

Exhibit A (181363 and 181364)
Authorized and Unissued Notes and Bonds

<u>Purpose</u>	<u>Resolution File No.</u>	<u>Adoption Date or Budget Year</u>	<u>Notes</u>	<u>Bonds</u>
Renewal & Development Projects				
Business Improvement Districts	161117	1/18/2017	32,164.02	32,164.02
Concentrated Blight Elimination	181353	1/15/2019	2,750,000.00	2,750,000.00
Housing Infrastructure Preservation Fund	181353	1/15/2019	100,000.00	100,000.00
Commercial In Rem Property Program	181353	1/15/2019	200,000.00	200,000.00
Brownfield Program	181353	1/15/2019	500,000.00	500,000.00
Housing Trust Fund	181353	1/15/2019	400,000.00	400,000.00
Code Compliance Program	181353	1/15/2019	800,000.00	800,000.00
Commercial Investment Program (Facade)	171355	1/17/2018	358,689.54	358,689.54
Commercial Investment Program (Facade)	181353	1/15/2019	500,000.00	500,000.00
Duplex Live - Work Rehab	181353	1/15/2019	150,000.00	150,000.00
Bronzeville In Rem Rehab	181353	1/15/2019	100,000.00	100,000.00
COP Houses	181353	1/15/2019	375,000.00	375,000.00
Library Improvements				
2016 Central Library Imp. Fund	151260	1/19/2016	504,970.00	504,970.00
2017 Central Library Imp. Fund	161115	1/18/2017	894,000.00	894,000.00
2018 Central Library Imp. Fund	171353	1/17/2018	745,000.00	745,000.00
2019 Central Library Imp. Fund	181351	1/15/2019	750,000.00	750,000.00
2017 Neighborhood Library Imp Fund	161115	1/18/2017	35,000.00	35,000.00
2016 Branch Library New Construction	151260	1/19/2016	294,609.00	294,609.00
2017 Branch Library New Construction	161115	1/18/2017	1,594,500.00	1,594,500.00
2018 Branch Library New Construction	171353	1/17/2018	3,950,000.00	3,950,000.00
2019 Branch Library New Construction	181351	1/15/2019	1,400,000.00	1,400,000.00
Public Buildings				
Space Planning - Facilities - Notes	161116	1/18/2017	263,175.00	
Space Planning - Facilities - Notes	171354	1/17/2018	400,000.00	
ADA Compliance Program	161116	1/18/2017	839,187.00	839,187.00
ADA Compliance Program	171354	1/17/2018	2,000,000.00	2,000,000.00
Facility Systems Program	171354	1/17/2018	413,964.00	413,964.00
Facility Systems Program	181352	1/15/2019	1,180,000.00	1,180,000.00
Facilities Exterior Upgrade Program	171354	1/17/2018	374,423.00	374,423.00
Facilities Exterior Upgrade Program	181352	1/15/2019	1,060,000.00	1,060,000.00
Environmental Remediation Program	181352	1/15/2019	115,000.00	115,000.00
City Hall Foundation & Hollow Walk	171354	1/17/2018	7,022,530.00	7,022,530.00
City Hall Foundation & Hollow Walk	181352	1/15/2019	7,500,000.00	7,500,000.00
2016 Health: Facilities Capital Projects	151258	1/19/2016	190,548.00	190,548.00
2017 Health: Facilities Capital Projects	161116	1/18/2017	226,000.00	226,000.00
2018 Health: Facilities Capital Projects	171354	1/17/2018	155,000.00	155,000.00
2019 Health: Facilities Capital Projects	181352	1/15/2019	155,000.00	155,000.00
2015 DPW B&F: Major Capital Equipment	141379	1/21/2015	182,601.00	182,601.00
DOA: HRMS Upgrade	151258	1/19/2016	24,876.00	24,876.00
Energy Efficiency & Renewable Energy	141379	1/21/2015	7,574.00	7,574.00
2015 DOA: Work Safety & Eff Proj, 809 Bldg 4th Flr	141379	1/21/2015	358,156.00	358,156.00
DOA: IT Upgrades	161116	1/18/2017	254,252.00	254,252.00
DOA: IT Upgrades	171354	1/17/2018	200,000.00	200,000.00
DOA: IT Upgrades	181352	1/15/2019	300,000.00	300,000.00
DOA: MapMilwaukee ArcGIS Upgrade	141379	1/21/2015	27,655.00	27,655.00
DOA: Mobile Device Security	141379	1/21/2015	100,905.00	100,905.00
DOA: E-Vault Upgrade	141379	1/21/2015	60,979.00	60,979.00
DOA: Tax Collection System	151258	1/19/2016	11,804.00	11,804.00
Assessor: Assessment Software	151258	1/19/2016	35,113.00	35,113.00
Assessor: Assessment Software	161116	1/18/2017	350,000.00	350,000.00

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Public Buildings (continued)				
Elec: Voting Machine Replacement	141379	1/21/2015	530,000.00	530,000.00
Court: CATS and Website Upgrade	141379	1/21/2015	65,309.00	65,309.00
Court: CATS and Website Upgrade	161116	1/18/2017	384,000.00	384,000.00
North Point Lake Tower Restoration	171354	1/17/2018	49,991.00	49,991.00
DOA: CSWAN-COMON Upgrade	161116	1/18/2017	54,284.00	54,284.00
DOA: Lagan Upgrade	151258	1/19/2016	220,000.00	220,000.00
DOA: Corporate Database Upgrade	151258	1/19/2016	48,362.00	48,362.00
DOA: Corporate Database Upgrade	161116	1/18/2017	200,000.00	200,000.00
DOA: Better Building Challenge	151258	1/19/2016	329,581.00	329,581.00
DOA: Better Building Challenge	171354	1/17/2018	100,000.00	100,000.00
DOA: Better Building Challenge	181352	1/15/2019	100,000.00	100,000.00
Health: Lead Paint Prevention	181352	1/15/2019	340,000.00	340,000.00
FMIS Upgrade	161116	1/18/2017	16,525.00	16,525.00
Assessor: Modernization	161116	1/18/2017	170,000.00	170,000.00
Assessor: Modernization	171354	1/17/2018	170,000.00	170,000.00
LRB Research Office Upgrade	161116	1/18/2017	155,155.00	155,155.00
Health: Lab Equipment	161116	1/18/2017	165,000.00	165,000.00
Health: Lab Equipment	171354	1/17/2018	165,000.00	165,000.00
Health: Lab Equipment	181352	1/15/2019	265,000.00	265,000.00
DOA: GIS Street Data Modernization	181352	1/15/2019	150,000.00	150,000.00
DOA: CityWatch Replacement	181352	1/15/2019	100,000.00	100,000.00
DOA: Phone Voice Recording Replacement	181352	1/15/2019	100,000.00	100,000.00
DOA: Office of African AM Affairs Construction	181352	1/15/2019	800,000.00	800,000.00
Clerk: CH Room 205 Reception Area Remodel	181352	1/15/2019	78,000.00	78,000.00
Clerk: Coucil Chambers TV Light Replacement	181352	1/15/2019	72,000.00	72,000.00
City Hall Elevator	181352	1/15/2019	500,000.00	500,000.00
Rubbish				
2014 Major Capital Equipment	131231	1/22/2014		
2015 Major Capital Equipment	141383	1/21/2015	271,460.00	271,460.00
2016 Major Capital Equipment	151247	1/19/2016	353,090.00	353,090.00
2017 Major Capital Equipment	161120	1/18/2017	1,500,000.00	1,500,000.00
2018 Major Capital Equipment	171358	1/17/2018	4,574,536.00	4,574,536.00
2019 Major Capital Equipment	181356	1/15/2019	6,100,000.00	6,100,000.00
Materials Recycling Facility	181356	1/15/2019	75,000.00	75,000.00
Harbor				
2017 Pier, Berth & Channel Improv.	161107	1/18/2017	100,000.00	100,000.00
2018 Pier, Berth & Channel Improv.	171345	1/17/2018	200,000.00	200,000.00
2019 Pier, Berth & Channel Improv.	181343	1/15/2019	200,000.00	200,000.00
Dockwall Rehabilitation	171345	1/17/2018	200,000.00	200,000.00
Roadway Paving	141384	1/21/2015	100,000.00	100,000.00
Roadway Paving	161107	1/18/2017	40,000.00	40,000.00
Rail Track & Service Upgrades	161107	1/18/2017	288,345.00	288,345.00
Rail Track & Service Upgrades	171345	1/17/2018	300,000.00	300,000.00
Rail Track & Service Upgrades	181343	1/15/2019	275,000.00	275,000.00
ADA Improvements	181343	1/15/2019	225,000.00	225,000.00
WISDOT Rail Grant	181343	1/15/2019	750,000.00	750,000.00

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Parking Facility Improvements				
2015 Misc Struc/Mech/Elec Maint	141376	1/21/2015	71,066.00	71,066.00
2016 Misc Struc/Mech/Elec Maint	151242	1/19/2016	100,000.00	100,000.00
2017 Misc Struc/Mech/Elec Maint	161113	1/18/2017	100,000.00	100,000.00
2019 Misc Struc/Mech/Elec Maint	181349	1/15/2019	50,000.00	50,000.00
1000 N Water Repairs	151242	1/19/2016	136,518.00	136,518.00
MacArther Sq Renovation (80170)	141376	1/21/2015	51,342.00	51,342.00
MacArther Sq Renovation (80170)	151242	1/19/2016	30,000.00	30,000.00
MacArther Sq Renovation (80170)	171351	1/17/2018	2,082,500.00	2,082,500.00
MacArther Sq Renovation (80170)	181349	1/15/2019	1,110,000.00	1,110,000.00
MacArther Sq Electrical Upgrade	171351	1/17/2018	41,144.00	41,144.00
MacArther Sq Electrical Upgrade	181349	1/15/2019	1,300,000.00	1,300,000.00
MacArther Sq Façade	181349	1/15/2019	775,000.00	775,000.00
Surface and Tow Lot Repaving	141376	1/21/2015	14,711.00	14,711.00
Surface and Tow Lot Repaving	151242	1/19/2016	200,000.00	200,000.00
Surface and Tow Lot Repaving	161113	1/18/2017	130,000.00	130,000.00
Surface and Tow Lot Repaving	171351	1/17/2018	50,000.00	50,000.00
Surface and Tow Lot Repaving	181349	1/15/2019	50,000.00	50,000.00
4th and Highland	141376	1/21/2015	137,000.00	137,000.00
4th and Highland	151242	1/19/2016	50,000.00	50,000.00
Milwaukee Michigan Parking Structure Repairs	141376	1/21/2015	44,451.00	44,451.00
Milwaukee Michigan Parking Structure Repairs	151242	1/19/2016	39,175.00	39,175.00
Single Space Parking Meters	161113	1/18/2017	915,967.00	915,967.00
Single Space Parking Meters	171351	1/17/2018	1,225,000.00	1,225,000.00
Revenue control & Access	151242	1/19/2016	50,000.00	50,000.00
ADA Compliance	181349	1/15/2019	100,000.00	100,000.00
Fire Stations & Improvements				
2016 Major Capital Equipment	151241	1/19/2016	13,112.00	13,112.00
2017 Major Capital Equipment	161111	1/18/2017	1,653,626.00	1,653,626.00
2018 Major Capital Equipment	171350	1/17/2018	1,106,000.00	1,106,000.00
2019 Major Capital Equipment	181347	1/15/2019	1,677,000.00	1,677,000.00
Auxiliary Power Supply	141374	1/21/2015	101,508.00	101,508.00
Auxiliary Power Supply	161111	1/18/2017	85,000.00	85,000.00
Auxiliary Power Supply	181347	1/15/2019	85,000.00	85,000.00
2017 Fire Facilities Maint Program	161112	1/18/2017	615,793.00	615,793.00
2018 Fire Facilities Maint Program	171349	1/17/2018	349,000.00	349,000.00
2019 Fire Facilities Maint Program	181348	1/15/2019	962,000.00	962,000.00
Fire Digital Radio	151241	1/19/2016	400,000.00	400,000.00
Fire Records Management	151241	1/19/2016	319,963.00	319,963.00
Fire Repair Shop Improvements	161112	1/18/2017	457,084.00	457,084.00
Extrication Equipment Replacement	171350	1/17/2018	100,000.00	100,000.00
Extrication Equipment Replacement	181347	1/15/2019	100,000.00	100,000.00
SCBA Replacement	181347	1/15/2019	500,000.00	500,000.00

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Police Facilities				
Remodel Admin Bldg Offices	151239	1/19/2016	400,000.00	400,000.00
Remodel Admin Bldg Offices	161110	1/18/2017	5,500,000.00	5,500,000.00
District Station Repairs	161110	1/18/2017	140,000.00	140,000.00
District Station Repairs	171348	1/17/2018	470,000.00	470,000.00
RMS System	161110	1/18/2017	413,000.00	413,000.00
RMS System	171348	1/17/2018	500,000.00	500,000.00
Uninterruptable Power Supply	151239	1/19/2016	361,047.00	361,047.00
Uninterruptable Power Supply	161110	1/18/2017	94,000.00	94,000.00
Upgrade CAD system	151239	1/19/2016	770,363.00	770,363.00
Upgrade CAD system	181346	1/15/2019	500,000.00	500,000.00
Interview Room Camera	171348	1/17/2018	150,000.00	150,000.00
911 and Phone System Upgrade	171348	1/17/2018	2,000,000.00	2,000,000.00
Police Vehicles	171348	1/17/2018	63,411.00	63,411.00
Police Vehicles	181346	1/15/2019	3,941,000.00	3,941,000.00
Telepone Switch Hardware Upgrade	181346	1/15/2019	300,000.00	300,000.00
CMS Upgrade	181346	1/15/2019	300,000.00	300,000.00
DataCom Center AHU	181346	1/15/2019	1,000,000.00	1,000,000.00
Project Greenlight	181346	1/15/2019	375,000.00	375,000.00
Street Improvements				
Street Lighting	171343	1/17/2018	3,600,000.00	3,600,000.00
Street Lighting	181341	1/15/2019	11,000,000.00	11,000,000.00
State & Federally Aided Streets	171344	1/17/2018	5,763,000.00	5,763,000.00
State & Federally Aided Streets	181342	1/15/2019	5,514,000.00	5,514,000.00
Street Improvements - Sidewalk	171344	1/17/2018	733,932.00	733,932.00
Street Improvements - Sidewalk	181342	1/15/2019	1,500,000.00	1,500,000.00
Street Reconstruction, Regular Pgm	161106	1/18/2017	2,900,000.00	2,900,000.00
Street Reconstruction, Regular Pgm	171344	1/17/2018	6,200,000.00	6,200,000.00
Street Reconstruction, Regular Pgm	181342	1/15/2019	6,200,000.00	6,200,000.00
Alley Reconstruction Program	141369	1/21/2015	578,669.00	578,669.00
Alley Reconstruction Program	161106	1/18/2017	700,000.00	700,000.00
Alley Reconstruction Program	171344	1/17/2018	500,000.00	500,000.00
Underground Electrical Manholes	161106	1/18/2017	300,000.00	300,000.00
Underground Electrical Manholes	171344	1/17/2018	400,000.00	400,000.00
Underground Electrical Manholes	181342	1/15/2019	700,000.00	700,000.00
Conduit & Manholes (private related use)	141369	1/21/2015	1,000,000.00	1,000,000.00
Conduit & Manholes (private related use)	151232	1/19/2016	736,000.00	736,000.00
Conduit & Manholes (private related use)	171344	1/17/2018	600,000.00	600,000.00
Conduit & Manholes (private related use)	181342	1/15/2019	1,800,000.00	1,800,000.00
Traffic Control Facilities	171344	1/17/2018	900,000.00	900,000.00
Traffic Control Facilities	181342	1/15/2019	3,000,000.00	3,000,000.00
High Impact Program	171344	1/17/2018	6,000,000.00	6,000,000.00
High Impact Program	181342	1/15/2019	7,400,000.00	7,400,000.00
Public Facility Communications	171344	1/17/2018	430,924.00	430,924.00
Public Facility Communications	181342	1/15/2019	540,000.00	540,000.00
Neighborhood Comm. Dist. St. Improvement	141369	1/21/2015	200,000.00	200,000.00
Lead Service Line Replacement Program	181342	1/15/2019	3,100,000.00	3,100,000.00

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Bridges & Viaducts				
State & Federally Aided Bridges BR3	171342	1/17/2018	525,000.00	525,000.00
State & Federally Aided Bridges BR3	181340	1/15/2019	100,000.00	100,000.00
Bridge Reconstruction - Local BR1	141367	1/21/2015	1,957,390.00	1,957,390.00
Bridge Reconstruction - Local BR1	151229	1/19/2016	4,100,000.00	4,100,000.00
Bridge Reconstruction - Local BR1	161104	1/18/2017	5,475,000.00	5,475,000.00
Bridge Reconstruction - Local BR1	171342	1/17/2018	5,900,000.00	5,900,000.00
Bridge Reconstruction - Local BR1	181340	1/15/2019	5,350,000.00	5,350,000.00
Parks & Public Grounds				
2016 Boulevard Plan	151238	1/19/2016	40,811.00	40,811.00
2018 MKE Plays Initiative	171347	1/17/2018	250,000.00	250,000.00
2019 MKE Plays Initiative	181345	1/15/2019	300,000.00	300,000.00
Special Assessments				
Special Assessments	181357	1/15/2019	1,700,000.00	1,700,000.00
School Purposes				
2015 Authorization	141377	1/21/2015	2,000,000.00	2,000,000.00
2016 Authorization	151257	1/19/2016	2,000,000.00	2,000,000.00
2017 Authorization	161114	1/18/2017	2,000,000.00	2,000,000.00
2018 Authorization	171352	1/17/2018	2,000,000.00	2,000,000.00
2019 Authorization	171352	1/17/2018	2,000,000.00	2,000,000.00
Sewer Maintenance Fund				
2016 Relief & Relay SM495	151234	1/19/2016	10,087,840.38	10,087,840.38
2017 Relief & Relay SM495	161108	1/18/2017	26,000,000.00	26,000,000.00
2018 Relief & Relay SM495	171346	1/17/2018	26,000,000.00	26,000,000.00
2019 Relief & Relay SM495	181344	1/15/2019	24,500,000.00	24,500,000.00
2015 I&I Reduction Projects SM494	141371	1/21/2015	5,000,000.00	5,000,000.00
2016 I&I Reduction Projects SM494	151234	1/19/2016	4,500,000.00	4,500,000.00
2017 I&I Reduction Projects SM494	161108	1/18/2017	5,000,000.00	5,000,000.00
2018 I&I Reduction Projects SM494	171346	1/17/2018	5,000,000.00	5,000,000.00
2019 I&I Reduction Projects SM494	181344	1/15/2019	2,000,000.00	2,000,000.00
2015 Water Quality Initiatives SM499	141371	1/21/2015	692,729.00	692,729.00
2016 Water Quality Initiatives SM499	151234	1/19/2016	1,000,000.00	1,000,000.00
2017 Water Quality Initiatives SM499	161108	1/18/2017	1,000,000.00	1,000,000.00
2018 Water Quality Initiatives SM499	171346	1/17/2018	1,500,000.00	1,500,000.00
2019 Water Quality Initiatives SM499	181344	1/15/2019	800,000.00	800,000.00
2015 Flood Mitigation SM497	141371	1/21/2015	2,680,404.00	2,680,404.00
2016 Flood Mitigation SM497	151234	1/19/2016	3,922,550.00	3,922,550.00
2017 Flood Mitigation SM497	161108	1/18/2017	1,168,298.00	1,168,298.00
Downspout Disconnection	181344	1/15/2019	2,000,000.00	2,000,000.00

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Water Works Borrowing				
2017 Replace Mains, Hydrants, & Valves	161119	1/18/2017	19,360,805.01	19,360,805.01
2018 Replace Mains, Hydrants, & Valves	171357	1/17/2018	24,810,000.00	24,810,000.00
2019 Replace Mains, Hydrants, & Valves	181355	1/15/2019	25,607,222.00	25,607,222.00
2017 Linwood Plant	161119	1/18/2017	500,000.00	500,000.00
2019 Linwood Plant	181355	1/15/2019	800,000.00	800,000.00
2018 Linwood Plant Treatment	171357	1/17/2018	1,550,000.00	1,550,000.00
2019 Linwood Plant Treatment	181355	1/15/2019	1,350,000.00	1,350,000.00
2017 Howard Plant	161119	1/18/2017	450,000.00	450,000.00
2019 Howard Plant	181355	1/15/2019	350,000.00	350,000.00
2018 Howard Plant Treatment	171357	1/17/2018	800,000.00	800,000.00
2019 Howard Plant Treatment	181355	1/15/2019	700,000.00	700,000.00
2018 Pump Facilities Improvements	171357	1/17/2018	97,000.00	97,000.00
2019 Pump Facilities Improvements	181355	1/15/2019	1,850,000.00	1,850,000.00
2017 Lead Service Lines - Special Assessment	161119	1/18/2017	250,000.00	250,000.00
2018 Lead Service Lines - Special Assessment	171357	1/17/2018	1,100,000.00	1,100,000.00
2019 Lead Service Lines - Special Assessment	181355	1/15/2019	1,300,000.00	1,300,000.00
Tax Incremental Districts				
New TID's 2016	151259	1/19/2016	12,739,158.67	12,739,158.67
Capitalized Interest 2016	151259	1/19/2016	4,900,000.00	4,900,000.00
New TID's 2017	161118	1/18/2017	17,819,971.56	17,819,971.56
Capitalized Interest 2017	161118	1/18/2017	4,000,000.00	4,000,000.00
New TID's 2018	171356	1/17/2018	40,000,000.00	40,000,000.00
Capitalized Interest 2018	171356	1/17/2018	4,000,000.00	4,000,000.00
New TID's 2019	181354	1/15/2019	40,000,000.00	40,000,000.00
Capitalized Interest 2019	181354	1/15/2019	4,000,000.00	4,000,000.00
Delinquent Tax Financing - Notes	181358	1/15/2019	37,000,000.00	
Contingent Borrowing				
Material Recovery Facility (131792 notes)	140034	4/22/2014	1,574,180.00	
Water - LSL Principal Forgiveness	171927	5/8/2018	8,742,898.29	8,742,898.29
Current year Unallocated		2019	175,000,000.00	175,000,000.00
CDBG	181359	1/15/2019	25,000,000.00	25,000,000.00
Refunding				
Refund Direct Loans	181363	1/15/2019	47,000,000.00	47,000,000.00
Refund 2009 B2, 2010 T3, 2010 B5	181360	1/15/2019	63,820,000.00	63,820,000.00
Total			893,097,876.47	853,860,521.47