$0	\$0	\$1,500	\$10,300	\$1,500
	RDY00006	East 4th Ave Signal and Lighting Upgrade [A St to Ingra St] - Reconstruct the traffic signal and street lighting system along 4th Ave between A St and Ingra St. Sidewalk and curb ramps will also be replaced.	2019 - D 2020 - D/ROW 2022 - U/C	\$500	\$324	\$0	\$7,000	\$0	\$7,824

*Projects are not listed in priority order.

**Table 2. Roadway Improvements
AMATS FFY 2019-2022 TIP**

Grandfathered Project	TIP Need ID	PROJECT LOCATION	PROJECT PHASING PLAN	FEDERAL FISCAL PROGRAMMING				Estimated funding needs after 2022	Est total project cost 2019-2022
				October 1 - September 30					
				2019	2020	2021	2022		
	RDY00007	Potter Drive Rehabilitation [Arctic Blvd to Dowling Road] - This project would rehabilitate Potter Drive from Arctic Boulevard to Dowling Road and include non-motorized improvements.	2020 -D 2022 - ROW	\$0	\$500	\$0	\$150	\$3,500	\$650
	RDY00008	Transportation Demand Management Projects - Funding for implementation of project #PLN0008 the Transportation Demand Management study of the University Medical District.	2022 - Implementation	\$0	\$0	\$0	\$5,003	\$0	\$5,003
	RDY00009	Seward Highway to Glenn Highway Connection PEL Design - Implement the projects identified as part of the PEL done for the Seward Highway to Glenn Highway Connection.	2022 - D	\$0	\$0	\$0	\$1,000	\$1,000	\$1,000
	RDY00010	Mountain Air Drive [Rabbit Creek Road to E. 164th Ave] - Extend Mountain Air Drive from Rabbit Creek Road to E. 164th Ave. Recommend separated pathway. Purpose: Circulation, access, and safety.	2020 - D 2022 - ROW	\$0	\$1,000	\$0	\$1,500	\$11,000	\$2,500
	RDY00011	Safety Improvement Program (Traffic Count Support) - Collect traffic data within the AMATS area completed by the ADOT&PF Central Region Highway Data Section and MOA Traffic Department Data Section.	2019-22 Programming	\$615	\$620	\$625	\$630	\$1,920	\$2,490
	RDY00012	Pavement Replacement Program - This program will provide a single funding source for several pavement overlay and/or replacement projects. Improvements are also expected to include ADA and some existing curb and sidewalk repair. May include those projects listed in Table 7 or other priorities.	2019-22 Programming	\$6,600	\$3,200	\$7,111	\$3,350	\$20,000	\$20,261
		The contingency list of projects for each year will consist of the following year's projects.	ANNUAL TOTALS	\$13,115	\$23,964	\$21,316	\$22,633	\$112,720	\$81,028
		STIP ALLOCATIONS FOR ALL TYPES OF NON-NHS PROJECTS = CTP.		\$29,360	\$30,094	\$30,846	\$31,463	\$24,955	\$121,763
		Approximate percentage (%) for roadways		22%	69%	46%	61%	4-year average	50%
		Approximate percentage (%) for pavement replacement projects		22%	11%	23%	11%	4-year average	17%

*Projects are not listed in priority order.

**Table 3. Non-Motorized
AMATS FFY 2019-2022 TIP**

Grandfathered Project	TIP Need ID	PROJECT LOCATION	PROJECT PHASING PLAN	FEDERAL FISCAL PROGRAMMING YEAR (\$in Thousands)					Estimated funding needs after 2022	Est total project cost 2019-2022
				October 1 - September 30						
				Carryover	2019	2020	2021	2022		
G	29257	Dimond Center Pedestrian and Transit Improvements - Multiphase effort focusing on pedestrian, bicycle, transit and travel way improvements. Primary improvements includes sidewalk connectivity, bicycle infrastructure, pedestrian and bicycle signals/signage, traffic calming techniques, lighting and other safety related infrastructure to ensure compliance with ADA.		\$2,000	\$0	\$0	\$0	\$0	\$0	\$0
G	26628	Bicycle Plan Project Implementation - Project would sign, stripe, and mark bike lanes or shoulders on existing roadways within the AMATS boundary area to create a safe, connected network of bicycle facilities as identified in the Anchorage Bicycle plan. Project consists of nominated projects Core Bicycle Network Phase I-III.		\$0	\$0	\$0	\$0	\$0	\$0	\$0
G	26629	Pedestrian Plan Project Implementation - Project would improve pedestrian safety and construct missing links as identified in 2007 Anchorage Pedestrian Plan. FFY16 funded with non-AMATS sources.		\$0	\$0	\$0	\$0	\$0	\$0	\$0
	NMO00001	Downtown Trail Connection - Project will construct a connection between the Tony Knowles Coastal Trail to the Ship Creek Trail in downtown Anchorage.	2019 - D 2021 - ROW	\$0	\$300	\$0	\$1,000	\$0	\$4,000	\$1,300
	NMO00002	Fish Creek Trail Connection [Northern Lights Blvd to the Tony Knowles Coastal Trail] - This project will construct a connection of the Fish Creek Trail to the Tony Knowles Coastal Trail.	2020 - D 2022 - ROW	\$0	\$0	\$500	\$0	\$500	\$3,000	\$1,000
	NMO00003	Tudor Road Pathway Connection [Chugach Foothills Connector Phase II to Regal Mountain Drive] - This project would construct a connection from the phase II of the Chugach Foothills Connector to Regal Mountain Drive.	2019 - D 2021 - C	\$0	\$100	\$0	\$500	\$0	\$0	\$600
	NMO00006	Potter Marsh Improvements - This project would make improvements to the Potter Marsh southern parking facility.	2019 - D 2021 - U/C	\$0	\$250	\$0	\$1,250	\$0	\$0	\$1,500
	NMO00007	Old Seward Highway Pathway [DeArmoun Road to Rabbit Creek Road] - This project would construct a pathway along Old Seward Highway from DeArmoun Road and connect to the termini of the non-motorized improvement(s) done as part of the Rabbit Creek Road [Seward Highway to Goldenvue Drive] Reconstruction project.	2019 - D 2021 - ROW	\$0	\$500	\$0	\$1,000	\$0	\$2,500	\$1,500
	NMO00008	Anchorage Areawide Pathway and Trails Pavement Replacement - This program will provide a single funding source for several pathway/trail pavement replacement projects. May include those projects listed in Table 7 or other priorities.	2019-22 - D/U/C	\$0	\$1,400	\$1,350	\$2,700	\$5,500	\$10,000	\$10,950
		The contingency list of projects for each year will consist of the following year's projects.	Section Totals	\$2,000	\$2,550	\$1,850	\$6,450	\$6,000	\$19,500	\$16,850
		STIP ALLOCATIONS FOR ALL TYPES OF NON-NHS PROJECTS = CTP			\$29,360	\$30,094	\$30,846	\$31,463	4 year total=	\$121,763
		Approximate percentage (%) for all Non-Motorized projects			9%	6%	21%	19%	4-year Avg=	<i>13.8%</i>

*Projects are not listed in priority order.

**Table 4. Plans and Studies
AMATS FFY 2019-2022 TIP**

Grandfathered Project	TIP Need ID	PROJECT LOCATION	PROJECT PHASING PLAN	FEDERAL FISCAL PROGRAMMING YEAR (\$in Thousands)				Estimated funding needs after 2022	Est total project cost 2019-2022
				October 1 - September 30					
				2019	2020	2021	2022		
		Studies and Plans							
G	PLN00001	AMATS MTP - Funding for the Municipality of Anchorage AMATS Metropolitan Transportation Plan.	2020 - Plan	\$0	\$800	\$0	\$0	\$800	\$800
	PLN00002	TSMO Strategic Implementation Plan - This study will develop the AMATS Transportation Systems Management & Operations (TSMO) strategic plan, and will provide overall direction, goals, and strategic outcomes for the program. The project will translate AMATS strategic elements (including 2040 MTP Implementation Plan, ITS Implementation Plan, CMP Implementation Plan, and Transportation Demand Management Plan) into a combined Five-Year TSMO implementation plan document that will provide overall direction and strategic outcomes, with specific projects with related cost estimates, services and activities.	2020 - Study	\$0	\$500	\$0	\$0	\$0	\$500
	PLN00003	Seward Highway to Glenn Highway Connection Planning and Environmental Linkages (PEL) Study [20th Ave to Glenn Hwy/Airport Heights Intersection] - The intent of this PEL is to define a vision for the future of this connection, identify environmental and resource concerns and opportunities in the study area, and use the information to develop reasonable alternatives through consultation with the affected agencies and the public.	2019 - Study	\$5,000	\$0	\$0	\$0	\$0	\$5,000
	PLN00004	2040 Secondary Street Deficiency Analysis and Prioritization - This project will conduct an area-specific review of existing collector and local street networks that connect or run parallel to major arterials in the Anchorage Bowl. This review will identify deficiencies and needed additional local and collector street connections, intersection and access improvements, right-of-way widths, and pedestrian connections.	2019 - Study	\$0	\$150	\$0	\$0	\$0	\$150
	PLN00005	Chugach Way Area Transportation Element Study - This project would provide recommendations on the transportation elements developed as part of the Chugach Way Small Area Plan.	2019 - Study	\$150	\$0	\$0	\$0	\$0	\$150
	PLN00006	92nd Ave Extension Reconnaissance Study - This project will look at the challenges with extending 92nd Ave from Old Seward Highway to King Street and offer recommendations based on safety, congestion, non-motorized improvements, and freight mobility.	2021 - Study	\$0	\$0	\$250	\$0	\$0	\$250
	PLN00007	Port of Alaska Multimodal Improvements Study - This project will study and make recommendations on how to improve the Ocean Dock Road connection to the Port of Alaska.	2019 - Study	\$250	\$0	\$0	\$0	\$0	\$250
	PLN00008	University Medical District Transportation Demand Management (TDM) Study - Project will complete a TDM study, evaluating transportation demand throughout the entire University Medical District and make recommendations for funding future project.	2019 - Study	\$750	\$0	\$0	\$0	\$0	\$750
		The contingency list of projects for each year will consist of the following year's projects.	ANNUAL TOTALS	\$6,150	\$1,450	\$250	\$0	\$800	\$7,850
			STIP ALLOCATIONS FOR ALL TYPES OF NON-NHS PROJECTS = CTP	\$29,360	\$30,094	\$30,846	\$31,463	4 year total=	\$121,763
	Notice to MOA Project Managers/Project Sponsors! If your project includes ITS elements and uses funds from the federal highway trust fund, prior to acquisition, construction, or implementation, you must demonstrate compliance with federal Systems Engineering Analysis requirements. Complete the ADOT&PF Systems Engineering Analysis Checklist and submit to FHWA through ADOT&PF Central Region Planning.								

*Projects are not listed in priority order.

**Table 5. Congestion Mitigation Air Quality (CMAQ)
AMATS FFY 2019-2022 TIP**

Grandfathered Project	TIP Need ID	PROJECT LOCATION	PROJECT PHASING PLAN	FEDERAL FISCAL PROGRAMMING YEAR (\$in Thousands)				Estimated funding needs after 2022	Est total project cost 2019 - 2022
				October 1 - September 30					
				2019	2020	2021	2022		
SIP-Mandated Projects and Programs									
	CMQ00001	Anchorage Ridesharing/Transit Marketing - This project funds the Municipal Share-A-Ride program which promotes, subsidizes, and contract manages an area-wide vanpool commuter service; and a comprehensive public transportation marketing effort.	2019-2022 Programming	\$900	\$900	\$900	\$900	\$2,700	\$6,300
	CMQ00002	Air Quality Public & Business Awareness Education Campaign - The goal of this program is to further inform the public about air quality issues and what steps people may take to reduce pollution.	2019-2022 Programming	\$300	\$300	\$300	\$300	\$900	\$2,100
			Section Totals	\$1,200	\$1,200	\$1,200	\$1,200	\$3,600	\$8,400
STIP Non-National Highway System Allocation from ADOT&PF's CMAQ program [as of 3/14]				\$1,200	\$1,200	\$1,200	\$1,200	\$1,200	\$8,400
Programs									
	CMQ00003	Arterial Roadway Dust Control - Magnesium chloride (MgCl2) dust palliative will be applied to approximately 70 miles of high volume State and Municipal roadways prior to and after spring sweeping. FFY16 funded with non-AMATS sources.	2019-2022 Implementation	\$200	\$200	\$200	\$200	\$600	\$1,400
	CMQ00004	Traffic Control Signalization - Program would provide proactive efficiencies with better/more updated signal timing plans to address intersection congestion and improve air quality. Funding supports development of Traffic Management Center and emergency vehicle and low priority transit signal preemption.	2019-2022 Programming	\$350	\$350	\$350	\$350	\$1,050	\$2,450
	CMQ00005	Bus Stop & Facility Improvements - This projects funds the upgrade of facility and bus stop sites to meet both the federally mandated Americans with Disabilities Act [ADA] requirements and the operational needs. Typical bus stop improvements include bus shelters, benches, trash receptacles, landscaping, grading, pacing, utility relocations, lighting, curb adjustments, drainage, constructing paths, and construction/reconstruction of turnouts. Typical facility improvements include upgrades, rehabilitation, and construction/reconstruction not limited to safety, security, facility equipment, structures, underground storage tanks, parking lots, sidewalks, and drainage. Table 5 of CMAQ funds supplement FTA funds in project 4, 8, and 11 on Table 10. FFY19-2021 AMATS funding is supplemented with CMAQ funding outside the AMATS allocation.	2019-2022 Implementation	\$2,989	\$1,265	\$1,321	\$1,379	\$4,509	\$11,463
	CMQ00006	Multimodal trip planner and smartphone application - project will provide for operation of multimodal trip planner and smartphone app to provide carpool, vanpool, and bicycle commuter matching, transit and shuttle schedules, and multimodal directions.	2019-2022 Implementation	\$70	\$70	\$70	\$70	\$2,100	\$2,380
	CMQ00007	Transit Fleet Replacement Operations - This project provides funding for replacement and potential operational assistance of the Public Transportation Department. The fleet consists of 13-passenger vans, MV-1, 22' and 40' buses that provide service to RideShare, AnchorRIDES, and People Mover. Vehicles will be replaced based on the FTA defined useful life and the People Mover Fleet Management Plan. Table 5 of CMAQ funds supplement FTA funds in project 2, 6, and 10 on Table 10. FFY19-2021 AMATS funding is supplemented with CMAQ funding outside the AMATS allocation. \$1.75M in 2019 funding should be prioritized toward electric fleet vehicles if at all possible.	2019-2022 - Purchase	\$4,936	\$2,000	\$2,000	\$2,000	\$6,000	\$16,936
			Section Totals	\$7,545	\$2,830	\$2,830	\$2,830	\$12,901	\$34,629
		The contingency list of projects for each year will consist of the following year's projects.	ANNUAL TOTALS	\$7,545	\$2,830	\$2,830	\$2,830	\$12,901	\$34,629
		STIP ALLOCATIONS FOR ALL TYPES OF NON-NHS PROJECTS = CTP		\$29,360	\$30,094	\$30,846	\$31,463	4 year total=	\$121,763
		Approximate percentage (%) for all Congestion Mitigation/Air Quality (CMAQ) projects		26%	9%	9%	9%	4-year Avg=	13.2%
Notice to MOA Project Managers/Project Sponsors! If your project includes ITS elements and uses funds from the federal highway trust fund, <u>prior to acquisition, construction, or implementation</u> , you must demonstrate compliance with federal Systems Engineering Analysis requirements. Complete the ADOT&PF Systems Engineering Analysis Checklist and submit to FHWA through ADOT&PF Central Region Planning.									

*Projects are not listed in priority order.

**Table 6. Transportation Alternatives Program
AMATS FFY 2019-2022 TIP**

Grandfathered Project	TIP Need ID	PROJECT LOCATION	PROJECT PHASING PLAN	FEDERAL FISCAL PROGRAMMING YEAR (\$in Thousands)				Est total project cost
				October 1 - September 30				
				2019	2020			
G	TAP00001	Chugach Foothills Connector, Phase II - Project will construct a multi-use path on Tudor Road between Regal Mountain Drive and Campbell Airstrip Road.	2019 - D 2020 - C	\$200	\$1,700			\$1,900
G	TAP00002	AMATS Mountain View Drive Pathway Reconstruction - Project will reconstruct a multi-use pathway connecting Peterkin Avenue with Mountain View Drive between Bliss Street and North Bunn Street.	2019 - U/C	\$750	\$0			\$750
G	TAP00003	Anchorage Arewide Trails Rehabilitation - Project will rehabilitate the Fish Creek trail from Kiwanis Fish Creek Park to Barbara Street.	2019 - U/C	\$0	\$0			\$0
			Section Totals	\$950	\$1,700			\$2,650

*Programmed amounts includes a 20% match.

**Table 7. Pavement Replacement Program
AMATS FFY 2019-2022 TIP**

2019 - 2022 TIP, Pavement Replacement Projects	
	Project Location
1	Airport Heights Road - Debarr Road to Glenn Hwy
2	Boundary Ave - Boniface Pkwy to Oklahoma
3	Brayton Drive - Dearmoun Road to - O'Malley Road
4	Elmore Rd - Huffman Rd to O'Malley Rd
5	Fireweed Ln - Spenard Road to Arctic Blvd
6	Hiland Rd - MP 0 to MP 3.2
7	Post Rd - 3rd Ave to Reeve Blvd
8	Rabbit Creek Rd - Old Seward Hwy to Hillside Dr
9	Upper Huffman - Hillside Dr to Toilsome Hill Dr
10	Reeve Blvd - 5th Ave to Post Road
11	DeArmoun Road - Hillside Drive to Canyon Road
	*Projects not in priority order
	Pavement Replacement Annual Totals shown in Table 2

2019 - 2022 TIP, Pathway and Trail Pavement Replacement Projects	
	Project Location
1	20th Ave Sidewalk - Bragaw Street to Tikishla Park
2	Debarr Road - Boniface to Muldoon (southside sidewalk)
3	Airport Heights Road - Debarr Road to Glenn Hwy
4	Northern Lights Blvd - Lois Drive to Minnesota Drive (southside pathway)
5	Jewel Lake Pathway - Raspberry Road to International Airport Road
	*Projects not in priority order
	Pavement Replacement Annual Totals shown in Table 3

**Table 8. Highway Safety Improvement Program (HSIP)
AMATS FFY 2019-2022 TIP**

STIP Need ID	TIP Need ID	PROJECT LOCATION	PROJECT PHASING PLAN	FEDERAL FISCAL PROGRAMMING YEAR (\$ in Thousands)				Estimated funding needs after 2022	Est total project cost 2019-2022
				October 1 - September 30					
				2019	2020	2021	2022		
6087	HSP0001	Jewel Lake Road: 88th St to Strawberry TWLTL (Two way left turn lane)	2015 - D 2017 - R 2018 - U/C	\$0	\$0	\$0	\$0	\$0	\$0
6087	HSP0002	CR Traffic Safety Corridor Left Turn Lanes	2019 - U/C	\$2,700	\$0	\$0	\$0	\$0	\$2,700
6087	HSP0003	Minnesota / Seward Hwy / Tudor / Muldoon Lighting Improvements	2018 - D/R 2019 - U/C	\$5,590	\$0	\$0	\$0	\$0	\$5,590
6087	HSP0004	Tudor Rd at C St and Dimond Blvd at C St - Right Turn Channelization	2017 - D/R 2020 - U/C	\$0	\$6,733	\$0	\$0	\$0	\$6,733
6087	HSP0005	Minnesota Dr Weaving Lane	2017 - D 2019 - U/C	\$3,519	\$0	\$0	\$0	\$0	\$3,519
6087	HSP0006	Minnesota Dr Guide Sign Upgrades	2017 - D/U 2019 - C	\$321	\$0	\$0	\$0	\$0	\$321
6087	HSP0007	Seward Hwy Rockfall Mitigation	2018/2019 - D 2021 - C	\$500	\$0	\$14,175	\$0	\$0	\$14,675
6087	HSP0008	Arctic Blvd Railroad Signal Relocation	2019 - D 2020 - U	\$10	\$590	\$0	\$0	\$0	\$600
Total				\$12,640	\$7,323	\$14,175	\$0	\$0	\$34,138

*Projects in this list fall outside the AMATS allocation and are not in priority order. They have not been scored or ranked by AMATS.

**Table 9. National Highway System (NHS)
AMATS FFY 2019-2022 TIP**

STIP Need ID	TIP Need ID	PROJECT LOCATION	PROJECT PHASING PLAN	FEDERAL FISCAL PROGRAMMING YEAR (\$in Thousands)				Estimated funding needs after 2021	Est total project cost
				October 1 - September 30					
				2018	2019	2020	2021		
27470	NHS0001	Anchorage Glenn Highway Muldoon Road Interchange Reconstruction - Reconstruct interchange at Muldoon and Glenn Highway.	2018 - C	\$0	\$0	\$0	\$0	\$0	\$0
29730	NHS0002	Seward Highway Dowling Road Interchange Rehabilitation - Project will improve the Dowling Road roundabouts, the associated highway ramps, and make other improvements as needed to enhance safety and increase traffic flow.	2018 - D	\$1,000	\$0	\$0	\$0	\$14,000	\$15,000
29731	NHS0003	Seward Highway O'Malley Road to Dimond Boulevard Reconstruction - This project funds the design and ROW purchase for the final segments of this project reconstructing the Seward Highway from Dimond Boulevard to O'Malley Road and includes an underpass to connect 92nd Avenue (west of the Seward Highway) with Academy Drive (east of the Seward Highway), and construction is funded under Need ID 30691.	2019 - D/ROW	\$0	\$20,000	\$0	\$0	\$0	\$20,000
30691	NHS0004	Seward Highway O'Malley Road to Dimond Boulevard Reconstruction Phase II - This is the second phase of the Seward Highway project, and will reconstructs the Seward Highway from Dimond Boulevard to O'Malley Road. Project includes an underpass to connect 92nd Avenue (west of the Seward Highway) with Academy Drive (east of the Seward Highway). The design and first construction phase are under Need ID 29731.		\$0	\$0	\$0	\$0	\$76,500	\$76,500
18924	NHS0005	Pavement and Bridge Rehabilitation - Crack sealing, surface treatment drainage, signage, guardrail, illumination, and other refurbishments to prolong the life of road pavement and bridges and their safety related structures. Project includes NHS Lane Delineators, Destination & Distance Signing, Pavement Markings and Signalization, Abandoned Vehicle Program, Road Surfacing and Transfer, Road Surface Treatments, and improve curb ramps to meet ADA standards (in coordination with Need ID 30397). The scope does not include landscaping or other elements inconsistent with a pavement preservation focus. This is a DOT&PF central region wide program with approximately \$25M going to projects within the AMATS area on an annual basis with a majority going to the NHS.	2018-2021+ - All Phases	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$125,000
The contingency list of projects for each year will consist of the following year's projects. (Note: Table is not shown in priority order. These projects have no been ranked by AMATS.)				\$26,000	\$45,000	\$25,000	\$25,000	\$115,500	\$236,500

*Projects in this list fall outside the AMATS allocation and are not in priority order. They have no been scored or ranked by AMATS.

**Table 10. Transit
AMATS FFY 2019-2022 TIP**

STIP Need ID	TIP Need ID	PROJECT LOCATION	PROJECT PHASING PLAN	FEDERAL FISCAL PROGRAMMING YEAR (\$in Thousands)					Estimated funding needs after 2022	Est total project cost 2019-2022
				October 1 - September 30						
				Carryover	2019	2020	2021	2022		
19458	TRN00001	Preventative Maintenance/Capital Maintenance - FTA [Federal Transit Administration] allows grantees to use capital funds for overhauls and preventative maintenance. FTA assistance for those items is based on a percentage of annual vehicle maintenance costs.	2019 - 2022 - Implementation	\$0	\$4,500	\$4,500	\$4,500	\$4,500	\$13,500	\$18,000
19462	TRN00002	Fleet Replacement/Expansion - This project funds the fleet expansion and replacement for the AnchorRIDES paratransit service, as well as the fixed route fleet.	2019 - 2022 - Implementation	\$0	\$200	\$200	\$200	\$200	\$600	\$800
19464	TRN00003	ADA Complementary Paratransit Services - Costs associated with ADA paratransit programs are eligible for this funding. The project funds the ADA paratransit eligibility process with a transportation skills assessment and a travel training program for people who could benefit from individualized instruction regarding how to independently ride People Moved buses. May also be used to purchase AnchorRIDES trips.	2019 - 2022 - Implementation	\$0	\$400	\$400	\$400	\$400	\$1,200	\$1,600
19457	TRN00004	Bus Stop Improvements/1% Section 5307 Transit Improvements - This project funds the upgrade of bus stop sites to meet both the federally-mandated Americans with Disabilities Act [ADA] requirements and the operational needs. Typical improvements include bus shelters, benches, trash receptacles, landscaping, grading, paving, utility relocations, lighting, curb adjustments, drainage, constructing paths, and construction/reconstruction of turnouts. Table 10 FTA funds supplement CMAQ funds for the Bus Stop & Facility Improvements project in Table 5.	2019 - 2022 - Implementation	\$0	\$25	\$25	\$25	\$25	\$75	\$100
19463	TRN00005	ITS/Automated Operating System/Management Information Systems - This projects funds information systems necessary for efficient management of the public transportation system. Typical projects include: Geographical Information Systems [GIS] capabilities, upgrades to the automated maintenance system, refueling, and inventory system; a new computerized dispatch system; and upgrades to the scheduling/run-cutting process, customer information and telephone communications system, and desktop computers. This project also funds staff and capital resources to provide project oversight and capital for ITS for all modes of public transportation services. Provide day to day operational support to all ITS projects.	2019 - 2022 - Purchase	\$0	\$1,700	\$1,700	\$0	\$0	\$0	\$3,400
19459	TRN00006	Fleet Improvement/Support Equipment/Support Vehicle - This project funds improvements to existing transit and paratransit fleets. Typical projects include a ticket reader and issue attachment, which issues passenger passes on the bus; security systems; transit/signal improvements for headway enhancements; mechanical equipment and other improvements for facilities; mobile display terminals' and vehicle communications, radios and locations systems. This project also funds the purchase of replacement vehicles and equipment to support operation of the transit system. Typical purchases include pickup racks, maintenance trucks with special equipment, supervisor vehicles, shift change vehicles, fork lifts, sweepers, and bus access snow removal equipment.	2019 - 2022 - Purchase	\$0	\$145	\$500	\$500	\$500	\$1,500	\$1,645
29264	TRN00008	Transit Centers/Support Facilities - This project supports an on-going effort to provide major transit facilities key areas of the city and major destinations. The Anchorage Comprehensive Plan and 2040 Land Use Plan (LUP) identified neighborhood, town, regional commercial, and city centers that function as focal points for community activities with a mix of retail, residential, and public services and facilities. Anchorage Talks Transit coordinated with the LUP and implemented a frequent bus network along transit supportive development corridors. These corridors should provide pedestrian connections to surrounding neighborhoods and transit. Existing and future facility improvements along these corridors and in areas like Midtown, Downtown, U-Med, Dimond Center and Muldoon, are vital to the implementation of these community planning documents.	2019 - 2022 - Implementation	\$0	\$150	\$750	\$750	\$750	\$2,250	\$2,400
	TRN00009	Operating Assistance - Section 5307 operating assistance for fixed route, demand responsive, and/or Microtransit public transit service.	2019 - 2022 - Implementation	\$0	\$300	\$1,000	\$1,000	\$1,000	\$3,000	\$3,300
subtotal FTA Section 5307 & 5340				\$0	\$7,420	\$9,075	\$7,375	\$7,375	\$22,125	\$31,245

*Projects in this list fall outside the AMATS allocation and are not in priority order. They have not been scored or ranked by AMATS.

**Table 10. Transit
AMATS FFY 2019-2022 TIP**

STIP Need ID	TIP Need ID	PROJECT LOCATION	PROJECT PHASING PLAN	FEDERAL FISCAL PROGRAMMING YEAR (\$in Thousands)					Estimated funding needs after 2022	Est total project cost 2019-2022
				October 1 - September 30						
				Carryover	2019	2020	2021	2022		
19119	TRN00010	Section 5310 Enhanced Mobility of Seniors & Individuals w/ Disabilities. - Projects may include purchasing buses and vans; wheelchair lifts, ramps, and securement devices; transit-related information technology systems including scheduling/routing/one-call systems; mobility management programs; and acquisition of transportation services under a contract, lease, or other arrangement. Other activities may include travel training; volunteer driver programs; building an accessible path to a bus stop, including curb-cuts, sidewalks, accessible pedestrian signals or other accessible features; improving signage or way-finding technology; providing same day service or door-to-door service; purchasing vehicles to support new accessible taxi, ride-sharing and/or vanpooling programs; and mobility management programs.		\$0	\$208	\$208	\$208	\$208	\$624	\$832
27969	TRN00011	Section 5339 Bus and Bus Facilities Program - This program includes capital projects to replace, rehabilitate and purchase buses, vans, and related equipment, and to construct bus-related facilities, including technological changes or innovations to modify low or no emission vehicles or facilities.		\$0	\$538	\$538	\$538	\$538	\$1,614	\$2,152
		subtotal FTA section 5307, 5310, 5316, 5317, 5340 Transit funding to the MOA		\$0	\$8,166	\$9,821	\$8,121	\$8,121	\$24,363	\$34,229
		Alaska Railroad - FTA Section 5307 (Rail Tier) Funds								
19634	10	1% Transit Security on the Alaska Railroad Corporation projects	2019 - 2022 - Implementation	\$0	\$120	\$120	\$150	\$150	\$450	\$540
19634	11	Preventive Maintenance - This project partially funds statewide maintenance costs of passenger vehicle railcars and locomotives. Preventive maintenance is defined as all activities, supplies, materials, labor, services and associated costs required to preserve or extend the functionality and serviceability of the asset.	2019 - 2022 - Implementation	\$0	\$3,450	\$3,500	\$3,500	\$3,500	\$87,500	\$13,950
19634	12	1% Associated Transit Enhancements - can include benches, landscaping, and other transit related amenities.	2019 - 2022 - Implementation	\$0	\$120	\$120	\$130	\$130	\$410	\$500
19634	13	Track Rehab - Rail and tie rehabilitation within AMATS boundaries.	2019 - 2022 - Implementation	\$0	\$200	\$200	\$400	\$550	\$1,500	\$1,350
19634		Radio System - Replace and/or upgrade radio system equipment and communication components.	2019 - 2022 - Implementation	\$0	\$0	\$0	\$0	\$290	\$750	\$290
		subtotal FTA Section 5307 (Rail Tier) Transit funding to Railroad		\$0	\$3,890	\$3,940	\$4,180	\$4,330	\$90,610	\$16,340
		Alaska Railroad - FTA Section 5337 (State of Good Repair) Funds								
19634	14	Track Rehab - Rail and tie rehabilitation within AMATS boundaries.	2019 - 2022 - Implementation	\$0	\$100	\$0	\$400	\$400	\$1,200	\$900
19634	15	Preventive Maintenance - This project partially funds statewide maintenance costs of passenger vehicle railcars and locomotives. Preventive maintenance is defined as all activities, supplies, materials, labor, services and associated costs required to preserve or extend the functionality and serviceability of the asset.	2019 - 2022 - Implementation	\$0	\$500	\$1,700	\$3,900	\$3,900	\$9,500	\$10,000
		subtotal FTA Section 5337 (SGR) funding to Railroad		\$0	\$600	\$1,700	\$4,300	\$4,300	\$10,700	\$10,900
		Alaska Railroad - FTA Section 5337 (SGR) Funds		\$0	\$0	\$0	\$0	\$0	\$0	\$0
		subtotal FTA Section 5337 funding to Railroad		\$0	\$600	\$800	\$4,300	\$4,300	\$17,400	\$10,000
		subtotal FTA Sections 5307 (Rail Tier) & 5337 Transit funding to ARRC		\$0	\$4,490	\$5,640	\$8,480	\$8,630	\$101,310	\$27,240
		Total Transit Program (FTA {5307+5337})		\$0	\$12,656	\$15,461	\$16,601	\$16,751	\$125,673	\$61,469
		<i>The Municipality of Anchorage's Transportation Improvement Program (TIP) process is used to satisfy the public participation process of the Program of Projects (POP) that is required in U.S.C. Section 5307. The POP as presented is the proposed Program of Projects and will also be the final Program of Projects unless amended.</i>								

*Projects in this list fall outside the AMATS allocation and are not in priority order. They have not been scored or ranked by AMATS.

Table 11. Other Federal, State, and Local Funded Projects within the AMATS Area
AMATS FFY 2019-2022 TIP

STIP Need ID	TIP Need ID	PROJECT LOCATION	PROJECT PHASING PLAN	Funding Source	FEDERAL FISCAL PROGRAMMING YEAR (\$in Thousands)					Estimated funding needs after 2021	Est total project cost 2018-2021
					October 1 - September 30						
					Carryover	2018	2019	2020	2021		
	OFS00001	Anchorage Port Modernization Project (APMP). Deducted from the 2019 number is \$20M received from the state.	2018-2021 Programming	State GF GO Bond	\$108	\$70,000	\$53,000	\$74,000	\$863,000	\$0	\$1,060,108
19482	OFS00002	AK094 & AK105 - Construction & Road Improvements @ APU.	2018 - D 2019 - ROW/U 2020 - C	Earmark	\$0	\$1,004	\$1,030	\$3,238	\$0	\$0	\$5,272
26849	OFS00003	People Mover Transportation, Community, and System Preservation Program Winter City Pedestrian Safety & Bus Stop Improvements- project will improve safety, accessibility, and maintenance of existing pedestrian facilities and bus stops during winter months. [Federal share only]		FHWA Grant	\$0	\$0	\$0	\$0	\$0	\$0	\$0
28471	OFS00004	Campbell Tract Facility Alternate Entrance Alignment - Relocate the CTF entrance road 260' to align with East 68th Avenue.	2018/19 - D 2019 - C	FLAP	\$0	\$500	\$3,000	\$0	\$0	\$0	\$3,500
	OFS00005	Transitioning to Electric Battery-Powered Buses with Infrastructure Upgrades - Project will upgrade electric infrastructure in Anchorage's Bus Barn and Maintenance Building to accommodate electric buses.	2019 - C	FTA Grant	\$0	\$0	\$1,067	\$0	\$0	\$0	\$1,067
	OFS00005	Buses and Bus Facilities Infrastructure Investment Project - Replace and upgrade the information technology system for the Public Transportation Department. This project will improve the reliability of the bus system and help the city meet growing demand for transit.		FTA GRant	\$0	\$0	\$4,250	\$0	\$0	\$0	\$4,250
	OFS00006	Glenn Highway/Hiland Road to Artillery Road Reconstruction - Add a 3rd lane to both northbound and southbound Glenn Highway. Improvements at Hiland Road and Artillery Road Interchanges on the Glenn Highway. Replace Eagle River bridges with capacity for pathway and future HOV lanes. First construction phase will be northbound improvements. FFY 2013 GO Bond funding = \$35M.	2019 - C	State Fund	\$0	\$0	\$50,000	\$0	\$0	\$0	\$50,000
					\$108	\$71,504	\$112,347	\$77,238	\$863,000	\$0	\$1,124,089

*Projects in this list fall outside the AMATS allocation and are not in priority order. They have not been scored or ranked by AMATS.

**Table 12. NHS/Non-NHS Improvements outside AMATS within the MOA
AMATS FFY 2019-2022 TIP**

STIP Need ID	TIP Need ID	PROJECT LOCATION	PROJECT PHASING PLAN	Funding Source	FEDERAL FISCAL PROGRAMMING YEAR (\$in Thousands)					Estimated total funding needs after 2021	Estimated total project cost 2018- 2021
					October 1 - September 30						
					Carryover	2018	2019	2020	2021		
11439	OUT0001	Whittier Tunnel: Maintenance and Operations - Federal-aid eligible portion of Whittier tunnel and approaches, maintenance and operations.	2018-2021 - C	NHS	\$0	\$4,150	\$4,150	\$4,150	\$4,150	\$4,150	\$16,600
28330	OUT0002	Drainage Improvements for the Anton Anderson Memorial (Whittier) Tunnel - This project will provide driving surface and drainage improvements and install traffic control devices.	2018 - U/C	NHS	\$0	\$14,600	\$0	\$0	\$0	\$0	\$14,600
31496	OUT0003	Anton Anderson Memorial (Whittier) Tunnel - Project consists of improvement to the driving surface and rail bed as well as replacement of toll facility and other equipment.	2019 - D 2021 - C	NHS	\$0	\$0	\$500	\$0	\$5,000	\$0	\$5,500
11925	OUT0004	Seward Highway MP 75-90 Ingram Creek to Girdwood Road and Bridge Rehabilitation - The project includes rehabilitation of the highway including passing lanes, and parking accommodations from just north of Twenty Mile River to the Alyeska Highway and construction of three replacement bridges within this segment at Glacier Creek (bridge #639), Virgin Creek (bridge #638), and Petersen Creek (bridge #636). Project also includes rehabilitation of three miles of highway near the southern termini of the Project including construction of passing lanes and the rehabilitation of the Ingram Creek Bridge near the southern termini of the project. Final construction of middle segment will occur as project Need ID 30569	2018- U/C	NHS	\$0	\$89,500	\$0	\$0	\$0	\$0	\$89,500
30689	OUT0005	INHT PORTAGE CURVE MULTI-MODAL CONNECTOR (FLAP) - The United States Forest Service (USFS) in cooperation with the State of Alaska Department of Transportation & Public Facilities (DOT&PF) & the Federal Highway Administration (FHWA) is proposing construction of a multi-modal pathway adjacent to the Seward Highway from Ingram Creek (MP 75) through the Portage Curve to the Twentymile River (MP 82). The proposed pathway will improve the health and quality of life for both residents and Alaska visitors by providing separated pathways that connect to the Iditarod National Historic Trail (INHT), Portage Valley trail of Blue Ice, and many other recreation opportunities.	2018 - D 2019 - C	FLAP/TAP	\$0	\$2,000	\$10,082	\$0	\$0	\$0	\$12,082
30400	OUT0006	Crow Creek Road Mile Point 4-5 (Milepost 4.3 - 4.95) - Both road and bridge improvements to address identified deficiencies and arrest further degradation of the facilities. Road improvements will include stabilizing with highly frost susceptible material, reshaping and regrade, drainage. Bridge improvements will consist of replacing timber planks at abutments, reinforce concrete footings, rip rap armoring, replacement/repair of approach rails, bridge signage, and clearing of brush to restore safe sight distance.	2018 - D/C	FLAP/TAP	\$0	\$762	\$0	\$0	\$0	\$0	\$762
12640	OUT0007	Seward Highway MP 99-105 Bird and Indian Improvements - Design and construct Seward Highway improvements. May include possible bypass of Bird and Indian. Project includes passing lanes and bike/ped trail.	2018 - U/C	NHS	\$0	\$30,100	\$0	\$0	\$0	\$0	\$30,100
12641	OUT0008	Seward Highway MP 105-115 Passing Lanes Indian to Potter - The project includes improvements in the Windy Corner area of the Seward Highway to consisting of highway realignment, wildlife viewing turnouts, and railroad relocation as needed. Project would coordinate construction of auxiliary lanes and other safety improvements funded through HSIP.	2018- D	NHS	\$0	\$1,600	\$0	\$0	\$0	\$71,500	\$1,600
	OUT0009	Seward Highway: Seward at Alyeska Highway Improvements - Construct a divided intersection on the Seward Hwy at the Alyeska Hwy to allow queuing for left-turning vehicles.		OSF	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ANNUAL TOTALS					\$0	\$142,712	\$14,732	\$4,150	\$9,150	\$75,650	\$170,744

*Projects in this list fall outside the AMATS allocation and are not in priority order. They have not been scored or ranked by AMATS.