



CITY OF KIRKLAND
Department of Finance & Administration
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MEMORANDUM

To: Kurt Triplett, City Manager

From: Tracey Dunlap, Deputy City Manager
Michael Olson, Director of Finance and Administration
Tom Mikesell, Financial Planning Manager
Kyle Butler, Senior Operations & Financial Analyst

Date: October 24, 2016

Subject: 2017 to 2022 Capital Improvement Program

RECOMMENDATION:

City Council continues discussion and provides direction for finalizing the 2017-2022 Capital Improvement Program (CIP), which is scheduled to be adopted with the 2017-2018 Biennial Budget at the December 13th City Council meeting.

BACKGROUND:

The Council was presented with the Preliminary 2017-2022 CIP at the June 21, 2016 Council Meeting. The changes to the Preliminary 2017-2022 CIP detailed below include those identified by staff subsequent to the meeting. Council also directed staff to research Peter Kirk Pool Options and requested a listing of revenues that were set aside in later years of the CIP to meet potential future obligations of the Surface Water Design Manual and Critical Areas Ordinance. The changes and answers to the follow up questions are detailed below.

TRANSPORTATION

Project Modifications

- **ST 0006 - Annual Street Preservation Program:** The six-year total reduced from \$10,500,000 to \$9,750,000 with \$750,000 in 2017 moving to two new Street Preservation Projects identified for completion in 2017. See *New Projects* below (ST 0006 004 and ST 0006 005) for further description. Note that there is no overall net change for the Annual Street Preservation Program.
- **NM 0095 - 124th Avenue NE Sidewalk Improvements:** Increased budget by \$300,000, funded with \$200,000 from Impact fees and \$100,000 from Surface Water Reserves, due to updated cost estimate now that 30% design is complete. The increases in City revenues for this project are from decreases in other projects, which are offset by external/pending revenue.
- **NM 0098 - Kirkland Avenue Sidewalk Improvements:** Total budget changed from \$800,000 to \$500,000 due to an updated cost estimate based on a modified/reduced scope of work, due in large part to extensive and recent redevelopment activities along the corridor. Project timing changed from 2018 to 2019-2020 due to competing projects and fund balancing.
- **NM 0115 - CKC Emergent Projects Opportunity Fund:** Project reintroduced to current CIP with funding for 2017 and 2018 (\$100,000 each year for two years, a total of \$200,000) from REET 2.

- **TR 0098 – NE 132nd St/116th Way NE (I-405) Intersection Improvements:** Minor technical correction for rounding error.

New Projects

- **ST 0006 004 - Street Levy Street Preservation, Central Way:** The design for a grind and patch modification of wheelchair ramps and overlay of Central Way after funds became available through a federal Street Preservation design-only grant. City grant match funds are available through the Annual Street Preservation Program for 2017. Overlay of the project will occur through the Street Preservation Program in an outer year to be coordinated with the Kirkland Urban Redevelopment. Total project budget of \$214,000 includes \$184,000 in grant and \$30,000 in City Street Preservation funding.
- **ST 0006 005 - Totem Lake Blvd Roadway Repair:** The design and construction of Totem Lake Boulevard, between NE 124th Street and near 120th Ave NE due to its current condition. Funding is available through the Annual Street Preservation Program for 2017. The rebuild and overlay of the project will occur in coordination with the Village at Totem Lake Redevelopment. Total project budget of \$720,000 is Annual Street Preservation funding shifted from the ST 0006 master project to a specific location sub-project.
- **NM 0118 - NE 128th Street / 139th Avenue NE Non-Motorized Improvements:** Construction of sidewalk, curb and gutter, and bike lanes on uphill side of street along with storm pipe and associated catch basins. The project will also include enhanced street/pedestrian lighting, private driveway adjustments, signage, and landscape restoration. The total project budget is \$800,000 with \$504,000 in developer contributions, and the remainder funded through project funding shifts within the Transportation CIP, assuming higher external revenue as the offset.
- **NM 0119 - Downtown Pedestrian Access Study:** A study to improve pedestrian safety and access, while potentially reducing delay for transit and motorized vehicles. The study would include evaluating pedestrian crossings on Lake Street, Central Way and Kirkland Avenue. It would also study the signalized intersections at Central Way and Lake Street, and at Kirkland Avenue and Lake Street. The study would evaluate existing conditions and recommend a set of improvements. Community involvement would be included in the study. Possible outcomes could include traffic signal upgrades, signal phasing modifications, mid-block crossing signalization/relocation, and access management. Funding of \$50,000 is from REET 2.
- **TR 0127 - NE 132nd Street Roundabout:** The construction of a three-legged roundabout at the intersection of NE 132nd Street and 136th Avenue NE in support of redevelopment in the Totem Lake Neighborhood. The total project budget is \$320,000, with \$266,000 in developer contribution (pending recommended approval by the Hearing Examiner on October 27 and City Council approval of the PUD on December 13, 2016) and \$54,000 from repurposed multimodal gas tax revenue, offset by higher external funding assumptions.

		6-Year Funded CIP	Unfunded Future City Revenues	Unfunded External/New Revenue	Total CIP
Preliminary 2017-2022 Transportation CIP		90,095,200	162,119,600	187,663,500	439,878,300
ST 0006	Annual Street Preservation Program	(750,000)			(750,000)
ST 0006 004	Street Levy Street Preservation, Central Way	214,000			214,000
ST 0006 005	Totem Lake Blvd Roadway Repair	720,000			720,000
NM 0095	124th Avenue NE Sidewalk Improvements	300,000			300,000
NM 0098	Kirkland Avenue Sidewalk Improvements	(300,000)			(300,000)
NM 0115	CKC Emergent Projects Opportunity Fund	200,000			200,000
NM 0118	NE 128th Street/139th Ave NE Non-Motorized Improvements	800,000			800,000
NM 0119	Downtown Pedestrian Access Study	50,000			50,000
TR 0098	NE 132nd St/116th Way NE (I-405) Intersection Improvements	(300)			(300)
TR 0127	NE 132nd Street Roundabout	320,000			320,000
Subtotal Changes to Preliminary 2017-2018 Transportation CIP		1,553,700	-	-	1,553,700
Proposed 2017-2018 Transportation CIP		91,648,900	162,119,600	187,663,500	441,432,000

PARKS

Project Modifications

- PK 0133 100 – Dock/Shoreline Renovations:** This project was reduced by \$150,000 to transfer Park Levy monies into the Parks Facilities Sinking Fund to fund investments in PK 0151 discussed below.
- PK 0133 300 – Park Land Acquisition:** This project was reduced by \$150,000 to transfer Park Levy monies into the Parks Facilities Sinking Fund to fund investments in PK 0151 discussed below.

New Projects

- PK 0151 – Park Facilities Life Cycle Projects:** This new project is funded by Park Levy funds to establish a reserve for projects that will maintain and enhance existing Parks Facilities (\$958,000 funded by the Parks Facilities Sinking Fund).

		6-Year Funded CIP	Unfunded Future City Revenues	Unfunded External/New Revenue	Total CIP
Preliminary 2017-2022 Parks CIP		16,539,000	58,375,000	70,200,000	145,114,000
PK 0133 100	Dock/Shoreline Renovations	(150,000)			
PK 0133 300	Park Land Acquisition	(150,000)			
PK 0151	Parks Facilities Sinking Fund	958,000			958,000
Subtotal Changes to Preliminary 2017-2018 Parks CIP		658,000	-	-	958,000
Proposed 2017-2018 Parks CIP		17,197,000	58,375,000	70,200,000	146,072,000

2017-2022 Updated Preliminary Capital Improvement Program

With these changes, the 2017-2022 funded CIP total is \$190,596,000 for the six-year period, an increase of \$1.9 million from the preliminary CIP presented in June. A summary of the proposed CIP, reflecting the changes detailed in this memo is included as Attachment A. The total CIP by program, is shown in the following table:

	6-Year Funded CIP	Unfunded Future City Revenues	External/New Revenues	Total CIP
Transportation	91,648,900	162,119,600	187,663,500	441,432,000
Parks	17,197,000	61,575,000	67,000,000	145,772,000
Public Safety	18,385,500	369,100	32,560,400	51,315,000
General Government				
Technology	8,727,600	559,000	-	9,286,600
Facilities	2,583,000	-	-	2,583,000
Subtotal	138,542,000	224,622,700	287,223,900	650,388,600
Surface Water Mgmt	14,552,000	20,079,200	-	34,631,200
Water/Sewer	37,860,000	37,472,800	16,456,000	91,788,800
Utilities Subtotal	52,412,000	57,552,000	16,456,000	126,420,000
Grand Total Proposed CIP	190,954,000	282,174,700	303,679,900	776,808,600
Preliminary CIP	188,742,300	282,174,700	303,679,900	774,596,900
Difference	2,211,700	-	-	2,211,700

The table on the following page details the revenue sources for the updated CIP, incorporating these changes.

**2017-2022 Preliminary Capital Improvement Program
Revenue Sources (in thousands)**

Dedicated Revenue	2017	2018	2019	2020	2021	2022	6-Year Total
Transportation							
Gas Tax	610	622	634	647	660	673	3,846
Gas Tax (Transportation Package)	100	150	200	200	200	200	1,050
Business License Fees	270	270	270	270	270	270	1,620
Real Estate Excise Tax (REET) 1	398	410	422	435	448	461	2,574
Real Estate Excise Tax (REET) 2	1,355	1,342	1,279	1,318	1,358	1,399	8,051
Street & Pedestrian Safety Levy	2,626	2,652	2,679	2,706	2,733	2,760	16,156
Transportation Impact Fees	3,440	2,300	1,000	1,000	1,000	1,000	9,740
Park Impact Fees	-	1,110	750	-	-	-	1,860
King County Park Levy	-	300	300	-	-	-	600
Walkable Kirkland	520	400	400	400	-	-	1,720
Utility Rates	1,026	806	707	500	500	500	4,039
Solid Waste Street Preservation	300	300	300	300	300	300	1,800
REET 2 Reserve	3,158	1,579	480	480	480	480	6,657
REET 1 Reserve	100	-	-	-	-	-	100
External Sources	14,436	3,103	4,440	5,742	2,066	2,050	31,836
Subtotal Transportation	28,339	15,344	13,861	13,998	10,015	10,093	91,649
Parks							
Real Estate Excise Tax 1	215	868	1,438	885	160	160	3,726
Impact Fees	594	796	750	1,750	1,050	1,150	6,090
Parks Levy	1,250	1,250	1,000	823	250	250	4,823
Parks Facilities Sinking Fund	168	146	162	151	162	169	958
REET 1 Reserve	100	-	-	-	-	-	100
External Sources	500	500	500	-	-	-	1,500
Subtotal Parks	2,827	3,560	3,850	3,609	1,622	1,729	17,197
General Government: Technology, Facilities & Public Safety							
General Fund Contributions for:							
Public Sfty. Equip. Sinking Fund	155	173	693	369	246	149	1,785
Technology Equip. Sinking Fund	289	1,197	209	1,051	545	180	3,471
Utility Rates	456	256	256	256	256	256	1,736
Health Fund Transfer	1,000	-	-	-	-	-	1,000
Facilities Life Cycle Reserve	425	554	529	606	279	190	2,583
Maj Sys Replacement Rsv	1,300	-	-	-	-	-	1,300
REET 1 Reserves	772	3,700	-	-	-	-	4,472
General Fund Cash	3,360	1,937	114	174	114	174	5,873
Fire District 41 Reserves	2,656	-	-	-	-	-	2,656
Carryover PY Funds	150	-	-	-	-	-	150
REET 1	-	4,200	-	-	-	-	4,200
Land Sales Proceeds	-	470	-	-	-	-	470
Subtotal General Government	10,563	12,487	1,801	2,456	1,440	949	29,696
Utilities							
Utility Connection Charges	865	865	865	865	865	865	5,190
Utility Rates - Surface Water	1,801	1,872	1,916	2,120	2,139	2,204	12,052
Utility Rates - Water/Sewer	3,764	4,070	4,355	4,698	5,015	5,368	27,270
Reserves	4,450	50	1,500	50	1,450	50	7,550
External Sources	350	-	-	-	-	-	350
Subtotal Utilities	11,230	6,857	8,636	7,733	9,469	8,487	52,412
Total Revenues	52,959	38,248	28,148	27,796	22,546	21,258	190,954

Revenues for Surface Water Design Manual (SWDM) and Critical Areas Ordinance (CAO)

At the June 21 meeting, Council requested a listing of the revenues that were left unprogrammed in outer years to meet potential future CAO/SWDM obligations. Projects were identified in 2017-2018 as placeholders, no adjustment was made in 2019-2020, and funds were left unprogrammed in 2021-2022 in anticipation of needs becoming better defined. The following tables detail the amounts by revenue source and year:

Project Number	Project Title	2017-2018	Funding Source
Transportation			
NM 7777	Annual Non-Motorized CAO/SWDM Surface Water Support	1,600,000	REET 2 Reserves
TR 7777	Annual Traffic CAO/SWDM Surface Water Support	500,000	REET 2 Reserves
Surface Water			
SD 7777	Surface Water CAO/SWDM Support	1,400,000	Surface Water Construction Reserves
Utilities			
WA 7777	Annual Water CAO/SWDM Support	500,000	Water/Sewer Construction Reserves
SS 7777	Annual Sewer CAO/SWDM Support	700,000	Water/Sewer Construction Reserves
Total		4,700,000	

It is worth noting that the amounts listed below do not include the full potential amount of Transportation impact fees that may be available in future years, which is dependent on the scope and timing of future new construction. It also bears mentioning that the amount shown in the table below are in addition to the projects that are funded in 2017-2018 for potential CAO/SWDM obligations.

	2021	2022	Total
Transportation			
Multimodal Transportation	200,000	-	200,000
REET 2	125,000	125,000	250,000
Impact Fees	575,000	725,000	1,300,000
Surface Water	180,000	240,000	420,000
External Revenue	611,000	960,000	1,571,000
Total Transportation	1,691,000	2,050,000	3,741,000
Parks			
REET 1	350,000	1,200,000	1,550,000
Parks Levy*	550,000	550,000	1,100,000
Impact Fees	700,000	600,000	1,300,000
Total Parks	1,600,000	2,350,000	3,950,000

* Reflects a reduction of \$150,000 from original amount in each year to fund the Park Facilities Sinking Fund.

Other Potential Changes

Totem Lake Park

Additional changes which could be made based on Council direction regarding potential reprioritization of projects to address development in Totem Lake are being offered for Council consideration. The memo included as Attachment B provides details.

Peter Kirk Pool

As requested by the Council at the June meeting, the Parks and Community Services Department researched several options for converting Peter Kirk Pool to year-round use. The memo covering this topic, as presented to the Park Board, is included as Attachment C.

Summary/Next Steps

The final adoption of the 2017-2022 CIP is scheduled for December 13, 2016. Council feedback on proposed changes will be incorporated and brought back at that time.

**City of Kirkland
2017-2022 Preliminary Capital Improvement Program**

TRANSPORTATION PROJECTS

Funded Projects:

Project Number	Project Title	Prior Year(s)	2017	2018	2019	2020	2021	2022	2017-2022 Total	Funding Sources					
										Current Revenue	Street Levy	Impact Fees	Walkable Kirkland	Reserve	External/Pending Source
ST 0006	Annual Street Preservation Program		1,000,000	1,750,000	1,750,000	1,750,000	1,750,000	1,750,000	9,750,000	9,694,000	-	-	-	56,000	-
ST 0006 003	Street Levy Street Preservation		2,326,000	2,352,000	2,379,000	2,406,000	2,433,000	2,460,000	14,356,000	-	14,356,000	-	-	-	-
ST 0006 004	Street Levy Street Preservation, Central Way		214,000	-	-	-	-	-	214,000	30,000	-	-	-	-	184,000
ST 0006-005	Totem Lake Blvd Roadway Repair		720,000	-	-	-	-	-	720,000	720,000	-	-	-	-	-
ST 0059 101	124th Ave NE Roadway Improvements (North Section) Design		1,195,400	-	-	-	-	-	1,195,400	-	-	161,500	-	-	1,033,900
ST 0080	Annual Striping Program		400,000	500,000	500,000	500,000	500,000	500,000	2,900,000	2,900,000	-	-	-	-	-
ST 0083 102	100th Avenue NE Roadway Improvements		-	-	5,000,000	5,485,000	-	-	10,485,000	833,000	-	1,375,000	80,000	263,000	7,934,000
ST 0089	Juanita Drive Auto Improvements		-	-	-	-	3,300,000	3,300,000	6,600,000	1,076,000	-	150,000	-	79,000	5,295,000
ST 9999	Regional Inter-Agency Coordination	164,000	82,000	82,000	82,000	82,000	82,000	82,000	492,000	492,000	-	-	-	-	-
NM 0006 100	Street Levy-Safe School Walk Routes	150,000	-	-	-	-	150,000	150,000	300,000	-	300,000	-	-	-	-
NM 0006 200	Street Levy-Pedestrian Safety		150,000	150,000	150,000	150,000	150,000	150,000	900,000	-	900,000	-	-	-	-
NM 0006 201	Neighborhood Safety Program Improvements	400,000	200,000	200,000	200,000	200,000	-	-	800,000	-	-	-	800,000	-	-
NM 0007+	Cross Kirkland Corridor Connection-NE 52nd Street Sidewalk	682,000	454,900	-	-	-	-	-	454,900	-	-	-	-	40,000	414,900
NM 0012 001	NE 116th Street Crosswalk Upgrade		200,000	230,000	-	-	-	-	430,000	394,000	-	-	36,000	-	-
NM 0012 003	132nd Avenue NE Crosswalk Upgrade		-	250,000	-	-	-	-	250,000	250,000	-	-	-	-	-
NM 0012 004	Central Way Crosswalk Upgrade		-	-	50,000	50,000	-	-	100,000	100,000	-	-	-	-	-
NM 0057	Annual Sidewalk Maintenance Program		-	-	200,000	200,000	200,000	200,000	800,000	740,000	-	-	-	60,000	-
NM 0086 100	NE 124th St/124th Ave NE Ped Bridge Design & Construction	750,000	4,810,000	6,250,000	1,050,000	-	-	-	12,110,000	1,164,800	-	3,950,000	-	615,300	6,379,900
NM 0087+	Citywide School Walk Route Enhancements	1,000,000	864,200	869,000	450,000	400,000	300,000	300,000	3,183,200	363,000	300,000	300,000	198,200	1,022,000	1,000,000
NM 0087 001	North Kirkland/JFK School Walk Route Enhancements		-	-	500,000	500,000	-	-	1,000,000	14,600	300,000	-	100,000	-	585,400
NM 0089+	Lake Front Pedestrian and Bicycle Improvements	1,000,000	11,000	-	-	-	-	-	11,000	-	-	-	-	-	11,000
NM 0090+	Juanita Drive "Quick Wins"	686,600	726,000	-	-	-	-	-	726,000	-	-	-	-	-	726,000
NM 0090 001+	Juanita Drive Multi-Modal (On-Street) Improvements		-	-	-	525,000	-	-	525,000	100,000	-	225,000	-	200,000	-
NM 0092	Active Transportation Plan Update		75,000	-	-	-	-	-	75,000	75,000	-	-	-	-	-
NM 0095	124th Avenue NE Sidewalk Improvements	420,000	830,000	750,000	-	-	-	-	1,580,000	155,000	-	225,080	178,000	521,920	500,000
NM 0098	Kirkland Avenue Sidewalk Improvements		-	-	300,000	200,000	-	-	500,000	489,000	-	-	-	11,000	-
NM 0109	Citywide Trail Connections (Non-CKC)		-	-	-	275,000	-	-	275,000	-	-	275,000	-	-	-
NM 0109 001	Finn Hill Connections		-	250,000	-	-	-	-	250,000	-	-	125,000	125,000	-	-
NM 0109 002	Lake Front Promenade Design Study		-	-	-	75,000	-	-	75,000	75,000	-	-	-	-	-
NM 0110 001	Citywide Accessibility Improvements		-	100,000	100,000	100,000	100,000	100,000	500,000	300,000	-	-	100,000	100,000	-
NM 0113	Citywide Greenways Networks		-	-	-	250,000	-	-	250,000	750,000	-	375,000	-	360,000	-
NM 0113 001	Citywide Greenways Network Project-NE 75th Street	250,000	250,000	-	-	-	-	-	250,000	50,000	-	200,000	-	-	-
NM 0113 002	Citywide Greenways Network Project-128th Avenue NE		-	400,000	400,000	-	-	-	800,000	182,000	-	-	70,000	98,000	450,000
NM 0115	CKC Emergent Projects Opportunity Fund		100,000	100,000	-	-	-	-	200,000	200,000	-	-	-	-	-
NM 0118	NE 128th Street / 139th Avenue NE Non-Motorized Imps		800,000	-	-	-	-	-	800,000	263,200	-	-	32,800	-	504,000
NM 0119	Downtown Pedestrian Access Study		50,000	-	-	-	-	-	50,000	50,000	-	-	-	-	-
NM 7777	Annual Non-Motorized CAO/SWDM Surface Water Contribution		1,600,000	-	-	-	-	-	1,600,000	-	-	-	-	1,600,000	-
PT 0001 000	Citywide Transit Study		300,000	-	-	-	-	-	300,000	150,000	-	150,000	-	-	-
TR 0079 001#	NE 85th St/114th Ave Intersection Improvements Phase II		1,800,000	-	-	-	-	-	1,800,000	-	-	-	-	-	1,800,000
TR 0082+#	Central Way/Park Place Center Traffic Signal		200,000	-	-	-	-	-	200,000	-	-	-	-	-	200,000
TR 0091 101	NE 124th St/124th Ave NE Intersection Improvements Design		398,500	-	-	-	-	-	398,500	-	-	53,900	-	-	344,600
TR 0092	NE 116th St / 124th Ave NE Dual Left Turn Lanes	150,000	976,500	248,500	-	-	-	-	1,225,000	-	-	435,000	-	-	790,000
TR 0098	NE 132nd St / 116th Way NE (I-405) Intersect'n Imp		238,000	62,000	-	-	-	-	300,000	-	-	100,000	-	200,000	-
TR 0100 100+#	6th Street & Central Way Intersection Improvements Phase 2		1,866,800	-	-	-	-	-	1,866,800	-	-	-	-	-	1,866,800
TR 0103+#	Central Way/4th Street Intersection Improvements		31,000	-	-	-	-	-	31,000	-	-	-	-	-	31,000
TR 0104+#	6th Street/4th Ave Intersection Improvements		580,000	-	-	-	-	-	580,000	-	-	-	-	-	580,000
TR 0105+#	Central Way/5th Street Intersection Improvements		564,000	-	-	-	-	-	564,000	-	-	-	-	-	564,000
TR 0116	Annual Signal Maintenance Program		150,000	150,000	200,000	200,000	200,000	200,000	1,100,000	374,000	-	-	-	726,000	-
TR 0117	Citywide Traffic Management Safety Improvements		100,000	100,000	100,000	100,000	100,000	100,000	600,000	-	-	-	-	600,000	-
TR 0117 002	Vision Zero Safety Improvement		50,000	50,000	50,000	50,000	50,000	50,000	300,000	50,000	-	-	-	250,000	-
TR 0117 003	Neighborhood Traffic Control		-	50,000	-	50,000	-	50,000	150,000	34,000	-	-	-	116,000	-
TR 0118	General Parking Lot Improvements	720,000	100,000	-	-	-	-	-	100,000	-	-	-	-	100,000	-
TR 0119	Kirkland Citywide Intelligent Transportation System Study		75,000	-	-	-	-	-	75,000	35,000	-	-	-	40,000	-
TR 0120	Kirkland Intelligent Transportation System Phase 3		-	450,000	400,000	450,000	450,000	450,000	2,200,000	248,400	-	-	-	237,600	1,714,000
TR 0122	Totem Lake Intersection Improvements		3,031,100	-	-	-	-	-	3,031,100	-	-	2,199,600	-	-	831,500
TR 0127	NE 132nd Street Roundabout		320,000	-	-	-	-	-	320,000	54,000	-	-	-	-	266,000
TR 7777	Annual Traffic CAO/SWDM Surface Water Contribution		500,000	-	-	-	-	-	500,000	-	-	-	-	500,000	-
Total Funded Transportation Projects		6,372,600	28,339,400	15,343,500	13,861,000	13,998,000	10,015,000	10,092,000	91,648,900	21,671,000	16,156,000	10,300,080	1,720,000	7,795,820	34,006,000

Notes
Italics = Modification in timing and/or cost (see Project Modification/Deletion Schedule for more detail)
Bold = New projects
 += Moved from unfunded status to funded status
 -= Moved from funded status to unfunded status

TRANSPORTATION PROJECTS

Unfunded Projects in the Capital Facilities Plan Years 7-20

Project Number	Project Title	Total
ST 0059 102	124th Ave NE Roadway Improvements (North Section) ROW	2,050,800
ST 0059 103	124th Ave NE Roadway Improvements (North Section) Construction	6,753,800
ST 0063	120th Avenue NE Roadway Improvements	4,500,000
ST 0072	NE 120th Street Roadway Improvements (West Section)	15,780,600
ST 0077	NE 132nd St Rdwy Imprv.-Phase I (West Section)	1,348,000
ST 0078	NE 132nd St Rdwy Imprv-Phase II (Mid Section)	316,000
ST 0079	NE 132nd St Rdwy Imprv-Phase III (East Section)	1,119,000
ST 0081	Totem Lake Area Development Opportunity Program	500,000
NM 0012 999	Crosswalk Upgrade Program	4,100,000
NM 0086-003	CKC Roadway Crossings	3,370,100
NM 0090-100	Juanita Drive Bicycle and Pedestrian Improvements	10,650,000
NM 0113 999	Citywide Greenway Network	4,450,000
NM 0117 000	On-Street Bicycle Network Phase I	1,120,000
NM 8888 100	On-street Bicycle Network	3,280,000
NM 9999 100	Sidewalk Completion Program	6,096,800
PT 0002	Public Transit Speed and Reliability Improvements	500,000
PT 0003	Public Transit Passenger Environment Improvements	500,000
TR 0091 102	NE 124th St/124th Ave NE Intersection Improvements ROW	55,300
TR 0091 103	NE 124th St/124th Ave NE Intersection Improvements Construction	1,144,200
TR 0093	NE 132nd St/Juanita H.S. Access Rd Intersect'n Imp	916,000
TR 0094	NE 132nd St/108th Avenue NE Intersect'n Imp	618,000
TR 0095	NE 132nd St/Fire Stn Access Dr Intersect'n Imp	366,000
TR 0096	NE 132nd St/124th Ave NE Intersect'n Imp	5,713,000
TR 0097	NE 132nd St/132nd Ave NE Intersect'n Imp	889,000
TR 0125	Kirkland ITS Implementation Phase 4	2,620,000
Capacity Projects Subtotal		78,756,600
ST 0006 ^	Annual Street Preservation Program	22,750,000
ST 0006 003 ^	Street Levy Street Preservation	31,107,000
ST 0080 ^	Annual Striping Program	6,500,000
ST 9999 ^	Regional Inter-Agency Coordination	1,066,000
NM 0006 201 ^	Neighborhood Safety Program Improvements	3,000,000
NM 0057 ^	Annual Sidewalk Maintenance Program	2,600,000
TR 0116 ^	Annual Signal Maintenance Program	2,600,000
TR 0117 ^	Citywide Traffic Management Safety Improvements	1,400,000
TR 0117 002	Vision Zero Safety Improvement	650,000
TR 0117 003	Neighborhood Traffic Control	325,000
Non-Capacity Projects Subtotal		71,998,000
Total Transportation Master Plan Projects Yrs 7-20		150,754,600

Unfunded Projects in the Capital Facilities Plan Years 7-20 and Transportation Improvement Plan

NM 0024 201	Cross Kirkland Corridor Opportunity Fund	500,000
NM 0031	Crestwoods Park/CKC Corridor Ped/Bike Facility	2,505,000
NM 0080	Juanita-Kingsgate Pedestrian Bridge at I-405	4,500,000
NM 0081	CKC to Redmond Central Connector	1,500,000
NM 0106	Citywide CKC Connection	360,000
NM 0107	CKC to Downtown Surface Connection	2,000,000
Capital Facilities Projects Not in TMP Subtotal		11,365,000

Unfunded Transportation Improvement Plan/External Funding Candidates

Project Number	Project Title	Total
ST 0056	132nd Avenue NE Roadway Improvements	25,170,000
ST 0060	118th Avenue NE Roadway Extension	6,440,000
ST 0061	119th Avenue NE Roadway Extension	5,640,000
ST 0062	NE 130th Street Roadway Improvements	10,000,000
ST 0064	124th Avenue NE Roadway Extension	30,349,000
ST 0073	120th Avenue NE Roadway Extension	16,392,000
ST 0086	Finn Hill Emergency Vehicle Access Connection	900,000
NM 0030	NE 90th Street/I-405 Pedestrian/Bicycle Overpass	3,740,700
NM 0032	93rd Avenue Sidewalk	1,047,900
NM 0043	NE 126th St Nonmotorized Facilities	4,277,200
NM 0046	18th Avenue SW Sidewalk	2,255,000
NM 0050	NE 80th Street Sidewalk	859,700
NM 0054	13th Avenue Sidewalk	446,700
NM 0055	122nd Ave NE Sidewalk	866,700
NM 0058	111th Avenue Non-Motorized/Emergency Access Connection	2,000,000
NM 0062	19th Avenue Sidewalk	814,200
NM 0074	90th Ave NE Sidewalk	353,400
NM 0086	Cross Kirkland Corridor Non-motorized Improvements	65,742,000
TR 0067	Kirkland Way/CKC Bridge Abutment/Intersection Imprv	6,917,000
TR 0114	Slater Avenue NE Traffic Calming - Phase I	247,000
TR 0123	Slater Avenue NE (132nd Avenue NE)/NE 124th Street	2,124,000
TR 0124	116th Avenue NE/NE 124th Street Intersection Improvements	1,081,000
Subtotal Unfunded Transportation Improvement Plan /External Funding Candid		187,663,500
Grand Total Unfunded Transportation Projects		349,783,100

Notes

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- # = Projects to be funded with development-related revenues
- ^ = Future, unfunded portion of projects funded in years 1-6
- ™ = Annual Programs with Candidate projects

Potential Non-Motorized Projects Under Placeholders; Not Included in Totals

Project Number	Project Title	Total
™NM 8888 100 On-Street Bicycle Network Candidate Projects:		
NM 0001	116th Ave NE (So. Sect.) Non-Motoriz'd Facil-Phase II	3,378,000
NM 0036	NE 100th Street Bike lane	1,644,300
NM 9999 100 Sidewalk Completion Program Candidate Projects:		
NM 0026	NE 90th Street Sidewalk (Phase II)	706,200
NM 0037	130th Avenue NE Sidewalk	833,600
NM 0045	NE 95th Street Sidewalk (Highlands)	571,500
NM 0047	116th Avenue NE Sidewalk (South Rose Hill)	840,000
NM 0048	NE 60th Street Sidewalk	500,000
NM 0049	112th Ave NE Sidewalk	527,600
NM 0061	NE 104th Street Sidewalk	1,085,000
NM 0063	Kirkland Way Sidewalk	414,500
NM 0071	NE 132nd Street Sidewalk Improvement	363,000
NM 0072	NE 132nd Street Sidewalk at Finn Hill Middle School	840,000
NM 0075	84th Ave NE Sidewalk	4,052,800
NM 0076	NE 140th St Sidewalk - Muir Elem Walk Rt Enhan. Phase 1	1,131,000
NM 0077	NE 140th St Sidewalk - Keller Elem Walk Rt Enhan. - N	1,185,000
NM 0078	NE 140th St Sidewalk - Keller Elem Walk Rt Enhan. - S	747,000
NM 0079	NE 140th St Sidewalk - Muir Elem Walk Rt Enhan. Phase 2	648,000
NM 0088	NE 124th Street Sidewalk	376,000
NM 0097	132nd NE Sidewalk	732,000
NM 0101	7th Avenue Sidewalk	208,000
NM 0102	NE 120th Street Sidewalk	548,000
NM 0103	120th Avenue NE Sidewalk	556,000
NM 0104	NE 122nd Place/NE 123rd Street Sidewalk	1,294,000
NM 0105	120th Avenue NE Sidewalk	812,000

**City of Kirkland
2017-2022 Preliminary Capital Improvement Program**

SURFACE WATER MANAGEMENT UTILITY PROJECTS

Funded Projects:

Project Number	Project Title	Prior Year(s)	2017	2018	2019	2020	2021	2022	2017-2022 Total	Funding Source				
										Current Revenue	Reserve	Debt	External Source	
<i>SD 0046-001+</i>	<i>Regional Detention in Forbes Creek Basin - Phase I</i>							609,000	1,314,800	1,923,800	1,923,800			
<i>SD 0047</i>	<i>Annual Replacement of Aging/Failing Infrastructure</i>		200,000	200,000	200,000	200,000	200,000	200,000	2,000,000	1,200,000	1,200,000			
<i>SD 0049</i>	<i>Forbes Creek/108th Ave NE Fish Passage Imp</i>				230,400		196,000			426,400	426,400			
<i>SD 0053+</i>	<i>Forbes Creek/Coors Pond Channel Grade Controls</i>						324,900	344,600	669,500	669,500	669,500			
<i>SD 0054+</i>	<i>Forbes Creek/Cross Kirkland Corridor Fish Passage Improvements</i>						324,900	344,600	669,500	669,500	669,500			
<i>SD 0063</i>	<i>Everest Creek - Slater Ave at Alexander St</i>					661,900	241,800			903,700	903,700			
<i>SD 0076</i>	<i>NE 141st Street/111th Avenue NE Culvert Repair</i>	257,600	683,900							683,900	683,900			
<i>SD 0081</i>	<i>Brookhaven Pond Modifications</i>		50,000		50,000		50,000			150,000	50,000	100,000		
<i>SD 0084</i>	<i>Market Street Storm Main Rehabilitation</i>			268,400	616,600					885,000	885,000			
<i>SD 0087</i>	<i>Silver Spurs Flood Reduction</i>			77,000						77,000	77,000			
<i>SD 0088</i>	<i>Comfort Inn Pond Modifications</i>	407,000	309,100							309,100	309,100			
<i>SD 0089</i>	<i>NE 142nd Street Surface Water Drainage Improvements</i>			194,000						194,000	194,000			
<i>SD 0090</i>	<i>Goat Hill Drainage Ditch and Channel Stabilization</i>					243,400	89,600			333,000	333,000			
<i>SD 0091</i>	<i>Holmes Point Drive Pipe Replacement</i>	300,400	205,600							205,600	205,600			
<i>SD 0092</i>	<i>Juanita Creek Culvert at NE 137th Street</i>		149,800	535,300						685,100	685,100			
<i>SD 0093</i>	<i>Pleasant Bay Apartments Line Replacement</i>		252,600	69,400						322,000	322,000			
<i>SD 0094</i>	<i>NE 114th Place Stormline Replacement</i>					270,400				270,400	270,400			
<i>SD 0097</i>	<i>Champagne Creek Stabilization</i>			402,900	408,100					811,000	811,000			
<i>SD 0098</i>	<i>Champagne Creek Stormwater Retrofit</i>			125,000						125,000	125,000			
<i>SD 0099</i>	<i>Goat Hill Drainage Conveyance Capacity</i>				460,900	194,100				655,000	655,000			
<i>SD 0100</i>	<i>Brookhaven Pond Modifications</i>					354,200	298,800			653,000	653,000			
<i>SD 0105</i>	<i>Property Acquisition Opportunity Fund</i>		50,000	50,000	50,000	50,000	50,000	50,000	300,000	-	-	300,000		
<i>SD 0106 001</i>	<i>CKC Surface Water Drainage at Crestwoods Park Design/Construction</i>	300,000	700,000	-	-	-	-	-	700,000	-	-	350,000		350,000
<i>SD 7777</i>	<i>Surface Water CAO/SWDM Support</i>		1,400,000						1,400,000	-	-	1,400,000		-
Total Funded Surface Water Management Utility Projects		1,265,000	4,001,000	1,922,000	2,016,000	2,170,000	2,189,000	2,254,000	14,552,000	12,052,000	2,150,000	0	350,000	

Notes
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SURFACE WATER MANAGEMENT UTILITY PROJECTS

Unfunded Projects:

Project Number	Project Title	Total
SD 0045	Carillon Woods Erosion Control Measures	549,600
<i>SD 0046 999</i>	<i>Regional Detention in Forbes and Juanita Creek Basins</i>	<i>8,076,200</i>
SD 0051	Forbes Creek/King County Metro Access Road Culvert Enhancement	1,290,900
SD 0061	Everest Park Stream Channel/Riparian Enhancements	1,095,500
SD 0085 001	Cross Kirkland Water Quality	920,000
<i>SD 0095"</i>	<i>NE 141st Street Stormwater Pipe Installation</i>	<i>170,000</i>
SD 0101	Holmes Point Pipe Replacement at Champagne Creek Basin	240,000
SD 0102	Juanita Drive Culvert Replacement	665,000
SD 0103	Lakeview Drive Conveyance Modification	2,562,000
SD 0107	132nd Square Park Stormwater Retrofit Project	4,510,000
Total Unfunded Surface Water Management Utility Projects		20,079,200

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**City of Kirkland
2017-2022 Preliminary Capital Improvement Program**

WATER/SEWER UTILITY PROJECTS

Funded Projects:

Project Number	Project Title	Prior Year(s)	2017	2018	2019	2020	2021	2022	2017-2022 Total	Funding Source			
										Current Revenue	Reserve	Debt	External Source
WA 0102	104th Ave NE Watermain Replacement			504,800	181,200				686,000	686,000			
WA 0134	5th Ave S / 8th St S Watermain Replacement				183,800	389,200			573,000	573,000			
WA 0139+	6th Street South Watermain Replacement		119,000	719,000					838,000	838,000			
WA 0153	3rd Street Watermain Improvement	440,000	317,000						317,000	317,000			
WA 0154	4th Street Watermain Replacement Phase 2	290,000	174,000						174,000	174,000			
WA 0155	120th Avenue NE Watermain Improvement		437,000	273,000					710,000	710,000			
WA 0156	122nd Avenue NE Watermain Improvement		505,600	190,400					696,000	696,000			
WA 0157	8th Avenue W Watermain Improvement			421,800	288,200				710,000	710,000			
WA 0158	NE 112th Street Watermain Improvement			365,000					365,000	365,000			
WA 0159	NE 113th Place Watermain Improvement			373,000					373,000	373,000			
WA 0160	126th Avenue NE Watermain Improvement			272,700	717,300				990,000	990,000			
WA 7777	Annual Water CAO/SWDM Support		500,000						500,000		500,000		
WA 8888	Annual Watermain Replacement Program						400,200	933,000	1,333,200	1,333,200			
WA 9999	Annual Water Pump Station/System Upgrade Pgm						400,200	934,000	1,334,200	1,334,200			
SS 0051	6th Street S Sewermain Replacement		146,100	818,900					965,000	965,000			
SS 0052	108th Avenue NE Sewermain Replacement			711,400	3,236,100	1,558,500			5,506,000	5,506,000			
SS 0062	NE 108th Street Sewermain Replacement					3,390,300	3,179,200		6,569,500	5,169,500	1,400,000		
SS 0069	1st Street Sewermain Replacement	354,200	3,465,800						3,465,800	2,065,800	1,400,000		
SS 0070	5th Street Sewermain Replacement	419,500	864,500						864,500	864,500			
SS 0072	Kirkland Avenue Sewermain Replacement			285,000	2,013,400				2,298,400	898,400	1,400,000		
SS 0077 001+	West of Market Sewermain Replacement - Phase I					225,000	2,500,000	2,500,000	5,225,000	5,225,000			
SS 7777	Annual Sewer CAO/SWDM Support		700,000						700,000		700,000		
SS 8888	Annual Sanitary Pipeline Replacement Program						400,200	933,000	1,333,200	1,333,200			
SS 9999	Annual Sanitary Pump Station/System Upgrade Pgm						400,200	933,000	1,333,200	1,333,200			
Total Funded Water/Sewer Utility Projects		1,503,700	7,229,000	4,935,000	6,620,000	5,563,000	7,280,000	6,233,000	37,860,000	32,460,000	5,400,000	0	0

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WATER/SEWER UTILITY PROJECTS

Unfunded Projects:

Project Number	Project Title	Total
WA 0052	108th Avenue NE Watermain Replacement	1,584,000
WA 0057	116th Avenue NE Watermain Replacement	2,731,000
WA 0067	North Reservoir Pump Replacement	611,000
WA 0096	NE 83rd Street Watermain Replacement	450,000
WA 0098	126th Ave NE/NE 83rd & 84th St/128th Ave NE Watermain Replacement	1,197,000
WA 0103	NE 113th Place/106th Ave NE Watermain Replacement	841,000
WA 0104	111th Ave NE/NE 62nd St-NE 64th St Watermain Replacement	1,493,000
WA 0108	109th Ave NE/NE 58th St Watermain Replacement	504,000
WA 0109	112th Ave NE Watermain Replacement	1,179,000
WA 0111	NE 45th St And 110th/111th Ave NE Watermain Replacement	1,303,000
WA 0113	116th Ave NE/NE 70th-NE 80th St Watermain Replacement	2,222,100
WA 0118	112th -114th Avenue NE/NE 67th-68th Street Watermain Replacement	3,360,100
WA 0119	109th Ave NE/111th Way NE Watermain Replacement	2,304,000
WA 0120	111th Avenue Watermain Replacement	182,000
WA 0122	116th Avenue NE/NE 100th Street Watermain Replacement	1,506,000
WA 0123	NE 91st Street Watermain Replacement	453,000
WA 0124	NE 97th Street Watermain Replacement	685,000
WA 0126	North Reservoir Outlet Meter Addition	72,300
WA 0127	650 Booster Pump Station	1,603,000
WA 0128	106th Ave NE-110th Ave NE/NE 116th St-NE 120th St Watermain Replacement	2,305,000
WA 0129	South Reservoir Recoating	981,000
WA 0130	11th Place Watermain Replacement	339,000
WA 0131	Supply Station #1 Improvements	61,500
WA 0132	7th Avenue/Central Avenue Watermain Replacement	907,000
WA 0133	Kirkland Avenue Watermain Replacement	446,000
WA 0135	NE 75th Street Watermain Replacement	711,000
WA 0136	NE 74th Street Watermain Replacement	193,000
WA 0137	NE 73rd Street Watermain Replacement	660,000
WA 0138	NE 72nd St/130th Ave NE Watermain Replacement	1,476,000
WA 0145	6th Street South Watermain Replacement	585,100
WA 0146	6th Street/Kirkland Way Watermain Replacement	693,000
WA 0147	106th Avenue NE Watermain Replacement	661,500
WA 0149	Lake Washington Blvd Watermain Replacement	655,000
SS 0068	124th Avenue NE Sewermain Replacement	1,315,000
SS 0077 999	West Of Market Sewermain Replacement	16,456,000
SS 0080	20th Avenue Sewermain Replacement"	812,000
SS 0083	111th Avenue NE Sewer Main Rehabilitation	725,000
SS 0084	Reclaimed Water (Purple Pipe) Opportunity Fund	5,000,000
Subtotal Unfunded Water/Sewer Utility Projects		59,262,600
Funding Available from Annual Programs for Candidate Projects		5,333,800
Net Unfunded Water/Sewer Utility Projects		53,928,800

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**City of Kirkland
2017-2022 Preliminary Capital Improvement Program**

PARK PROJECTS

Funded Projects:

Project Number	Project Title	Prior Year(s)	2017	2018	2019	2020	2021	2022	2017-2022 Total	Funding Source				
										Current Revenue	Park Levy	Impact Fees	Reserves	External Source
PK 0049	Open Space, Park Land & Trail Acq Grant Match Program		100,000	0	0	0	0	0	100,000	0	0	0	100,000	0
<i>PK 0066</i>	<i>Park Play Area Enhancements</i>		<i>50,000</i>	<i>50,000</i>	<i>75,000</i>	<i>75,000</i>	<i>75,000</i>	<i>75,000</i>	<i>400,000</i>	<i>320,000</i>	<i>0</i>	<i>80,000</i>	<i>0</i>	<i>0</i>
PK 0087 101	Waverly Beach Park Renovation Phase 2		0	0	250,000	1,000,000	0	0	1,250,000	0	873,000	377,000	0	0
PK 0119 002	Juanita Beach Park Development Phase 2		100,000	1,208,000	0	0	0	0	1,308,000	678,000	0	130,000	0	500,000
<i>PK 0121</i>	<i>Green Kirkland Forest Restoration Program</i>		<i>75,000</i>	<i>75,000</i>	<i>75,000</i>	<i>75,000</i>	<i>100,000</i>	<i>100,000</i>	<i>500,000</i>	<i>500,000</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>
<i>PK 0133 100</i>	<i>Dock & Shoreline Renovations</i>		<i>0</i>	<i>0</i>	<i>250,000</i>	<i>100,000</i>	<i>250,000</i>	<i>250,000</i>	<i>850,000</i>	<i>0</i>	<i>850,000</i>	<i>0</i>	<i>0</i>	<i>0</i>
PK 0133 200	City-School Playfield Partnership		500,000	500,000	0	0	0	0	1,000,000	0	1,000,000	0	0	0
<i>PK 0133 300</i>	<i>Neighborhood Park Land Acquisition</i>		<i>750,000</i>	<i>750,000</i>	<i>600,000</i>	<i>734,000</i>	<i>1,035,000</i>	<i>1,135,000</i>	<i>5,004,000</i>	<i>0</i>	<i>2,100,000</i>	<i>2,904,000</i>	<i>0</i>	<i>0</i>
<i>PK 0138</i>	<i>Everest Park Restroom/Storage Building Replacement</i>	<i>75,000</i>	<i>0</i>	<i>0</i>	<i>803,000</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>803,000</i>	<i>803,000</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>
PK 0139 200	Totem Lake Park Master Plan & Development (Phase I)	780,000	1,084,000	0	0	0	0	0	1,084,000	0	0	584,000	0	500,000
<i>PK 0139 300</i>	<i>Totem Lake Park Development Phase 2</i>		<i>0</i>	<i>581,000</i>	<i>1,135,000</i>	<i>724,000</i>	<i>0</i>	<i>0</i>	<i>2,440,000</i>	<i>0</i>	<i>0</i>	<i>1,940,000</i>	<i>0</i>	<i>500,000</i>
PK 0147	Parks Maintenance Center		0	250,000	500,000	750,000	0	0	1,500,000	1,425,000	0	75,000	0	0
PK 0151	Park Facilities Life Cycle Projects		168,000	146,000	162,000	151,000	162,000	169,000	958,000	958,000	0	0	0	0
Total Funded Park Projects		855,000	2,827,000	3,560,000	3,850,000	3,609,000	1,622,000	1,729,000	17,197,000	4,684,000	4,823,000	6,090,000	100,000	1,500,000

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Bold = New projects

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" = Moved from funded status to unfunded status

Unfunded Projects:

Project Number	Project Title	Total
PK 0056 100	Forbes Lake Park Trail Improvements Phase 2	4,000,000
PK 0095 100	Heritage Park Development - Phase III & IV	2,500,000
PK 0097	Reservoir Park Renovation	500,000
PK 0108	McAuliffe Park Development	7,000,000
PK 0114	Mark Twain Park Renovation	750,000
PK 0114 101	Mark Twain Park Renovation (Design)	75,000
PK 0116	Lee Johnson Field Artificial Turf Installation	1,750,000
PK 0119 200	Juanita Beach Park Development (Phase 3)	10,000,000
PK 0122 100	Community Recreation Facility Construction	67,000,000
PK 0124	Snyder's Corner	1,000,000
PK 0126	Watershed Park Master Planning & Park Development	1,100,000
PK 0127	Kiwanis Park Master Planning & Park Development	1,100,000
PK 0128	Yarrow Bay Wetlands Master Planning & Park Development	1,600,000
PK 0129	Heronfield Wetlands Master Planning & Development	1,600,000
PK 0131	Park and Open Space Acquisition Program	3,000,000
PK 0133 100	Dock & Shoreline Renovations	1,500,000
PK 0135 100	Juanita Heights Park Expansion	1,000,000
PK 0136	Kingsgate Park Master Planning and Park Development	1,150,000
PK 0139 101	Totem Lake Park Acquisition	3,000,000
PK 0139 400	Totem Lake Park Development - Phase 3	13,000,000
PK 0141 000	South Norway Hill Park Improvements	750,000
PK 0142 000	Doris Cooper Houghton Beach Park Restroom Replacement	850,000
PK 0143 000	Marsh Park Restroom Replacement	700,000
PK 0144 000	Cedar View Park Improvements	150,000
PK 0145 000	Environmental Education Center	2,000,000
PK 0148	Forbes House Renovation	414,000
PK 0149	Taylor Playfields- Former Houghton Landfill Site Master Plan	300,000
PK 0150	North Kirkland Community Center Renovation	786,000
Total Unfunded Parks Projects		128,575,000

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**City of Kirkland
2017-2022 Preliminary Capital Improvement Program**

PUBLIC SAFETY PROJECTS

Funded Projects:

Project Number	Project Title	Prior Year(s)	2017	2018	2019	2020	2021	2022	2017-2022 Total	Funding Source			
										Reserve	Debt	External Source	
FIRE													
PS 0062	Defibrillator Unit Replacement		-	-	-	176,900	-	-	176,900	176,900			
PS 0066	Thermal Imaging Cameras	11,000	-	-	-	-	112,200	-	112,200	112,200			
PS 0071	Self Contained Breathing Apparatus (SCBA)		-	9,700	-	-	-	-	9,700	9,700			
PS 0076	Personal Protective Equipment		-	-	573,100	-	-	2,900	576,000	576,000			
PS 0080	Emergency Generators	60,000	-	60,000	-	60,000	-	60,000	180,000	180,000			
PS 2000	Fire Equipment Replacement		20,300	46,600	20,900	25,000	15,800	34,200	162,800	162,800			
POLICE													
PS 1000	Police Equipment Replacement		134,900	116,900	98,800	166,800	117,900	112,300	747,600	747,600			
FACILITIES													
PS 3001	Fire Station 25 Renovation		3,787,000	-	-				3,787,000	3,787,000			
PS 3002 002+	Fire Station 24 Replacement		-	10,133,300	-				10,133,300	9,663,000		470,300	
PS 3003	Fire Station 27 Property Acquisition		2,500,000	-	-				2,500,000	2,500,000			
Total Funded Public Safety Projects			71,000	6,442,200	10,366,500	692,800	428,700	245,900	209,400	18,385,500	17,915,200	0	470,300

Notes

Italics = Modification in timing and/or cost (see Project Modification/Deletion Schedule for more detail)

Bold = New projects

+ = Moved from unfunded status to funded status

" = Moved from funded status to unfunded status

Public Safety Unfunded Projects:

Project Number	Project Title	Total
FIRE		
PS 0068	Local Emergency/Public Communication AM Radio	119,100
POLICE		
PS 1200	Police Strategic Plan Implementation	250,000
FACILITIES		
PS 3004	Fire Station 21 Expansion & Remodel	3,885,400
PS 3005	Fire Station 22 Expansion & Remodel	5,812,600
PS 3006	Fire Station 26 Expansion & Remodel	6,763,900
PS 3007	Fire Station 27 Replacement	16,098,500
Total Unfunded Public Safety Projects		32,929,500

Notes

Italics = Modification in timing and/or cost (see Project Modification/Deletion Schedule for more detail)

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**City of Kirkland
2017-2022 Preliminary Capital Improvement Program**

GENERAL GOVERNMENT PROJECTS - Technology

Funded Projects:

Project Number	Project Title	Prior Year(s)	2017	2018	2019	2020	2021	2022	2017-2022 Total	Funding Source		
										Reserves/ Prior Yr	Debt	External Source
IT 0100	Network Server Replacements		203,700	33,000	71,400	46,400	244,700	8,000	607,200	607,200		
IT 0110	Network Infrastructure		51,100	119,000	114,000	1,006,600	49,100	45,600	1,385,400	1,385,400		
IT 0120	Network Storage, Backup & Archiving		80,000	1,099,400	-	18,400	20,100	80,000	1,297,900	1,297,900		
IT 0130	Network Phone Systems		-	-	-	-	250,000	-	250,000	250,000		
IT 0140	Network Security		-	-	75,000	30,000	30,000	75,000	210,000	210,000		
IT 0200	Geographic Information Systems		275,000	285,000	285,000	285,000	285,000	285,000	1,700,000	1,700,000		
IT 0302+	Court Customer Service Systems Improvements		154,400	-	-	-	-	-	154,400	154,400		
IT 0303+	Sharepoint and Trim Upgrade		187,100	-	-	-	-	-	187,100	187,100		
IT 0402	Financial System Replacement	50,000	2,500,000	-	-	-	-	-	2,500,000	2,500,000		
IT 0500	Copier Replacements		39,000	30,500	34,000	34,600	36,000	55,900	230,000	230,000		
IT 0702	EAM Maintenance Management System Replacement	1,239,600	205,600	-	-	-	-	-	205,600	205,600		
Total Funded General Gov. Projects - Technology		1,289,600	3,695,900	1,566,900	579,400	1,421,000	914,900	549,500	8,727,600	8,727,600	0	0

Notes

Italics = Modification in timing and/or cost (see Project Modification/Deletion Schedule for more detail)

Bold = New projects

+ = Moved from unfunded status to funded status

" = Moved from funded status to unfunded status

Technology Unfunded Projects:

Project Number	Project Title	Total
IT 0201	GIS Community Information Portal	100,000
IT 0301	Open Data Solution Implementation	229,800
IT 0602	Business Intelligence/Standard Reporting Tool	132,200
IT 0701	Fleet Management Systems Replacement	80,000
IT 0902	Customer Relationship Management System	17,000
Total Unfunded General Government Projects - Technology		559,000

Notes

Italics = Modification in timing and/or cost (see Project Modification/Deletion Schedule for more detail)

Bold= New projects

+ = Moved from unfunded to funded

" = Moved from funded to unfunded

**City of Kirkland
2017-2022 Preliminary Capital Improvement Program**

GENERAL GOVERNMENT PROJECTS - Facilities

Funded Projects:

Project Number	Project Title	Prior Year(s)	2017	2018	2019	2020	2021	2022	2017-2022 Total	Funding Source				
										Current Revenue	Reserve	Debt	External Source	
GG 0008	Electrical, Energy Management & Lighting Systems		-	38,800	28,800	-	34,700	131,500	233,800		233,800			
GG 0009	Mechanical/HVAC Systems Replacements		176,400	223,300	314,800	78,200	20,000	10,500	823,200		823,200			
GG 0010	Painting, Ceilings, Partition & Window Replacements		20,900	4,100	144,700	244,700	28,800	8,400	451,600		451,600			
GG 0011	Roofing, Gutter, Siding and Deck Replacements		126,100	231,700	-	74,000	7,100	-	438,900		438,900			
GG 0012	Flooring Replacements		101,700	55,600	40,200	209,400	188,800	39,800	635,500		635,500			
Total Funded General Government Projects - Facilities			-	425,100	553,500	528,500	606,300	279,400	190,200	2,583,000	-	2,583,000	-	-

Notes

Italics = Modification in timing and/or cost (see Project Modification/Deletion Schedule for more detail)

Bold = New projects

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" = Moved from funded status to unfunded status



CITY OF KIRKLAND
Department of Parks & Community Services
505 Market Street, Suite A, Kirkland, WA 98033 425.587.3300
www.kirklandwa.gov

MEMORANDUM

To: Kurt Triplett

From: Lynn Zwaagstra, Director, Department of Parks and Community Services
Michael Cogle, Deputy Director

Date: October 24, 2016

Subject: Proposed Funding Option to Expedite Totem Lake Park Development

This report provides an option to fund further improvements to Totem Lake Park, specifically development of the City-owned upland park parcel currently known as the Yuppie Pawn site. The funding proposal includes recommendations for reprioritizing the Capital Improvement Program (CIP), as well as reallocation of park impact fees budgeted in the Transportation CIP and assignment of non-programmed REET reserves.

Totem Lake Business District Revitalization a High City Priority

In 2010 the City Council adopted Resolution R-4856, approving an Action Plan for revitalizing the Totem Lake Business District and directing City departments to reprioritize work tasks accordingly. In response, the Park Board in 2011 forwarded recommendations to the Council regarding potential park-related projects. One of these recommendations was for the City to develop a master plan for the Totem Lake Park property.

The Urban Land Institute, a non-profit organization comprised of land use and real estate experts, recommended to the City in 2011 that Totem Lake Park be developed as a catalyzing strategy to help create a "sense of place" in Totem Lake. Their report said "the Lake itself can become the heart of a redeveloping neighborhood and a place with which Totem Lake residents, existing and new, can truly identify."

In 2013 the City Council adopted the City's Work Program, which included emphasis on Totem Lake revitalization:

"Revitalize the Totem Lake Business District through continued implementation of the Totem Lake Action Plan to further the goals of Financial Stability and Economic Development."

The Totem Lake Neighborhood and Urban Center is a vital employment, retail and service area for the City of Kirkland and the surrounding region. It is the City of Kirkland's largest employment center and the highest revenue generator of all Kirkland business districts.

The Totem Lake Neighborhood contains the City's only Urban Center, a designation made in 2003 by the State Growth Management Planning Council. Urban centers are the focus of regional growth, incorporating high density housing (15 households per gross acre) and employment (15,000 jobs within a half mile of a transit center or 50 employees per gross acre). By 2030, Totem Lake is expected to grow from its present population of 5,544 to 9,800, and double its housing units to 6,000. Employment is expected to increase from 11,511 to 29,000.

Development activity in Totem Lake is occurring at a rapid pace. **Attachment A** provides an update on the extraordinary development currently proposed and under permitting review.

Totem Lake Park Master Plan

In 2013 the City Council directed the Parks and Community Services Department to create a Totem Lake Park Master Plan. Working in conjunction with the property owner, King Conservation District, the goal was to develop an overall plan for future park improvements to the Lake property. The City Council formally adopted the Totem Lake Park Master Plan in December 2013 (**Attachment B**).

Totem Lake Park is a 17-acre site located in the heart of the Totem Lake Urban Center. The park is comprised primarily of wetlands, and the lake itself encompasses about 4 acres of the property.

The following elements formed the basis for developing the Master Plan for Totem Lake Park:

Revealing the lake and creating a sense of place.

The lake and wetland itself is a gem, but it seems very few people in the surrounding community know it's even there. There is limited access to the site with development and natural barriers walling off the site from all sides. The Master Plan provides an opportunity to develop a strong sense of place that can become a catalyst for a new vision and new development that can revitalize the greater Totem Lake community.

It's not just a place; it's a starting point and a destination.

With its location along the Cross Kirkland Corridor (CKC), both facilities can leverage each other, with the whole of their benefits being greater than the sum of the parts. When viewed in tandem with the future regional connections provided by the trail, the park can become a trailhead or destination of those using the trail.

Enhance the human experience while enhancing ecological performance.

Totem Lake Park is an ecological gem, yet with some obvious impacts from the urban areas that surround it. One of the critical opportunities of the Master Plan is to enhance the human experience of the park, opening it up to become an icon of the community, even as we work to enhance the ecological performance of the lake and wetland.

An economic catalyst.

Although the park itself may not drive economic development strategies, it is a catalyst that can help bring people to the area. Thoughtful development of surrounding properties can enable Totem Lake Park to become a destination that then supports other services. In addition, being adjacent to and developed as a vital portion of the Cross Kirkland Corridor, the site brings a unique opportunity to provide services for trail users.

Implementing the Plan

After the Master Plan was adopted by the City Council in 2013, staff identified the following initial action steps:

- 1) Ensure that future City planning efforts appropriately address TLP Master Plan recommendations, including:
 - a. Comprehensive Plan and Totem Lake Neighborhood Plan
 - b. Cross Kirkland Corridor Master Plan
 - c. Transportation Master Plan
 - d. Park, Recreation, and Open Space (PROS) Plan

Status: TLP Master Plan has been integrated into these various planning documents.
- 2) Pursue acquisition of adjacent upland parcel(s) as recommended by the Plan.

Status: City has acquired the site currently known as the Yuppie Pawn property.
- 3) Evaluate the State of Washington's Recreation & Conservation Office (RCO) grant program for matching funding for a first phase of project construction.

Status: An application for funding was submitted in 2016 but the proposed project did not rank high enough to be funded.
- 4) Transfer ownership of Totem Lake from the King Conservation District to the City of Kirkland.

Status: Discussions with the District are on-going.
- 5) Integrate TLP Master Plan implementation into the Parks CIP and in conjunction with the bi-annual budget process.

Status: Initial phases have been incorporated into CIP.

As with other large-scale park plans, implementation typically occurs in several phases over a long period of time. Phasing and prioritizing decisions are considered by the City Council as part of the budget and CIP processes.

In no particular order, the following segments (or phases) were identified (**Attachment C**):

- | | |
|--|--------------------------|
| A. Upland Park (i.e. Yuppie Pawn site) | E. King County Parcel |
| B. North Edge | F. CKC-Totem Lake Bridge |
| C. East Boardwalk | G. West Edge |
| D. CKC Right-of-Way | |

Based on funding available in the CIP for Parks projects, and a desire to connect the park's existing trail system to the Cross Kirkland Corridor, the 'East Boardwalk' segment was identified for Phase 1. Design has begun for this segment of the project. A second phase of Master Plan implementation is identified for funding in the Capital Improvement Program. The second phase was originally identified as the 'CKC Right-of-Way' segment and would commence with design in 2018.

Expediting Plan Implementation – Yuppie Pawn Site

Given the accelerated pace of private development in the Totem Lake area, particularly multi-family residential development, staff suggests that consideration be given to expediting implementation of the park Master Plan by developing the 'Upland Parcel', i.e. Yuppie Pawn site.

Advancing park development of the Yuppie Pawn site would provide new residents, shoppers, employees, and CKC Trail users with important and much-needed park and recreation amenities, given the lack of such amenities in the neighborhood. **Attachment D** highlights anticipated improvements to the Yuppie Pawn site as recommended in the park Master Plan. These improvements include a public restroom, children’s playground, lawn areas, seating and picnicking amenities, and parking.

Costs

Staff recommends combining development of the Yuppie Pawn site with the currently-underway 'East Boardwalk' segment into a revised and expanded Phase 1 of Master Plan implementation, with the intent to construct both segments beginning in 2019. The following is a high-level budget summary for this expanded Phase 1 proposal combining the East Boardwalk and Yuppie Pawn site segments:

Table 1: Cost Estimate: Expanded Phase 1 Totem Lake Park Master Plan Development

<u>Item</u>	<u>Yuppie Pawn Site</u>	<u>East Boardwalk</u>	<u>Total</u>
2013 Master Plan Construction Estimate plus 4% per year inflationary adjustment to 2019	\$ 2,815,430	\$ 1,176,000	\$ 3,991,430
Sales Tax	\$ 275,912	\$ 115,248	\$ 391,160
Construction Contingency	\$ 281,543	\$ 117,600	\$ 399,143
Design/Engineering/Reports	\$ 563,086	\$ 176,400	\$ 739,486
Project Management	\$ 140,772	\$ 58,800	\$ 199,572
Construction Inspection	\$ 225,234	\$ 58,800	\$ 284,034
Permits; Owner Items; Misc.	\$ 60,000	\$ 24,000	\$ 84,000
1% for Public Art	\$ 53,000	\$ 17,400	\$ 70,400
Sub Total:	\$ 4,414,977	\$ 1,744,248	\$ 6,159,225
Allowance for CAO & Storm Water Manual***	\$ 900,000	(None anticipated)	\$ 900,000
Total Project Cost Estimate	\$ 5,314,977	\$ 1,744,248	\$ 7,059,225

*** Estimated impact to project budget due to pending updates of the City's Critical Areas Ordinance and Storm Water Design Manual.

It is important to note that these cost estimates are based on construction cost estimates developed during the master planning process in 2013, and, while escalations and contingencies are built in, the project scope and budget may need to be re-evaluated once design and engineering proceeds.

Recommended Funding Strategy

As shown in Table 1, a total of \$7,059,225 is required in order to fund this proposal. A number of adjustments to project funding in the Parks CIP are recommended, and additional new funding will need to be allocated as well. This additional new funding is proposed to come from reallocation of

park impact fees currently budgeted as part of the CKC Totem Lake Bridge Transportation project (\$1.86 million that would be backfilled with transportation impact fees), as well as funding from the City's Real Estate Excise Tax (REET) reserves.

The following table identifies the recommended funding strategy:

Table 2: Funding Plan for Expanded Phase 1 Totem Lake Park Master Plan Development

	<u>Amount</u>
<u>PREVIOUSLY APPROVED FUNDING FOR TOTEM LAKE PARK</u>	
PK 0139200 Totem Lake Phase 1 (East Boardwalk)	\$ 660,000
PK 0139100 Totem Lake Park Master Plan (Project Balance)	\$ 8,000
<u>FUNDING CURRENTLY PROPOSED IN '17-'22 CIP FOR TOTEM LAKE PARK</u>	
PK 0139200 Totem Lake Phase 1 (East Boardwalk)	\$ 584,000
PK 0139300 Totem Lake Phase 2 (CKC Right-of-Way)	\$ 1,940,000
<u>REPURPOSE PREVIOUSLY APPROVED FUNDING: OTHER CIP PROJECTS</u>	
PK 0134000 132nd Square Park Playfields	\$ 690,000
<u>REPRIORITIZE PROPOSED -17-'22 CIP FUNDING: OTHER CIP PROJECTS</u>	
PK 0119002 Juanita Beach Phase 2	<u>\$ 808,000</u>
Subtotal Existing and Proposed CIP Funding:	\$ 4,690,000
Reallocation of Park Impact Fees from NM0086100 CKC Totem Lake Bridge:	\$ 1,860,000
REET Reserves	<u>\$ 509,225</u>
TOTAL FUNDING FOR PROJECT:	\$ 7,059,225

Some comments on the proposed funding plan:

- Original funding proposed in the 2017 – 2022 CIP for the 'CKC Right-of-Way' segment is proposed to be redirected to help fund development of the Yuppie Pawn site. Staff believes that development of the Yuppie Pawn site should instead be made a priority in anticipation of forthcoming private development such as the Village at Totem Lake. In the meantime the interim trail on the CKC will remain in use and a delay in park-related improvements within the Corridor may be prudent as future transit options continue to be considered.
- Two projects are proposed to be deferred:
 - The 132nd Square Park Playfields project has already been placed on hold pending implementation of a major Public Works stormwater detention project to occur in the park within the next six years (pending receipt of outside grant funding). The playfield project could be re-inserted into the Parks CIP at a subsequent budget update once the stormwater project is fully funded, and the projects could then be completed

concurrently.

- Funding for Juanita Beach Park improvements are also proposed to be redirected. This project provides for further implementation of that park's master plan, with a focus on additional development of the south (beach) side of the park. Additional funding for Juanita Beach would instead be considered during future updates to the CIP. Re-purposing of this funding would not affect replacement of the Juanita Beach Park Bathhouse, which is funded as a separate project.
- The level of park impact fees programmed into the CIP presumes that most of the substantial new residential development in the pipeline actually occurs over the next several years. In the event that the development does not take place due to economic or other factors, planned revenues would not materialize necessitating reprioritization or deferral of planned capital projects.

Funding Considerations for Further Implementation of Totem Lake Park Master Plan

Should there be interest in implementing additional elements of the Master Plan at this time, preliminary cost estimates have been identified for other segments as follows:

\$ 1.2 million North Edge
\$ 5.7 million West Edge
\$ 1.3 million King County Parcel (not including acquisition)
\$ 10+ million CKC Totem Lake Bridge (preliminary engineering study underway)

Options to fund one or more of these additional segments would likely require further CIP reprioritization, securing grants, and/or issuance of debt.

Park Board Review

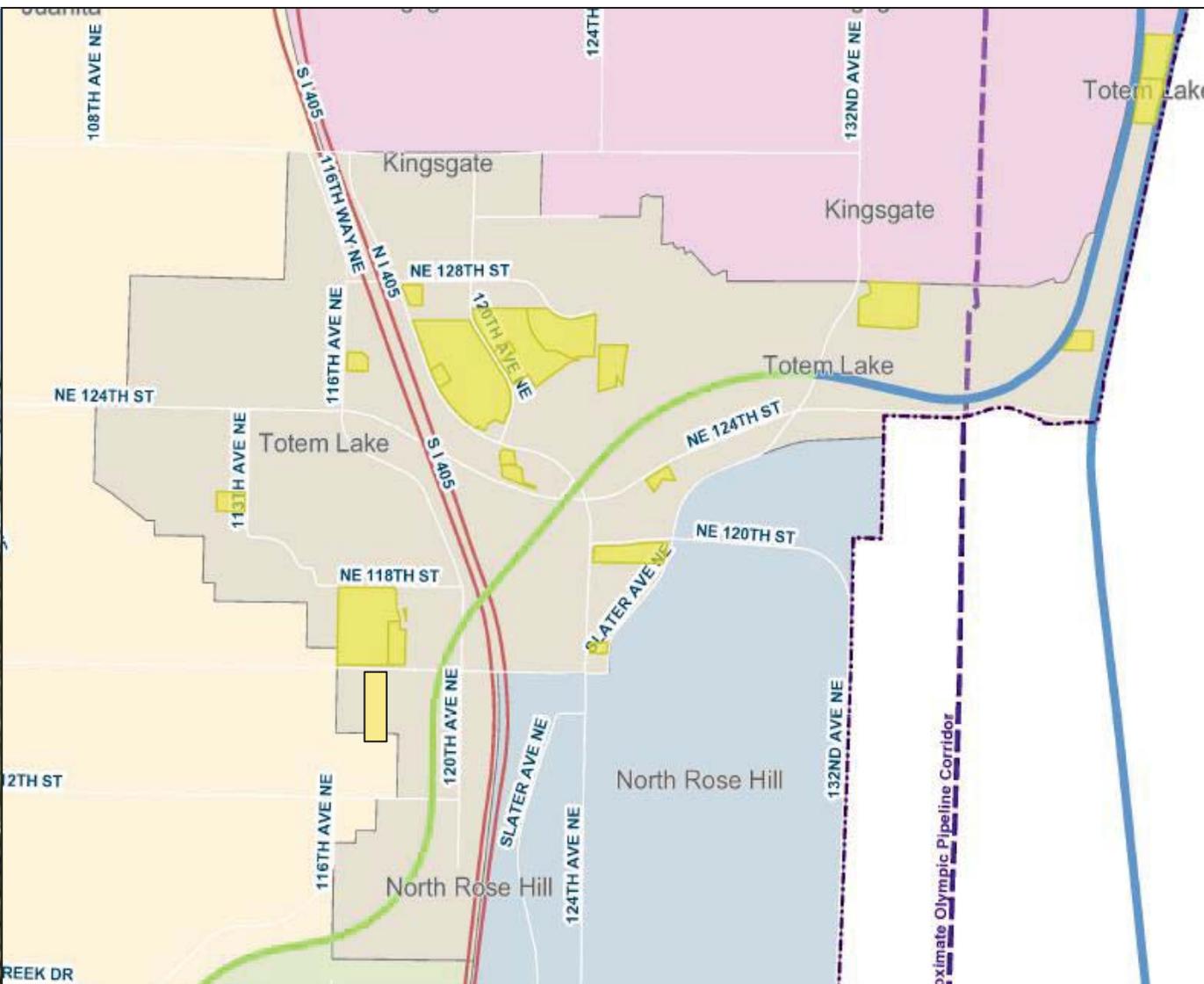
Staff has developed this funding option in preparation for the City Council's review of the City's Preliminary 2017 – 2022 Capital Improvement Program scheduled for November 1. As of the date of this memorandum the Park Board has not met to discuss the funding proposal. They are scheduled to do so on October 26. The Park Board's recommendation will be presented to the Council by staff at the November 1 meeting.

Next Steps

Pending City Council direction on November 1, staff will be prepared to incorporate necessary adjustments to the City's 2017 – 2022 CIP prior to final Council review and adoption in December.

Attachments

Totem Lake Area Development Pipeline



Pending Projects
(Sept. 2016)

SUMMARY:	Residential Projects (Units)	Office Projects (Sq. Ft.)	Commercial Projects (Sq. Ft.)	Institutional Projects (Sq. Ft.)	Hotel Projects (Rooms)
1. Under Construction	295	0	100,345	1,150	0
2. Building Permits Completed; No Construction	19	55,807	41,035	0	0
3. Building Permit Appl. In Review	589	375,459	311,229	0	10
4. Zoning Permit Approved, No Building Permit Application	243	226,780	125,436	21,430	0
5. Zoning Permit Appl. Under Review	1,471	12,516	117,787	175,060	0
6. Projects in Pre-Permit Review	764	75,774	73,842	0	0
TOTAL	3,381	746,336	769,674	197,640	10

Totem Lake Park Master Plan



- (A) Upland Park w/ restroom and kiosk
- (B) Back in angle parking (10 spaces)
- (C) Terraced seating areas and passive lawn
- (D) Play area
- (E) Lake promenade walk and seating nodes
- (F) Elevated lake Viewing pier
- (G) SCL powerline and hillside trails
- (H) Loop boardwalk trail w/ habitat viewing
- (I) Cross Kirkland Corridor improvements
- (J) Passive open space and trail connection
- (K) Bridge feature and wetland enhancement
- (L) Trail respite (seating, interpretive signs)
- (M) Spiral ramp and overpass crossing of 124th
- (N) Stormwater feature
- (O) Median planting w/ sidewalk improvements
- (P) Relocated bus stop
- (Q) Improved entry & sidewalk
- (R) Wetland buffer edge enhancement
- (S) Hummock plantings and habitat features
- (T) Wildlife habitat ponds (enhancement)

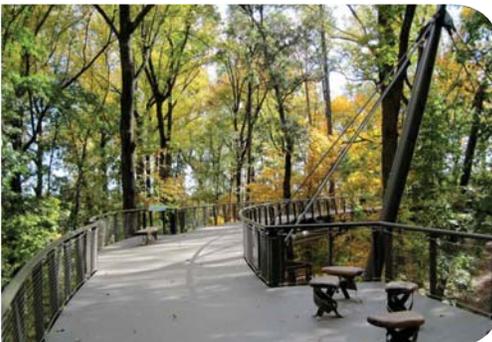


Attachment B

Totem Lake Park Preferred Plan



Inspired by the intersection of Nature and the City, artistic elements frame the centerpiece of this landscape. The site is connected to the CKC by way of a sculptural spiral ramp overpass that allows pedestrians to access the site above traffic. Artistic elements are imprinted on the land that then translate into habitat creation in the wetland for species diversity by way of removing invasive plants.



Upland Parcel Program

- Parking
- Restroom / kiosk
- Play area
- Picnic tables
- Seating terraces and benches
- Lake promenade and viewing pier
- Storm water facilities
- Wetland mitigation
- Habitat creation
- Connection to CKC and Mall



**CITY OF KIRKLAND**

Department of Parks & Community Services

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MEMORANDUM

To: Kurt Triplett, City Manager

From: Lynn Zwaagstra, Director of Parks and Community Services
Michael Cogle, Deputy Director

Date: October 6, 2016

Subject: Options for Converting Peter Kirk Pool to Year-Round Use

RECOMMENDATION

The Park Board recommends that the City conduct a feasibility study to consider a permanent structure to cover Peter Kirk Pool. Given concern over aging infrastructure of the nearly 50 year old facility, the Park Board also recommends that a concurrent comprehensive pool assessment be completed by an independent engineer to determine major maintenance and mechanical upgrades necessary to sustain the pool into the future.

BACKGROUND

During the City Council's review of the 2017-2022 Preliminary Capital Improvement Program (CIP) earlier this year the Council expressed interest in receiving recommendations from the Park Board on options for converting the outdoor Peter Kirk Pool facility from summer-only use to year-round use. This conversion from a seasonal to a year-round facility was to be considered irrespective of the future disposition of the Juanita Aquatic Center at Juanita High School.

This report provides information on the following options:

1. Purchase and install inflatable dome structure
2. Purchase and install a telescoping polycarbonate dome structure
3. Construct a permanent enclosure with retractable roof
4. Operate the pool uncovered year-round as an open-air facility
5. None of the above – maintain Peter Kirk Pool as a seasonal outdoor facility

History

Peter Kirk Pool was opened in 1969. There are two pool tanks: one is a 4500 square feet, 6-lane lap pool with diving area, and the other is a 780 square feet shallow teaching/wading pool. Including decking and other outdoor areas, the pool facility is comprised of about 20,000 square feet in total.

Since its initial opening the pool has undergone one major renovation, which took place in 1995. Completed improvements included new bathhouse, guard shack/mechanical building, and control

systems. In 2009 the Parks and Community Services Department commissioned a facility assessment which has resulted in a number of on-going facility capital investments related to increasing accessibility and safety and ensuring compliance with applicable health codes and laws. Most recently, a new larger and more efficient boiler was purchased and installed to heat the water.



Peter Kirk Pool in downtown Kirkland is one of King County's only public outdoor swimming pools.

The facility is open daily for 13 weeks each summer and provides swim lessons, public swimming, water aerobics, water safety classes, lap swims, competitive events, rentals, school outings, and special interest classes for all ages. The pool annually records approximately 17,000 to 18,000 user visits. The pool operates as a cost-neutral facility, with revenues and expenditures of approximately \$300,000 annually.

Inflatable Dome Structure Option

Inflatable structures (also referred to as air-supported or air-inflated structures) are most often dome-shaped structures used for warehousing, shelters, and sports and recreation facilities. Examples of local inflatable structures can be seen at Mercer Island Beach Club and Newport Hills Swim and Tennis Club in Bellevue.

Inflatable structures derive their structural integrity from the use of continuous internal pressurized air to inflate a pliable synthetic fabric envelope, so that air is the sole support of the structure, and where access is revolving doors which serve as airlocks.

Inflatable structures are advantageous due to their relative inexpensive cost and can be removed entirely during warmer summer months. However, they are generally deemed to be unattractive, particularly in an urban and park setting.

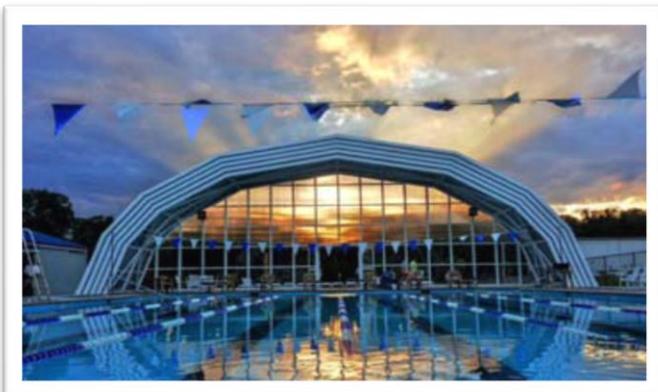


A rendition of an inflated dome structure at Peter Kirk Pool.

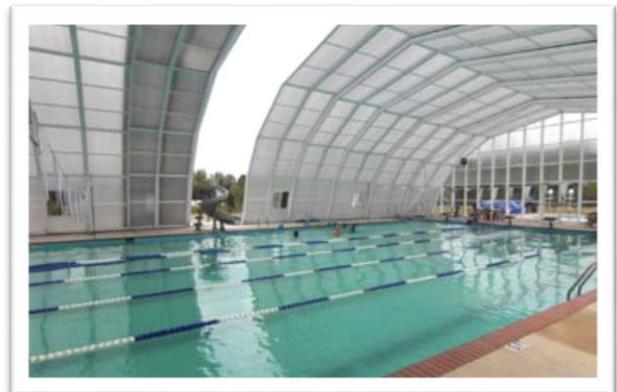
Telescoping Retractable Dome Option

A limited number of manufacturers offer a variation on the inflatable dome with a telescoping retractable dome structure which can be constructed of translucent polycarbonate panels. The structure can be mechanically opened or closed as needed (a somewhat similar local example would be the roof structure at Safeco Field in Seattle). Permanent gable walls are typically constructed at either end to ensure complete enclosure from the elements.

This is a relatively recent innovation and its application for larger municipal pools thus far has been somewhat limited. While more expensive than an inflatable dome, it offers a more cost effective solution as compared to permanent retractable roof options while offering similar benefits. This could be an intriguing option for the City but more analysis would be necessary to determine its feasibility for Peter Kirk Pool and the Pacific Northwest climate.



A telescoping dome structure is opened/closed mechanically.



Translucent panels provide natural light.

Permanent Enclosure with Retractable Roof Option

It is possible to enclose Peter Kirk Pool by constructing walls and a roof. Popular choices for enclosing outdoor pools include greenhouse-type glass structures which provide maximum connection to the outdoor environment, with options to include large sliding doors and/or retractable roofs to be opened during suitable weather conditions. Some facilities have included solar panels into the design as well. Examples locally of either fully or partially glass-enclosed pools include the Lynnwood Recreation Center and the Clark County YMCA in Vancouver, Washington.

A glass-enclosed structure provides a very attractive alternative for converting a seasonal pool to year-round use, but is comparatively expensive and can trigger additional facility improvements which can make the conversion even more costly. Heating, ventilation, and air conditioning systems must be carefully considered.



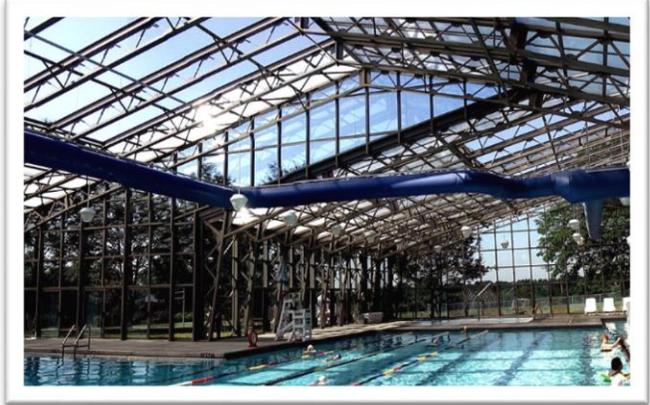
Glass enclosures maximize views & connection to outdoors.



Roofs can be equipped with photovoltaic panels.



Design of pool enclosures can be highly customized.



Retractable roofs are appealing during summer months.

In pursuing a permanent enclosure it is typical and prudent to concurrently evaluate the condition of the existing outdoor pool facility's components and amenities. Quite often extensive facility upgrades such as new and/or upgraded pool tanks, decking, mechanical systems and water treatment systems are completed in conjunction with the addition of a permanent enclosure. This brings the entire facility up to a fresher and more functional condition.

Year-Round - No Cover Option

Another option would be to operate the pool without a cover. Water temperature would be maintained at approximately 82 degrees.

An example of this option is the Samena Swim & Recreation Club in Bellevue. Samena is a membership-only private facility which has two adjacent pools, one indoor lap pool and one outdoor lap pool. Both pools are open year round. They offer adult lap swim, recreation classes, fitness, swim team and triathlon training.

Improved lighting of the decking and pool tank would be necessary to operate the pool during darkness, and a cost estimate of about \$25,000 for new lighting has been developed. Otherwise, no significant capital investments would be necessary to operate the pool as an open-air facility during non-summer months.

While Peter Kirk Pool could be used for some fitness and training purposes as an adjunct to the high school facility, it is unlikely that it would be appealing for children's swim lessons or family swim activities during poor weather months. Operating costs are difficult to estimate at this time and would be highly variable and dependent upon hours of operation and programming (to be determined based on user demand). Regardless, operations would likely need to be heavily subsidized by the City.

The Park Board and staff are skeptical that this option would be worthwhile as long as local indoor alternatives such as the Juanita Aquatic Center remain open. This option should best be viewed as an interim or emergency plan should the Juanita Aquatic Center be closed.



Winter outdoor swimming appeals to some die-hards.



But costs are incurred even if no one shows up!

Maintain Peter Kirk Pool as Summer-Only Facility

Peter Kirk Pool, approaching 50 years of operations, has a long history and tradition of being one of only a handful of outdoor public pools in King County. There is certainly some sentiment among Kirkland residents to maintain those traditions. An advantage of maintaining the pool as a summer-only facility is that, by concentrating pool operations within a 13-week window only, the Department of Parks and Community Services is able to operate the pool as a budget-neutral facility.

However, with Kirkland currently underserved with aquatic facilities, it is prudent for the City to explore options to expand usage where feasible.

Pool Cover Preliminary Cost Considerations

The following chart provides a very preliminary comparative estimate of both capital and operating costs related to the options for covering Peter Kirk Pool:

	INFLATABLE DOME	TELESCOPING DOME	PERMANENT ENCLOSURE
INITIAL CAPITAL COSTS	\$450,000 - \$600,000	\$1.2 million – \$1.6 million	\$3.0 million - \$4.0 million
ADDITIONAL OPERATING EXPENSES*	\$450,000 - \$500,000	\$450,000 - \$500,000	\$540,000 - \$600,000
ADDITIONAL REVENUE*	\$280,000 - \$320,000	\$280,000 - \$320,000	\$350,000 - \$400,000
ONGOING SUBSIDY	\$130,000 - \$220,000	\$130,000 - \$220,000	\$140,000 - \$250,000

*indicates expenses and revenues in excess of existing (summer) budgeted amounts

Preliminary cost estimates are based on discussions with vendors and other pool operators, and are take-offs based on square footage estimates. Architectural and engineering services would need to be commissioned in order to obtain more precise cost estimates. Costs do not include upgrades/replacement of existing pool features or systems.

Operating assumptions built into revenue and expense estimates include:

- Juanita Aquatic Center remains open and its existing programs continue.
- Programming during non-summer months would be 7-days per week.
- Programming would occur between 5:30 a.m. and 10:00 p.m.
- Staffing costs do not include additional administrative personnel, which may be required to effectively manage a year-round facility.

Other Considerations

Providing year-round programming has several implications / considerations that should be noted, including:

- Parking Impacts – Peter Kirk Pool users are directed to utilize the Municipal Parking Garage below the Kirkland Library. Consideration of parking impacts should be examined.
- Neighborhood Impacts – Year-round use of the pool may have negative impact to surrounding businesses and residences, particularly during early morning and late evening times.
- Aesthetics and Views – The aesthetics and view obstructions of an inflatable structure or a permanent enclosure should be fully considered.
- Excessive Facility Wear and Tear – Increased use of the pool facility will accelerate the need for major maintenance and replacement of pool facility components such as water pumps, filtration, and water treatment systems.

Recommended Next Steps

The Park Board encourages the City Council to continue to explore options for year-round use of Peter Kirk Pool. However, an inflatable dome structure or operating the pool year-round without a cover are not viewed as desirable options and should be eliminated from consideration.

The Park Board recommends that the City more fully examine the feasibility and costs of permanent enclosure options such as a permanent glass structure with retractable roof and/or a telescoping dome structure for Peter Kirk Pool. A feasibility study and cost analysis for covering the pool with a permanent structure should be completed concurrently with a comprehensive pool assessment to determine major maintenance and mechanical upgrades necessary to sustain the pool into the future.

A cost estimate to conduct the facility assessment and a feasibility/cost study for a pool enclosure is \$65,000.