

Exhibit A (171365 and 171366)
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				
BID BMD9 from 2014 NCD, new initial resolution	160395	7/26/2016	48,322.44	48,322.44
BID 32 W Oak exempt		7/26/2016	75,000.00	75,000.00
Business Improvement Districts	161117	1/18/2017	32,164.02	32,164.02
In Rem Property Program	171355	1/17/2018	515,000.00	515,000.00
Commercial In Rem Property Program	171355	1/17/2018	200,000.00	200,000.00
Housing Infrastructure Preservation Fund	171355	1/17/2018	250,000.00	250,000.00
Brownfield Program	171355	1/17/2018	250,000.00	250,000.00
Housing Trust Fund	171355	1/17/2018	400,000.00	400,000.00
Concentrated Blight Elimination	171355	1/17/2018	1,200,000.00	1,200,000.00
Commercial Investment Program (Facade)	161117	1/18/2017	703,729.54	703,729.54
Commercial Investment Program (Facade)	161117	1/18/2017	1,000,000.00	1,000,000.00
Strong Homes Loan Program	171355	1/17/2018	750,000.00	750,000.00
Code Compliance Program	171355	1/17/2018	800,000.00	800,000.00
Municipal Art Fund	171355	1/17/2018	25,000.00	25,000.00
Library Improvements				
2015 Central Library Imp. Fund	141378	1/21/2015	704,999.00	704,999.00
2016 Central Library Imp. Fund	151260	1/19/2016	944,749.00	944,749.00
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
2014 Library Facility Initiatives	131226	1/22/2014	177,513.00	177,513.00
2015 Neighborhood Library Imp Fund	141378	1/21/2015	161,449.00	161,449.00
2017 Neighborhood Library Imp Fund	161115	1/18/2017	350,000.00	350,000.00
2015 Branch Library New Construction	141378	1/21/2015	3,264,345.00	3,264,345.00
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
Public Buildings				
Space Planning - Facilities - Notes	151258	1/19/2016	66,747.00	
Space Planning - Facilities - Notes	161116	1/18/2017	400,000.00	
Space Planning - Facilities - Notes	171354	1/17/2018	400,000.00	
ADA Compliance Program	161116	1/18/2017	1,611,036.00	1,611,036.00
ADA Compliance Program	171354	1/17/2018	2,000,000.00	2,000,000.00
Facility Systems Program	161016	1/18/2017	280,530.00	280,530.00
Facility Systems Program	171354	1/17/2018	825,000.00	825,000.00
Facilities Exterior Upgrade Program	141379	1/21/2015	58,807.00	58,807.00
Facilities Exterior Upgrade Program	151258	1/19/2016	1,000,000.00	1,000,000.00
Facilities Exterior Upgrade Program	161116	1/18/2017	600,000.00	600,000.00
Facilities Exterior Upgrade Program	171354	1/17/2018	600,000.00	600,000.00
Environmental Remediation Program	171354	1/17/2018	100,000.00	100,000.00
City Hall Foundation	161116	1/18/2017	11,457,912.00	11,457,912.00
City Hall Foundation	171354	1/17/2018	9,000,000.00	9,000,000.00
2015 Health: Facilities Capital Projects	141379	1/21/2015	115,863.00	115,863.00
2016 Health: Facilities Capital Projects	151258	1/19/2016	340,000.00	340,000.00
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
2015 DPW B&F: Major Capital Equipment	141379	1/21/2015	189,248.00	189,248.00
2016 DPW B&F: Major Capital Equipment	151258	1/19/2016	372,299.00	372,299.00
DOA: HRMS Upgrade	151258	1/19/2016	24,876.00	24,876.00
Energy Efficiency & Renewable Energy	141379	1/21/2015	14,775.00	14,775.00
2015 DOA: Work Safety & Eff Proj, 809 Bldg 4th Flr	141379	1/21/2015	358,157.00	358,157.00
DOA: IT Upgrades	161116	1/18/2017	300,000.00	300,000.00

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Public Buildings (continued)				
DOA: IT Upgrades	171354	1/17/2018	200,000.00	200,000.00
City Hall 8th Floor Remodel - City Att	131227	1/22/2014	1,756,870.00	1,756,870.00
Fire Police Commission Remodeling	131227	1/22/2014	150,000.00	150,000.00
DOA: MapMilwaukee ArcGIS Upgrade	141379	1/21/2015	180,869.00	180,869.00
DOA: Mobile Device Security	141379	1/21/2015	160,000.00	160,000.00
DOA: E-Vault Upgrade	141379	1/21/2015	60,980.00	60,980.00
DOA: Tax Collection System	151258	1/19/2016	589,752.00	589,752.00
Assessor: Assessment Software	141379	1/21/2015	16,581.00	16,581.00
Assessor: Assessment Software	151258	1/19/2016	556,000.00	556,000.00
Assessor: Assessment Software	161116	1/18/2017	350,000.00	350,000.00
Elec: Voting Machine Replacement	141379	1/21/2015	530,000.00	530,000.00
Court: CATS and Website Upgrade	141379	1/21/2015	358,956.00	358,956.00
Court: CATS and Website Upgrade	161116	1/18/2017	384,000.00	384,000.00
North Point Lake Tower Restoration	141379	1/21/2015	25,243.00	25,243.00
North Point Lake Tower Restoration	171354	1/17/2018	50,000.00	50,000.00
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	231,542.00	231,542.00
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
Health: Lead Paint Prevention	171354	1/17/2018	340,000.00	340,000.00
FMIS Upgrade	161116	1/18/2017	1,300,000.00	1,300,000.00
Assessor: Modernization	161116	1/18/2017	170,000.00	170,000.00
Assessor: Modernization	171354	1/17/2018	170,000.00	170,000.00
DOA: Open Data	161116	1/18/2017	150,000.00	150,000.00
LRB Research Office Upgrade	161116	1/18/2017	434,869.00	434,869.00
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
Rubbish				
2014 Major Capital Equipment	131231	1/22/2014	12,740.00	12,740.00
2015 Major Capital Equipment	141383	1/21/2015	271,460.00	271,460.00
2016 Major Capital Equipment	151247	1/19/2016	1,262,767.00	1,262,767.00
2017 Major Capital Equipment	161120	1/18/2017	4,546,973.00	4,546,973.00
2018 Major Capital Equipment	171358	1/17/2018	6,300,000.00	6,300,000.00
Harbor				
2014 Pier, Berth & Channel Improv.	131232	1/22/2014	200,000.00	200,000.00
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
Dockwall Rehabilitation	141384	1/21/2015	9,999.85	9,999.85
Dockwall Rehabilitation	171345	1/17/2018	200,000.00	200,000.00
Terminal Resurfacing	141384	1/21/2015	250,000.00	250,000.00
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	141384	1/21/2015		
BMD9 to PT1320140102		1/21/2015	48,000.00	48,000.00
Rail Track & Service Upgrades	151233	1/19/2016	71,547.00	71,547.00
Rail Track & Service Upgrades	161107	1/18/2017	500,000.00	500,000.00
Rail Track & Service Upgrades	171345	1/17/2018	300,000.00	300,000.00
Port Facility Systems	131232	1/22/2014	50,000.00	50,000.00

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Parking Facility Improvements				
2015 Misc Struc/Mech/Elec Maint	141376	1/21/2015	119,412.00	119,412.00
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
1000 N Water Repairs	151242	1/19/2016	143,775.00	143,775.00
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 Electrical Upgrade	171351	1/17/2018	67,000.00	67,000.00
Surface and Tow Lot Repaving	141376	1/21/2015	16,965.00	16,965.00
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
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
2nd and Plankington	161113	1/18/2017	3,862.00	3,862.00
Milwaukee Michigan Parking Structure Repairs	141376	1/21/2015	44,451.00	44,451.00
Milwaukee Michigan Parking Structure Repairs	151242	1/19/2016	40,666.00	40,666.00
Single Space Parking Meters	141376	1/21/2015	625,028.00	625,028.00
Single Space Parking Meters	151242	1/19/2016	650,000.00	650,000.00
Single Space Parking Meters	161113	1/18/2017	1,000,000.00	1,000,000.00
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
Fire Stations & Improvements				
2016 Major Capital Equipment	151241	1/19/2016	692,305.00	692,305.00
2017 Major Capital Equipment	161111	1/18/2017	1,680,000.00	1,680,000.00
2018 Major Capital Equipment	171350	1/17/2018	1,106,000.00	1,106,000.00
Auxiliary Power Supply	131222	1/22/2014	50,115.00	50,115.00
Auxiliary Power Supply	141374	1/21/2015	110,000.00	110,000.00
Auxiliary Power Supply	161111	1/18/2017	85,000.00	85,000.00
2016 Fire Facilities Maint Program	151240	1/19/2016	287,933.00	287,933.00
2017 Fire Facilities Maint Program	161112	1/18/2017	700,000.00	700,000.00
2018 Fire Facilities Maint Program	171349	1/17/2018	349,000.00	349,000.00
Fire Digital Radio	151241	1/19/2016	400,000.00	400,000.00
Fire Records Management	151241	1/19/2016	550,000.00	550,000.00
Fire Repair Shop Improvements	161112	1/18/2017	483,000.00	483,000.00
Extrication Equipment Replacement	171350	1/17/2018	100,000.00	100,000.00
Police Facilities				
Remodel Admin Bldg Offices	141373	1/21/2015	147,640.00	147,640.00
Remodel Admin Bldg Offices	151239	1/19/2016	2,100,000.00	2,100,000.00
Remodel Admin Bldg Offices	161110	1/18/2017	5,500,000.00	5,500,000.00
District Station Repairs	151239	1/19/2016	467,076.00	467,076.00
District Station Repairs	161110	1/18/2017	280,000.00	280,000.00
District Station Repairs	171348	1/17/2018	470,000.00	470,000.00
Radio & Communications Upgrads	151239	1/19/2016	82,009.00	82,009.00
RMS System	151239	1/19/2016	529,567.00	529,567.00
RMS System	161110	1/18/2017	1,715,000.00	1,715,000.00
RMS System	171348	1/17/2018	500,000.00	500,000.00
Uninterruptable power supply	131221	1/22/2014	17,300.00	17,300.00
Uninterruptable Power Supply	151239	1/19/2016	425,000.00	425,000.00
Uninterruptable Power Supply	161110	1/18/2017	94,000.00	94,000.00
Server and Storage Replacement	151239	1/19/2016	100,757.00	100,757.00

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Police Facilities (continued)				
Upgrade CAD system	151239	1/19/2016	807,008.00	807,008.00
Radio Dispatch Console Upgrade	151239	1/19/2016	266,251.00	266,251.00
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	3,881,000.00	3,881,000.00
Bridges & Viaducts				
State & Federally Aided Bridges BR3	151229	1/19/2016	277,000.00	277,000.00
State & Federally Aided Bridges BR3	161104	1/18/2017	1,388,000.00	1,388,000.00
State & Federally Aided Bridges BR3	171342	1/17/2018	525,000.00	525,000.00
Bridge Reconstruction - Local BR1	131215	1/22/2014	1,182,157.00	1,182,157.00
Bridge Reconstruction - Local BR1	141367	1/21/2015	8,810,000.00	8,810,000.00
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
Street Improvements				
Street Lighting	161105	1/18/2017	3,725,209.00	3,725,209.00
Street Lighting	171343	1/17/2018	5,000,000.00	5,000,000.00
State & Federally Aided Streets	151232	1/19/2016	8,136,000.00	8,136,000.00
State & Federally Aided Streets	161106	1/18/2017	4,139,000.00	4,139,000.00
State & Federally Aided Streets	171344	1/17/2018	5,763,000.00	5,763,000.00
New Street Construction	131217	1/22/2014	200,000.00	200,000.00
Street Improvements - Sidewalk	161106	1/18/2017	625,082.00	625,082.00
Street Improvements - Sidewalk	171344	1/17/2018	1,000,000.00	1,000,000.00
Street Reconstruction, Regular Pgm	151232	1/19/2016	1,165,171.00	1,165,171.00
Street Reconstruction, Regular Pgm	161106	1/18/2017	7,500,000.00	7,500,000.00
Street Reconstruction, Regular Pgm	171344	1/17/2018	6,200,000.00	6,200,000.00
Alley Reconstruction Program	141369	1/21/2015	1,211,581.00	1,211,581.00
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	151232	1/19/2016	545,969.00	545,969.00
Underground Electrical Manholes	161106	1/18/2017	800,000.00	800,000.00
Underground Electrical Manholes	171344	1/17/2018	400,000.00	400,000.00
Conduit & Manholes (private related use)	131217	1/22/2014	500,000.00	500,000.00
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
Traffic Control Facilities	161106	1/18/2017	1,135,873.00	1,135,873.00
Traffic Control Facilities	171344	1/17/2018	2,200,000.00	2,200,000.00
High Impact Program	161106	1/18/2017	4,355,347.00	4,355,347.00
High Impact Program	171344	1/17/2018	7,400,000.00	7,400,000.00
Public Facility Communications	161106	1/18/2017	575,000.00	575,000.00
Public Facility Communications	171344	1/17/2018	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	171344	1/17/2018	1,400,000.00	1,400,000.00
Parks & Public Grounds				
2015 Boulevard Plan	141372	1/21/2015	177,708.00	177,708.00
2016 Boulevard Plan	151238	1/19/2016	250,000.00	250,000.00
2015 Recreational Facilities City Wide	141372	1/21/2015		
BMD9 to Playground Imp Challenge Fund		1/21/2015	24,965.00	24,965.00
2018 MKE Plays Initiative	171347	1/17/2018	250,000.00	250,000.00

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Special Assessments				
Special Assessments	171360	1/17/2018	1,785,000.00	1,785,000.00
School Purposes				
2014 Authorization	131225	1/22/2014	2,000,000.00	2,000,000.00
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
Sewer Maintenance Fund				
2016 Relief & Relay	151234	1/19/2016	18,134,164.57	18,134,164.57
2016 Relief & Relay - DSRF	151234	1/19/2016	2,600,000.00	2,600,000.00
2017 Relief & Relay	161108	1/18/2017	26,000,000.00	26,000,000.00
2018 Relief & Relay	171346	1/17/2018	26,000,000.00	26,000,000.00
2014 I&I Reduction Projects	131219	1/22/2014	4,894,210.00	4,894,210.00
2015 I&I Reduction Projects	141371	1/21/2015	5,000,000.00	5,000,000.00
2016 I&I Reduction Projects	151234	1/19/2016	4,500,000.00	4,500,000.00
2016 I&I Reduction Projects - DSRF	151234	1/19/2016	450,000.00	450,000.00
2017 I&I Reduction Projects	161108	1/18/2017	5,000,000.00	5,000,000.00
2018 I&I Reduction Projects	171346	1/17/2018	5,000,000.00	5,000,000.00
2015 Water Quality Initiatives	141371	1/21/2015	692,729.00	692,729.00
2016 Water Quality Initiatives	151234	1/19/2016	1,000,000.00	1,000,000.00
2016 Water Quality Initiatives - DSRF	151234	1/19/2016	100,000.00	100,000.00
2017 Water Quality Initiatives	161108	1/18/2017	1,000,000.00	1,000,000.00
2018 Water Quality Initiatives	171346	1/17/2018	1,500,000.00	1,500,000.00
2015 Flood Mitigation	141371	1/21/2015	2,680,404.00	2,680,404.00
2016 Flood Mitigation	151234	1/19/2016	3,922,550.00	3,922,550.00
2016 Flood Mitigation - DSRF	151234	1/19/2016	430,000.00	430,000.00
2017 Flood Mitigation	161108	1/18/2017	1,468,298.00	1,468,298.00
Water Works Borrowing				
2016 Replace Mains, Hydrants, & Valves WT41016	151244	1/19/2016	6,931,772.89	6,931,772.89
2016 Replace Mains, Hydrants, & Valves - DSRF	151244	1/19/2016	1,168,000.00	1,168,000.00
2017 Replace Mains, Hydrants, & Valves	161119	1/18/2017	20,988,000.00	20,988,000.00
2018 Replace Mains, Hydrants, & Valves	171357	1/17/2018	24,307,000.00	24,307,000.00
2017 Linwood Plant	161119	1/18/2017	500,000.00	500,000.00
2018 Linwood Plant Building	171357	1/17/2018	275,000.00	275,000.00
2018 Linwood Plant Treatment	171357	1/17/2018	1,550,000.00	1,550,000.00
2017 Howard Plant	161119	1/18/2017	450,000.00	450,000.00
2018 Howard Plant Building	171357	1/17/2018	375,000.00	375,000.00
2018 Howard Plant Treatment	171357	1/17/2018	800,000.00	800,000.00
2017 Lead Service Lines - Special Assessment	161119	1/18/2017	600,000.00	600,000.00
2018 Lead Service Lines - Special Assessment	171357	1/17/2018	1,100,000.00	1,100,000.00
Tax Incremental Districts				
New TID's 2014	131229	1/22/2014	7,787,212.46	7,787,212.46
New TID's (Notes only) 2015	141323	1/21/2015	2,895,590.59	2,895,590.59
New TID's 2016	151259	1/19/2016	28,706,041.62	28,706,041.62
Capitalized Interest 2016	151259	1/19/2016	4,900,000.00	4,900,000.00
New TID's 2017	161118	1/18/2017	29,703,895.79	29,703,895.79
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

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Delinquent Tax Financing - Notes	171359	1/17/2018	37,000,000.00	
Contingent Borrowing				
Material Recovery Facility (131792)	140034	4/22/2014	1,620,066.40	1,620,066.40
Water - LSL Principal Forgiveness	170239	6/20/2017	2,694,124.29	
Working Capital	171054	11/28/2017	70,000,000.00	
Lead Service Lines	TBD	TBD	2,000,000.00	2,000,000.00
Current year Unallocated		2018	200,000,000.00	198,000,000.00
Refunding				
Refund Direct Loans	171365	1/17/2018	58,000,000.00	58,000,000.00
Refund 2008 B7	171362	1/17/2018	6,925,000.00	6,925,000.00
Refund 2009 B2	171362	1/17/2018	17,450,000.00	17,450,000.00
Refund 2010 T3	171362	1/17/2018	7,970,000.00	7,970,000.00
Refund 2010 B5	171362	1/17/2018	38,400,000.00	38,400,000.00
Total			948,599,727.46	836,038,856.17