City of Burien, Washington
Six-Year Transportation Improvement Program
2020~~1~~ - 2025~~6~~

Burien

Resolution # ~~416~~
Exhibit "A"

EXHIBIT-A

CITY OF BURIEN
SIX-YEAR TRANSPORTATION IMPROVEMENT PROGRAM

2020~~1~~-2025~~6~~

Introduction

The Six-Year Transportation Improvement Program (TIP) is a mid-range planning document that is annually updated based on needs and policies identified through a variety of sources. Project and financial development involve interactions with many groups and agencies at the local, regional, state, and federal levels. It represents Burien's current list of needed projects that may begin work in the next six years.

The primary importance of the Six-Year TIP is to act as a planning tool for the development of transportation facilities within the City. It is used to coordinate transportation projects with our utility districts and other agencies. Staff has evaluated last year's TIP with respect to the new Transportation Master Plan to ensure that the new TIP is coordinated with the TMP's goals and the multimodal layered network concept. In most cases, local projects must be included in the TIP to be eligible for state and federal grant programs.

Mandated by State Law

State law requires that each city develop a local TIP and that it be updated annually (RCW 35.77.010). In order for cities to compete for transportation funding grants from Federal and State sources most granting agencies require that projects be included in the TIP.

City of Burien
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Project No.	Name of Project	Project Limit	Project Description	Potential Funding Sources	Priority, TMP Category*	Total Length of Street in feet	Cost	Included in Current Budget
1.0	1st Avenue South-Phase 3	SW 128th to SW 140th Street	Reconstruct roadway to Principal Arterial standards, including pedestrian, stormwater detention and water quality facilities, center medians and left-turn lanes, signal improvements and interconnections, landscaping and irrigation, and driveway consolidation where feasible. Reconstruct intersection at SW 128th St. and add protected left-turn phasing at SW 136th St. intersections. Overhead to underground utility conversion. Major Drainage Replacement (MDR).	TIB PSRC	High A,F,P,T	4,000	~~10.5~~ 21.6 M	~~X Design Only~~
2.0	1st Avenue South-Phase 4	SW 128th to SW 116th Street	Reconstruct roadway to Principal Arterial standards, including pedestrian, stormwater detention and water quality facilities, center medians and left-turn lanes, signal improvements and interconnections, landscaping and irrigation, and driveway consolidation where feasible. Overhead to underground utility conversion. MDR.	TIB PSRC	High A,F,P,T	4,000	11.4 M	
3.0	S 136th Street **(Program A)**	1st Avenue South to DMMD	Bicycle lanes on both sides. Repair inadequate and non-ADA portion of existing sidewalk and fill in gaps in sidewalk. Evaluate appropriate street tree options.	Legislature PSRC	High B,P	4,800	1.37M	X Design Only
4.0	SW 136th Street	1st Avenue South to Ambaum Blvd SW	Reconstruct road to include storm drainage, bike lanes, parking, curb, gutter and sidewalks.	Legislature PSRC TIB	High A,B,P	3,600	9.98M	

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5.0	8th Avenue South **(Programs A,G)**	S 128th Street to S 136th St	Pedestrian access project. Sidewalk, curb and gutter, bike lanes, drainage, landscaping and illumination. Note: Consider phases along this corridor based on funding sources.	SRTS	High B,P	2,700	1.16M	
6.0	8th Avenue South **(Programs A,G)**	S 136th Street to Des Moines Memorial Dr	Reconstruct road to include curb, gutter, sidewalks, bicycle lanes, parking, drainage, landscaping, and illumination. Note: Consider phases along this corridor based on funding sources.		High A,B,P	5,300	16.8M	
7.0	South 152nd Street **(Program A)**	1st Avenue South to 8th Ave S	Sidewalks on both sides of street. Fill in gaps in intermittent sidewalk and ensure implementation of American with Disabilities Act (ADA) standards. Bicycle lanes on both sides of street. Connect to Highline High School.	SRTS TIB	High B,P	2,700	1.26M	
8.0	South 152nd Street	8th Ave S to Des Moines Memorial Dr	Existing three intersections (8th Ave S/S 152nd St, DMMD/8th Ave S, and S 152nd St/DMMD) should be evaluated for comprehensive revisions to improve safety and general awkwardness; consider elimination of an intersection.	City Economic Develop-ment TIB	High A,B,F,P	250	0.79M	

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9.0	Ambaum Blvd SW Corridor Pedestrian Safety Study	North City Limit to 1st Avenue South	Phase 1 studies safety, capacity, & non-motorized issues. Includes evaluation of all mid-block crosswalks for removal or enhancement. Phase 2 designs and constructs the Phase 1 recommendations.	City HSIP	High A,B,F,T	15,000	3.12M	
10.0	4th Avenue SW **(Program A)**	SW 156th Street to SW 160th St	Pedestrian access project. Sidewalk on east side, curb and gutter, bike lanes, drainage, landscaping and illumination.	SRTS	High B,P	1,370	1.37M	X Design Only
11.0	4th Avenue SW & SW 148th Street	Intersection	Upgrade existing signal to include an eastbound right-turn overlap phase and protected left turns. Consider combining with 32 for funding.	City METRO SCL	High A		2.25M	X Design & ROW
12.0	6th Ave SW & SW 148th Street	Intersection	New Signal to add interconnect and protected left turn. Overhead to underground utility conversion. MDR. Consider combining with 31 for funding.	City SCL	High A,P		1.5M	X Design & ROW
13.0	SR 518/Des Moines Memorial Drive Westbound On-Ramp	Interchange	Construct westbound on-ramp from SR 518 to DMMD. Note: Ensure design is consistent with the DMMD Corridor Management Plan.	TIB PSRC Legislature	High A,F		73.5M	
14.0	Northeast Redevelopment Area (NERA)	NERA	Construct new streets and signals as envisioned in the Northeast Redevelopment Area (NERA) Plan. Improve and create pedestrian connections. Area generally bounded by 8th Ave S, S 138th St, Des Moines Memorial Drive and SR 518.	City FAA Developer	High A,F,P		3.68M	X Design Only

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Project No.	Name of Project	Project Limit	Project Description	Potential Funding Sources	Priority, TMP Category*	Total Length of Street in feet	Cost	Included in Current Budget
15.0	Pedestrian and Bicycle Facilities **(Program A)**	Citywide	Construct bicycle/pedestrian/shared use facilities in unopened rights of way that are not being used for, and not planned to be used for, vehicular access.	City CDBG SRTS	High B,P		0.06M	
16.0	Pedestrian Access Near Schools Study **(Program A)**	Citywide	2 Phases. Phase 1 will evaluate and prioritize pedestrian access needs near schools, giving consideration to parking and surface water impacts. Includes evaluation of all existing school crossings for removal or enhancement. Phase 2 designs and constructs the Phase 1 recommendations.	City HSIP SRTS	High B,P		3.36M	
17.0	Speed Radar Signs	15200 block of southbound Maplewild Ave, 12000 block of 5th Ave S both directions	Install speed radar signs at selected locations.	City HSIP	High A		0.12M	
18.0	SW 132nd St Trail Completion **(Program A)**	1st Ave SW to 1st Ave S	Install a multi-use bike path on unopened right of way. Install a pedestrian-actuated HAWK signal on 1st Ave S. Completes the physical connection for the 8th Ave SW to 1st Ave S neighborhood bikeway.	City CDBG PBP	High B,P	300	0.73M	
19.0	4th Ave SW Bike Lanes **(Program A)**	SW 116th St to SW 128th St	Restripe 4th Ave SW to provide bike lanes and parallel parking	City	High A,B	4,000	0.03M	X Const.

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Project No.	Name of Project	Project Limit	Project Description	Potential Funding Sources	Priority, TMP Category*	Total Length of Street in feet	Cost	Included in Current Budget
20.0	SW 152nd St Downtown Sharrows **(Program A)**	10th Ave SW to 1st Ave S	Pavement markings to provide sharrow lanes and restripe parking for back-in angle parking.	City	High A,B	3,300	0.17M	
21.0	S 116th St Mini Roundabout	24th Ave S	Reconfigure the intersection with a mini roundabout.	City	High A		0.18M	
22.0	160th St Corridor Improvements	Des Moines Memorial Drive to 4th Ave SW	Implement traffic operations improvements on the 160th St corridor between DMMD and 4th Ave SW. Construction will improve traffic operations and vehicle progression between the two intersections and along the corridor.	City	High A,B,F	3,800	1.5M	~~X Study~~
23.0	Pedestrian Improvements for 21st Ave SW Mid-Block Crosswalk **(Program A)**	Between SW 152nd St and SW 154th St	Install a Rectangular Rapid Flashing Beacon and bulb-outs to serve the existing mid-block crosswalk.	CDBG	High B,P		0.080M	
~~24.0~~	~~5th Ave S Traffic Calming~~	~~S 116th St to S 126th St~~	~~Evaluate and construct traffic calming features such as compact roundabouts at intersections, mid-block chicanes, narrowed lanes, and integrated LID features.~~	~~City HSIP~~	~~High A,P~~	~~3,400~~	~~1.40 M~~	~~X Design & Const.~~

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Project No.	Name of Project	Project Limit	Project Description	Potential Funding Sources	Priority, TMP Category*	Total Length of Street in feet	Cost	Included in Current Budget
~~25.0~~ 24.0	Downtown Core Crosswalks	Downtown Urban Growth Center	2 Phases. Phase 1 evaluates for removal or enhancement all mid-block crossing locations not included in other TIP projects. Phase 2 designs and constructs the Phase 1 recommendations.	City HSIP	High A,P		$1.70M	
~~26.0~~ 25.0	SW 150th St / 5th Ave SW Ped Improvements for Mid-Block Crosswalk	Between 4th Ave SW & 5th Ave SW	Install a marked crosswalk with enhanced pedestrian actuated crossing improvements to serve high-density housing. Possibly combine with METRO bus stop improvements / upgrades.	City METRO	High P,T		$0.35M	
~~27.0~~ 26.0	SW 144th Street and SW 146th Street	Ambaum Blvd SW to 21st Avenue SW	Reconstruct road to include storm drainage, bike lanes, curb, gutter and sidewalks.		High B,P	4,200	13.23M	
~~28.0~~ 27.0	21st Avenue SW	SW 146th to SW 164th Street	Reconstruct road including storm drainage, bicycle lanes, transit access, curb, gutter and sidewalks.		Medium B,P,T	6,780	2.46M	
~~29.0~~ 28.0	SW 152nd St	10th Avenue SW to 22nd Avenue SW	From 10th Avenue SW to 20th Avenue SW: curb and gutter; 6- foot sidewalk (evaluate parking at time of design or open house). Bicycle movement through this area shall be accommodated by shared bicycle/vehicle usage, and signage.		Medium B,P	4,000	12.6M	
~~30.0~~ 29.0	South and SW 146th St **(Program A)**	Ambaum Blvd SW to 8th Ave S	Repair existing sidewalks and ensure implementation of ADA standards for ramps, stripe bicycle lanes or sharrows.		Medium B,P	6,200	2.1M	

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Project No.	Name of Project	Project Limit	Project Description	Potential Funding Sources	Priority, TMP Category*	Total Length of Street in feet	Cost	Included in Current Budget
~~31.0~~ 30.0	16th Avenue SW	SW 160th to SW 168th Street	Reconstruct road including storm drainage, curb, gutter and sidewalks, bicycle lanes or sharrows. Major drainage replacement.		Medium B,P	2,728	8.61M	
~~32.0~~ 31.0	South Normandy Road	1st Avenue South to Des Moines Memorial Drive	Reconstruct road including storm drainage, curbs, gutters, bike lanes and sidewalks. Note: Consistent with DMMD corridor plan.		Medium B,P	1,900	7.73M	
~~33.0~~ 32.0	SW 150th St **(Program A)**	1st Avenue South to Ambaum Blvd SW	Fill in gaps in intermittent sidewalk and ensure implementation of ADA standards for ramps.		Medium P	3,000	0.95M	
~~34.0~~ 33.0	SW 160th Street **(Program A)**	2nd Avenue SW to 21st Avenue SW	Fill in gaps in intermittent sidewalk and ensure implementation of ADA standards for ramps, stripe bicycle lanes or sharrows.		Medium B,P	6,500	1.89M	
~~35.0~~ 34.0	8th Avenue S/S 146th St	Intersection	New Signal for NERA. Overhead to underground utility conversion. Signal improvement shall be evaluated as NERA develops to see if Manual of Uniform Traffic control Devices (MUTCD) signal warrants are met.	City FAA Developer	Medium A		0.32M	
~~36.0~~ 35.0	S 160th St / 509 Northbound Ramp	Interchange	Coordinate with Washington State Department of Transportation (WSDOT) for this interchange improvements (work with WSDOT to signalize)		Medium A,F		0.42M	

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City of Burien
Six Year Transportation Improvement Program
20201-20256

Project No.	Name of Project	Project Limit	Project Description	Potential Funding Sources	Priority, TMP Category*	Total Length of Street in feet	Cost	Included in Current Budget
~~37.0~~ 36.0	SW 128th St Improvements **(Program A)**	Ambaum Blvd to Des Moines Memorial Drive	Construct roadway safety/capacity improvements recommended from corridor study to be completed in 2018. Confirm future traffic operations meet standards prior to implementation.	City	Medium A	4,000	0.10M	
~~38.0~~ 37.0	Replacement Traffic Signal	1st Ave S at 152nd St	Replace the aging traffic signal poles, mast arms, signal heads, controller cabinet and service cabinet.	City, HSIP	Medium A		0.450M	
~~39.0~~ 38.0	Des Moines Memorial Drive (DMMD)	South 165th Street to Normandy Road	Reconstruct and widen roadway to 36-44 feet to include storm drainage, landscaping, bicycle lanes, street lighting, channelization, signal modification, and paving. Install curb, gutter, and sidewalks. Construct center two-way left turn lane and consolidate driveways in commercial area. Note: Consistent with Des Moines Memorial Drive corridor plan and Lake to Sound Trail.		Low A,B,P,T	3,676	12.6M	
~~40.0~~ 39.0	26th Avenue SW	SW 116th Street to Shorewood Drive SW	Reconstruct road to include curb and gutter, sidewalks, drainage, and landscaping, bicycle lanes or sharrows. Major Drainage Replacement MDR.		Low B,P	2,500	8.30M	

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Project No.	Name of Project	Project Limit	Project Description	Potential Funding Sources	Priority, TMP Category*	Total Length of Street in feet	Cost	Included in Current Budget
~~41.0~~ 40.0	Shorewood Drive SW	26th Avenue SW to Ambaum Blvd SW, including SW 130th Street	Road reconstruction, including storm drain improvements, pedestrian access, or other infrastructure that can be built within the existing pavement footprint located in the right-of-way of the City of Burien. Bicycle movement through this area shall consider uphill bike lane only or accommodated by shared bicycle/vehicle usage, and signage.		Low B,P	8,580	27.03M	
~~42.0~~ 41.0	8th Avenue SW **(Program A)**	Ambaum Blvd SW to Sylvester Rd SW	Reconstruct road to include storm drainage, bike lanes, parking, curb, gutter and sidewalks.		Low A,B,P	4,800	15.12M	
~~43.0~~ 42.0	Marine View DR	SW 164th Street to 28th Avenue SW	Reconstruct road including storm drainage, bicycle lane, curb, gutter and sidewalks.		Low A,B	3,000	9.45M	
~~44.0~~ 43.0	8th Avenue South **(Programs A,G)**	S 128th Street to S 136th St	Reconstruct road to include curb, gutter, sidewalks, bicycle lanes, parking, drainage, landscaping, and illumination. Note: Consider phases along this corridor based on funding sources.		Low A,B,P	2,700	7.35M	
~~45.0~~ 44.0	8th Avenue South **(Programs A,G)**	S 112th Street to S 128th St	Pedestrian access project. Sidewalk, curb and gutter, bike lanes, drainage, landscaping and illumination. Note: Consider phases along this corridor based on funding sources.		Low B,P	5,300	16.8M	
~~46.0~~ 45.0	South 160th Street **(Program A)**	1st Ave South to Des Moines Memorial Drive	Fill in gaps in intermittent sidewalk and ensure implementation of ADA standards for ramps.		Low P	2,604	1.39M	

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Six Year Transportation Improvement Program
2020~~1~~-202~~5~~6

Project No.	Name of Project	Project Limit	Project Description	Potential Funding Sources	Priority, TMP Category*	Total Length of Street in feet	Cost	Included in Current Budget
~~47.0~~ 46.0	SW 116th St **(Program A)**	26th Avenue SW to 12th Avenue SW	Fill in gaps in intermittent sidewalk and ensure implementation of ADA standards for ramps, stripe bicycle lanes or sharrows.		Low B,P	3,790	0.84M	
~~48.0~~ 47.0	4th Avenue SW **(Program A)**	SW 156th Street to SW 160th St	Reconstruct road including sidewalk on west side, storm drainage, curb, gutter, and sidewalks, sharrows.		Low B,P	1,370	4.2M	
~~49.0~~ 48.0	SW 159th Street and 19th Avenue SW **(Program A)**	SW 21st Avenue to SW 160th St	Reconstruct road including storm drainage, street lighting, parking, curb, gutter, bike lanes and sidewalks.		Low A,B,P,T	700	2.21M	
~~50.0~~ 49.0	28th Avenue SW and SW 170th St **(Program A)**	Marine View Drive to SW 22nd Avenue SW	Reconstruct road including storm drainage, pedestrian access, curb, gutter, bike lanes and sidewalks.		Low A,B,P	3,150	9.92M	
~~51.0~~ 50.0	S 174th Street / Des Moines Memorial Dr	1st Avenue S to 8th Avenue S	Reconstruct road including storm drainage, street lighting, curb, gutter, bike lanes and sidewalks. Overhead to underground utility conversion.		Low A,B,F,P,T	2,250	7.09M	
~~52.0~~ 51.0	Military Road S	S 128th St to Des Moines Memorial Drive	Reconstruct roadway to Principal Arterial standards, including pedestrian, stormwater detention and water quality facilities, center medians and left-turn lanes, signal improvements and interconnections, landscaping and irrigation, and driveway consolidation where feasible.		Low A,F,P,T	5,700	17.85M	

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Six Year Transportation Improvement Program
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Project No.	Name of Project	Project Limit	Project Description	Potential Funding Sources	Priority, TMP Category*	Total Length of Street in feet	Cost	Included in Current Budget
~~53.0~~ 52.0	SW 172nd St / Sylvester Rd SW	SW 171st Street to 16th Avenue SW	Road reconstruction, including storm drain improvements, pedestrian access, or other infrastructure that can be built within the existing pavement footprint located in the right-of-way of the City of Burien. Bicycle movement through this area shall be accommodated by shared bicycle/vehicle usage, and signage.		Low A,B,P	7,500	23.63M	
~~54.0~~ 53.0	Maplewild Avenue SW	22nd Avenue SW to SW 171st Street	Road reconstruction, including storm drain improvements, pedestrian access, or other infrastructure that can be built within the existing pavement footprint located in the right-of-way of the City of Burien. Bicycle movement through this area shall be accommodated by shared bicycle/vehicle usage, and signage.		Low A,B,P	9,700	30.45M	
~~55.0~~ 54.0	Sylvester Road SW	6th Avenue SW to 8th Pl SW	Reconstruct road to include curb and gutter, sidewalks, bike lanes or sharrows, drainage, landscaping and illumination. Overhead to underground utility conversion.		Low A,B,P	1,900	5.99M	
~~56.0~~ 55.0	S 146th St/5th Pl S Intersect. Improv. **(Program A)**	Intersection	Evaluate stop control and/or pedestrian crossing enhancements in conjunction with final buildout of Matheson Park.	City	Low P		0.16M	
~~57.0~~ 56.0	SW 157th St	SW Ambaum Blvd. to 1st Ave S	Install storm water pipe in open ditches on north side of the road and pave the surface for roadway and parking use.	City	Low A	400	0.20M	

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City of Burien
Capital Programs
20201-20256

Program No.	Name of Program	Program Description	Funding Sources
A	Pedestrian and Bicycle Facilities	A primarily grant-funded program to construct bicycle/pedestrian/shared use facilities throughout the City. Includes pedestrian actuated flashers and beacons.	Transportation CIP CDBG SRTS
B	Annual Overlay	Maintain and preserve the integrity of the City's existing roadway surface through a combination of repair to major pavement failures, crack sealing of existing pavements to extend their usable life and overlay pavements that are structurally declining. Projects are prioritized through the City Pavement Management System. Update pavement condition ratings every 3-5 years.	Transportation CIP
C	ADA Barrier Mitigation	Upgrades curb ramps, pedestrian push buttons and pedestrian access routes required by the Americans with Disabilities Act. Priorities established by the City's ADA Transition Plan.	Transportation CIP CDBG WSDOT
D	Guardrail and Safety Improvements	Upgrades existing guardrail or installs new where warranted. Includes supplemental signing and/or pavement markings.	Street Fund Street maintenance
E	Channelization Improvements	Maintenance of existing striping and pavement markings, or revisions and additions at selected locations not covered by Program A.	Street Fund Street maintenance
F	Traffic Signal Management	Maintain and operate traffic signals. Update outdated signal controllers and interconnect selected corridors with fiber optic cable. Evaluate signal controller cabinets for sight distance impacts.	Transportation CIP Street Fund Signal Maint & Operations
G	Street Lighting and Illumination Program	Operation, maintenance replacement and repair of street light systems. Includes capital upgrades and conversion to LED luminaires.	Street Fund Seattle City Light Puget Sound Energy
H	Residential Traffic Calming	A primarily grant-funded program to install recommended traffic calming facilities at identified locations around the City: pavement markings, speed bumps and tables, speed radar signs, traffic circles, chicanes, etc. Includes school zone safety improvements (i.e. Hilltop, Southern Heights, Cedarhurst).	WSDOT TIB PBP SRTS CDBG