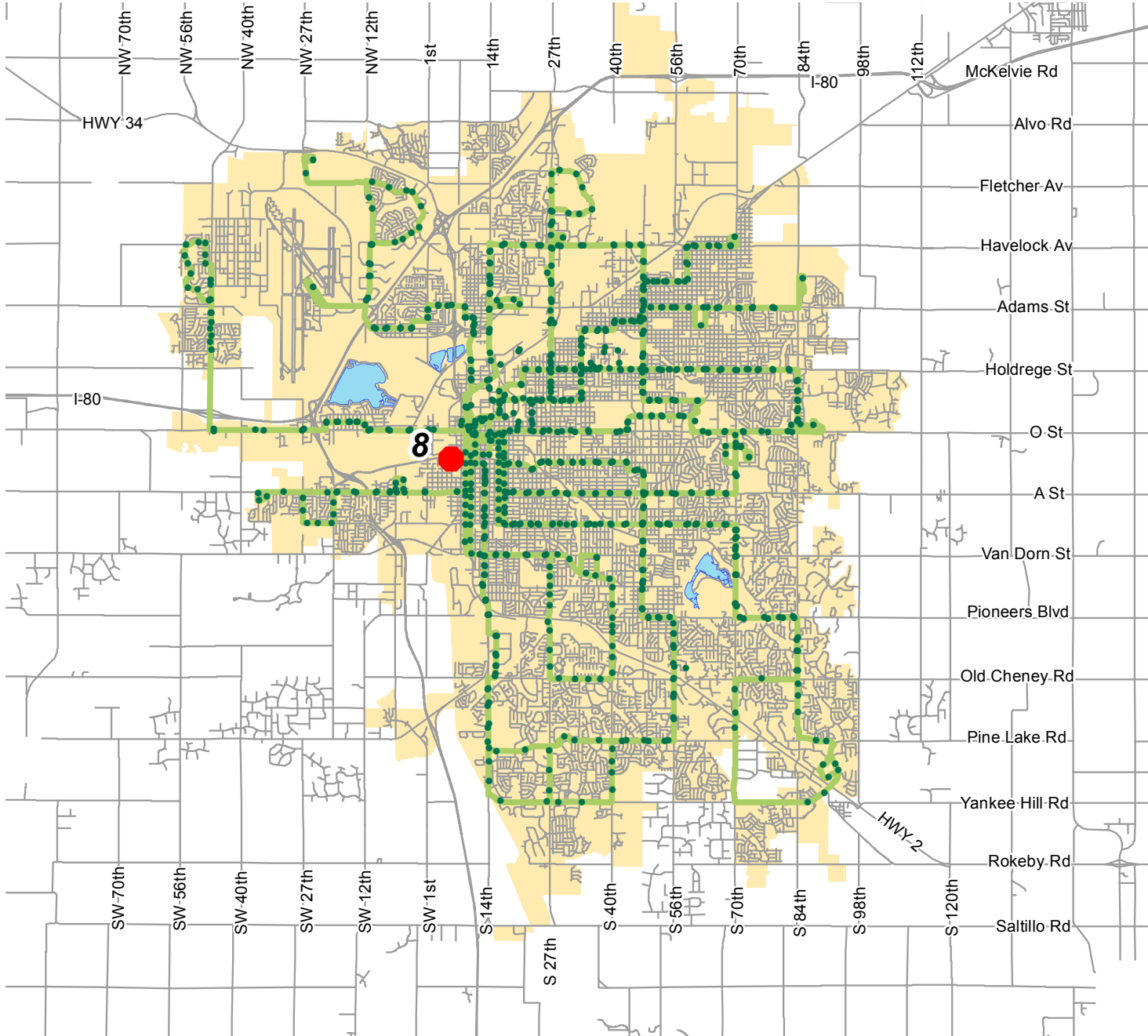
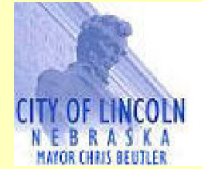




City of Lincoln: StarTran

Lincoln Metropolitan Planning Organization
Transportation Improvement Program

Star Tran
FY 2021 - 2024



- #1 Purchase/Financing of Full Size Buses
- #2 Purchase 4 Handivans
- #3 Bus Stop Amenities (required by FTA)
- #4 Security Enhancements (required by FTA)
- #5 Purchase of Supervisor Vehicle
- #6 Computer Hardware and Software
- #7 Shop Tools/Equipment
- #8 Building Renovations/Improvements
- #9 Maintenance Facility Construction/Relocation
- #10 Multi Modal Center/Feasibility Study
- #11 Predictive Maintenance
- #12 Transit Development Plan Update
- #13 Autonomous Shuttles (Micro-AV)



Consult the detailed project descriptions and funding summary for further information.

2021-2024 LINCOLN CITY/LANCASTER COUNTY, NEBRASKA		AGENCY: City of Lincoln																	
TRANSPORTATION IMPROVEMENT PROGRAM		DIVISION: StarTran																	
PROJ NO (Map)	PROJECT (Location & Distance) (Improvement Description) (Control Number)	PROGRAMMED EXPENDITURES & FUNDING SOURCES (FS)																	
		PRIORITY PROJECTS					COST BEYOND PROGRAM	TOTAL PROJECT COSTS											
		PRIOR FISCAL YEARS	FS	2020-21	FS	2021-22			FS	2022-23	FS	2023-24	FS						
1	<p>Since the public acquisition of the Lincoln City Lines in 1971, StarTran has been providing efficient, convenient and economical public transportation services. The services provided comply with the current 2040 Long Range Transportation Plan - 2016 Update. Previous capital improvement programs have included equipment essential in StarTran's provision of services. The FY 2021-2024 TIP describes capital items which will afford the opportunity for continued improvement of StarTran services. Future years include continued replacement of StarTran transit vehicles and purchase of associated equipment/items.</p> <p>Purchase / Financing of Full Size Buses and Related Equipment A phased purchase of full-size replacement transit buses is identified as follows:</p> <table border="0"> <tr> <td><u>Buses Purchased</u></td> <td><u>Funding Accumulated</u></td> <td><u>Potential Replacement</u></td> <td><u>Delivery</u></td> </tr> <tr> <td>8</td> <td>FY 2019-20 through FY 2020-21</td> <td>8-2006 Gillig Buses</td> <td>CY2022</td> </tr> </table> <p>FTA requires that full-size transit vehicles have a twelve-year economic life, although StarTran typically operates buses more than twelve years before replacement. All of the current buses being replaced as indicated above will have exceeded the required twelve years of operation. An analysis of the structural and engine conditions of the StarTran fleet is conducted annually, which is utilized to develop the replacement schedule of StarTran buses. The above phased bus replacement schedule is in compliance with the most recent analysis and bus replacement program.</p> <p>8 Full Size Buses & 2 Charging Stations</p>	<u>Buses Purchased</u>	<u>Funding Accumulated</u>	<u>Potential Replacement</u>	<u>Delivery</u>	8	FY 2019-20 through FY 2020-21	8-2006 Gillig Buses	CY2022										
<u>Buses Purchased</u>	<u>Funding Accumulated</u>	<u>Potential Replacement</u>	<u>Delivery</u>																
8	FY 2019-20 through FY 2020-21	8-2006 Gillig Buses	CY2022																
	TOTAL	0.0		0.000		5,531.0		0.0		0.0		0.0	5,531.0						
2	<p>Purchase 4 Handivans Providing a high quality service to those with a disability includes purchasing comfortable and accessible vehicles. Funding is to purchase 4 Handivans in FY2021. Handivans will be alternate fueled, and/or fuel efficient vehicles and proposed vehicle types will be reviewed by the Handivan Working Group.</p>																		
	TOTAL	0.0		98.0		0.0		0.0		0.0		0.0	98.0						
3	<p>Bus Stop Amenities (required by FTA) Bus stop amenities (Transit Enhancements) include: benches, shelters, pads, signage, bicycle related equipment, and landscaping. These amenities make a transit system more safe, comfortable, and user friendly. Effective FY2004-05, one percent of the FTA allocation to StarTran is required by FTA to fund transit enhancements. The priority of these funds will be directed towards 1) improving accessibility 2) replacement or improvement of shelters at major boarding locations an 3) adding benches to medium to high use bus stops.</p>																		
	TOTAL	40.0		150.0		420.0		40.0		40.0		0.0	650.0						
4	<p>Security Enhancements (required by FTA) Safety and security is a top priority for StarTran. One percent of the FTA allocation to StarTran is required by FTA to fund security enhancements. Such enhancements will include improved facility surveillance and improved bus camera systems. Improving the perimeter of the StarTran facility through gates and fencing will also be included in this funding.</p>																		
	TOTAL	40.0		115.0		40.0		40.0		40.0		0.0	235.0						

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		PRIORITY PROJECTS					COST BEYOND PROGRAM	TOTAL PROJECT COSTS					
PRIOR FISCAL YEARS	FS	2020-21	FS	2021-22	FS	2022-23			FS	2023-24	FS		
5	Purchase of Supervisor Vehicle Funds are proposed in FY 2020-21 to purchase a replacement supervisor vehicle. In addition to road supervision, this vehicle will be used to transport supplies and schedules, carry patrons as necessary, and will be driven in inclement weather. Propulsion type, including gasoline, electric and CNG, will be evaluated based on lifecycle costs and availability.												
							64.0 FA 16.0 SR		80.0		0.0	80.0	
	TOTAL	0.0		0.0		0.0			80.0			0.0	80.0
6	Computer Hardware and Software Up-to-date computer hardware and software is vital to making StarTran more efficient. Automated scheduling of both fixed route and Handivan as well as Automatic Vehicle Location (AVL) equipment will ensure that routes are efficiently scheduled. Funds are proposed in FY20-21 and FY 21-22 to purchase replacement AVL equipment for all vehicles, upgrade software for the AVL system, purchase tablets for our Handivans, purchase GPS units for Handivan operators, upgrade paratransit software (Handivan), purchase fleet facility parking software, predictive maintenance software, and purchase an automated fixed route scheduling system.												
		1,040.0 FA 260.0 SR		80.0 FA 20.0 SR		80.0 FA 20.0 SR							
	TOTAL	1,300.0		100.0		100.0		0.0		0.0			200.0
7	Shop Tools / Equipment Funds are proposed every year for continued routine upgrade and replacement of tools and equipment, as well as for replacement due to unexpected breakage. Such tools and equipment include an air compressor, vehicle lifts and a floor scrubber.												
		15.0 FA 3.8 SR		28.0 FA 7.0 SR		28.0 FA 7.0 SR		16.0 FA 4.0 SR		16.0 FA 4.0 SR			
	TOTAL	18.8		35.0		35.0		20.0		20.0		0.0	110.0
8	Building Renovations / Improvements Prior appropriations will be used to fund current/future projects. Funds are proposed for concrete replacement, floor painting, atomic clock system, new garage doors, LED lighting throughout all facilities, and a new HVAC system.												
		160.0 FA 40.0 SR											
	TOTAL	200.0		0.0		0.0		0.0		0.0			0.0
9	Maintenance Facility Construction / Relocation Funds are proposed to update feasibility study, purchase land and build a fast fuel compressed natural gas (CNG) station. Environmental work and preliminary design of bus storage, maintenance and administration functions will also take place. Note: Anticipate additional federal funds in FY 2021-22 via the FTA Buses and Bus Facility Program.												
	TOTAL	0.0		4,530.5 FA 2,216.0 SR		0.0		0.0		0.0			6,746.5
10	Multi Modal Center - Feasibility Study The Multimodal Transit Transfer Center (MTTC) project will improve travel options to central business district destinations, improve connections between different travel modes, and improve bus passenger amenities including covered passenger boarding areas and interior passenger amenities. Comfort and safety will be important aspects of this project and public/private partnerships and economic development opportunities will also be considered. Following completion of the feasibility study, environmental and design work will be the next steps.												
	TOTAL	0.0		360.0 FA 90.0 SR		450.0		0.0		0.0			450.0
11	Predictive Maintenance Predictive maintenance will extend the life of buses, reduce capital costs, reduce operating costs, reduce inventory costs, and most importantly will reduce service disruptions due to mechanical failures. A predictive maintenance program identifies when parts will fail and then schedules these parts for replacement before they fail. To begin the program additional maintenance is needed up front. Software then determines when parts should be replaced.												
	TOTAL	0.0		200.0 FA 50.0 SR		250.0		0.0		0.0			250.0
12	Transit Development Plan Update Funds will be used to update the Transit Development Plan. This study will be the compass to guide StarTran over a five to six year period.												
	TOTAL	0.0		176.0 FA 44.0 SR		220.0		0.0		0.0			220.0

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		PRIORITY PROJECTS						COST BEYOND PROGRAM	TOTAL PROJECT COSTS				
		PRIOR FISCAL YEARS	FS	2020-21	FS	2021-22	FS			2022-23	FS	2023-24	FS
13	Autonomous Shuttles (Micro-AV) Autonomous vehicle technology is poised to increase mobility options for individuals around the world and Lincoln is establishing itself as a community at the forefront of using these technologies for the good of its people. Deployment of lease autonomous shuttles will be tested with ambassadors on board during the pilot project.												
	TOTAL	200.0	SR	200.0	SR	200.0	SR	200.0	SR	200.0	SR	0.0	800.0
	State / Federal	1,279.0		5,669.8		5,161.0		144.0		80.0			11,054.8
	General Revenue	0.0		0.0		0.0		0.0		0.0			0.0
	Special Reserves	519.8		2,694.7		1,165.0		236.0		220.0			4,315.7
	TOTAL	1,798.8		8,364.5		6,326.0		380.0		300.0		0.0	15,370.5
	OPERATIONS FUNDING SOURCE SUMMARY												
	Fixed Route Operations & Specialized Transportation Services for Lincoln, NE			1,350.0		1,350.0		1,350.0		1,350.0			5,400.0
	Section 5307 Preventative Maintenance			75.0		75.0		75.0		75.0			300.0
	Section 5307 Operating and JARC - StarTran			12.0		12.0		12.0		12.0			48.0
	Section 5307 Operating and JARC - Lincoln Literacy			280.0		280.0		280.0		280.0			1,120.0
	Section 5307 ADA			1,100.0		944.0		897.0		907.0			3,848.0
	NE (State Revenue/Aid)			7,100.0		7,150.0		7,200.0		7,250.0			28,700.0
	GR (General Revenues - Local Funds)			3,150.0		3,150.0		3,150.0		3,150.0			12,600.0
	SC (Service Charges - Local Funds)			2,694.7		1,165.0		236.0		220.0			4,315.7
	TOTAL	0.0		13,067.0		12,961.0		12,964.0		13,024.0		0.0	52,016.0
	TOTALS FOR STARTRAN FUNDING												
	FEDERAL FUNDING												
	Federal			5,669.8		5,161.0		144.0		80.0			11,054.8
	Section 5307 Preventative Maintenance			1,350.0		1,350.0		1,350.0		1,350.0			5,400.0
	Section 5307 Operating and JARC			87.0		87.0		87.0		87.0			348.0
	Section 5307 ADA			280.0		280.0		280.0		280.0			1,120.0
	SUB-TOTAL FEDERAL FUNDING	0.0		7,386.8		6,878.0		1,861.0		1,797.0		0.0	17,922.8
	STATE FUNDING												
	NE (State Revenue/Aid)			1,100.0		944.0		897.0		907.0			3,848.0
	State / Federal												0.0
	SUB-TOTAL STATE FUNDING	0.0		1,100.0		944.0		897.0		907.0		0.0	3,848.0
	LOCAL FUNDING												
	GR (General revenues - Local Funds)			7,100.0		7,150.0		7,200.0		7,250.0			28,700.0
	SC (Service Charges - Local Funds)			3,150.0		3,150.0		3,150.0		3,150.0			12,600.0
	Special Reserves (SR)			2,694.7		1,165.0		236.0		220.0			4,315.7
	SUB-TOTAL LOCAL FUNDING	0.0		12,944.7		11,465.0		10,586.0		10,620.0		0.0	45,615.7
	TOTAL	0.0		21,431.5		19,287.0		13,344.0		13,324.0		0.0	67,386.5
	Notes: Revenue & cost estimates use an inflation rate of 3%												
	STATUS OF PREVIOUS YEARS PROJECTS												
	Projects Completed or Under Contract												
	Purchase/Financing of Full Size Buses												
	Bus Stop Amenities												

