

WATER CAPITAL PROJECTS
RESTRICTED CASH BALANCES - ENTERPRISE REVENUE
May-23

PROJECT #	PROJECT NAME	PROJECT DESCRIPTION	END BALANCE	PROJECT STATUS
W0003	CIP ENT REV CONTINGENCY	Contingency account if projects need additional funding	505,769.55	
W0119	HIGHWAY CROSSINGS	Install or replace large distribution mains under major highways	650,000.00	Annual Project
W0123	CLOSE LOOPS	Extend mains and "close loops" to maintain fire flow	654,521.27	Annual Project
W0125	MAIN RELOCATIONS	Relocate mains due to reconstruction, widening or rerouting of streets, highways or other infrastructure	74,313.72	Annual Project
W0127	FIRE HYDRANT AND VALVE REPL	Replace obsolete fire hydrants and valves	9,899.13	This was previously an annual project. Funds moved to operating budget in FY 2021
W0128	NEW SERVICE LINES	Install/replace services to meet growth	566,858.06	Annual Project
W0130	MAIN REPLACEMENTS	Replace mains for increased reliability and to maintain fire flow	525,815.73	Annual Project
W0140	REFURBISH DEEP WELL FOR EMERGENCY	Refurbish deep well as an emergency source of water	550,000.00	Design contract is being negotiated.
W0143	DIFFERENTIAL PAYMENTS	Pay Developers the difference between 6" water main and the size of the main required for system-wide needs and future growth	175,326.17	Annual Project
W0145	WEST ASH PUMP STATION UPGRADE	Install new variable drive pumps to convert the existing constant drive pumps at the West Ash pumping station. Complete electrical upgrade and building improvements	300,000.00	Staff is currently evaluating bids received for construction.
W0200	BUS LOOP PHASE 6A 3,200' MAIN REPLA	Replace 3200' of main on BL 70 (Fay St to Old 63)	969,143.50	Easement acquisition is in progress.
W0231	METER REPLACEMENT PROGRAM	Replace water meters	35,222.19	This was previously an annual project. Funds moved to operating budget in FY 2021
W0234	LIME SOFT DISCHARGE PIPE	Lime softening residuals to discharge to the Missouri River	60,794.18	This project will not be completed and remaining funds will be moved to other projects as needed or back to its original funding source.
W0236	WTP UPGRADE - PHASE 1	The project will restore the plant's capacity to treat 32 million gallons of water per day and include rehabilitation and replacement projects that will enhance the performance and extend the life of this critical facility.	150,000.00	Project is ready to bid following bond sale.

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W0249	DEEP WELL ABANDONMENT	Abandonment/proper closing/grouting of in-town candidate deep wells	200,000.00	Annual Project
W0256	NIFONG BLVD IMPROVEMENTS	Main adjustments coinciding with Nifong Blvd roadway improvements from Bethel St. to Vawter School Rd	145,438.54	This project is complete. Staff will work with Finance to return remaining funds back to their original funding source
W0263	STOREROOM AND ENC EQUIP PAR	Construct a new warehouse with enclosed	547,048.00	This project is currently on hold.
W0264	WELL AND PUMP STATION CONTROL	Control upgrades for wells and pump stations. Existing control systems have reached their end of life and are no longer supported by the manufacturer	295,497.75	Funds are being used to upgrade Well Controls and update controls at water towers.
W0273	COUNTRY CLUB DR S/E WALNUT PHASE 2	Replace and close loop (approx 3,200') along Country Club Drive S to East Walnut	546,082.47	Easement acquisition is in progress.
W0274	WELL FIELD VALVE UPGRADES	Installation of additional main line valves in the McBaine Well Field and modifications of existing valve pits	333,700.00	Project is ready for a public hearing. In house design is nearing completion.
W0280	NEW SOUTHEAST PUMP STATION	Installation of booster pump station and pressure zone in the Phillips Lake Area.	300,000.00	Construction permit has been issued. Easement acquisition is in progress.
W0282	ANNUAL TOWER & RESERVOIR MAINTENANC	Maintenance of our current tower and reservoirs	2,300,000.00	Annual Project
W0283	FIBER TO WATER FACILITIES	Fiber optic communications to new water facilities. This allows water system operators visibility to the state of the water system and effectively operate it remotely	375,000.00	Project is in preliminary design.
W0290	OLD 63,GORDON ST&CHARLES ST WT MAIN	Replace and upgrade aging water distribution infrastructure to address fire flow and maintenance history	300,000.00	In house design is 90% complete.
W0291	RIDGEMONT RD&HIGHRI DGE WT MAIN REPL	Replace aging water distribution infrastructure prior to pending street improvements	1,013,916.86	Construction contract has been awarded.
W0292	SINCLAIR RD,NIFONG,SOUTHMP TN LP CLO	Complete loop closure providing redundant feed to area	440,000.00	Construction contract has been awarded.
W0295	WALNUT,MELBOURNE ST-WILLIAM ST LOC	Replace aging water main prior to proposed street improvements	5,764.59	Project is complete.
W0297	LESLIE LN- GARTH - PROVIDENCE RELOC	Relocation/replacement of existing water main prior to proposed street work	218,200.94	Project is ready to bid following additional funding appropriation included in the FY24 budget.
W0298	ST. CHARLES TO MEXICO G. MAIN REPL	Replace approx 8,000' of water main along Lake of the Woods Road from St. Charles to Mexico Gravel Rd	250,270.53	Preliminary design is underway. Project is ready for a public hearing.
W0301	RPL. ALLUVIAL WELL #1	Replacement of Alluvial Well #1 in the McBaine Well Field	700,000.00	Project is under design.

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PROJECT #	PROJECT NAME	PROJECT DESCRIPTION	END BALANCE	PROJECT STATUS
W0302	RPL. ALLUVIAL WELL #10	Replacement of Alluvial Well #10 in the McBaine Well Field	700,000.00	Project is under design.
W0303	STRAWN ROAD MAIN EXTENSION	Extension of approx 3,150' of 12" water main along Strawn Road.	600,000.00	Project is dependent upon development.
TOTAL			14,498,583.18	

**WATER CAPITAL PROJECTS
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PROJECT #	PROJECT NAME	PROJECT DESCRIPTION	END BALANCE	PROJECT STATUS
W0145	WEST ASH PUMP STATION UPGRADE	Install new variable drive pumps to convert the existing constant drive pumps at the West Ash pumping station. Complete electrical upgrade and building improvements	2,568,414.43	Staff is currently evaluating bids received for construction.
W0150	BACK UP GENERATORS	Generation to provide for emergency backup power for the Aquifer storage and recovery (ASRs) and pump stations	800,000.00	Design contract is being negotiated.
W0230	BROWN STATION RT B PEABODY	Replace 16" ductile iron water main along Route B from Brown Station Road and Peabody Road	336,083.47	Project is under construction.
W0236	WTP UPGRADE - PHASE 1	The project will restore the plant's capacity to treat 32 million gallons of water per day and include rehabilitation and replacement projects that will enhance the performance and extend the life of this critical facility.	1,581,679.34	Project is ready to bid following bond sale.
W0279	NEW WELL PLATFORMS	Replacement of well platforms on eight wells in the McBaine well field	200,000.00	Design contract is being negotiated.
W0280	NEW SOUTHEAST PUMP STATION	Installation of booster pump station and pressure zone in the Phillips Lake Area.	2,511,872.09	Construction permit has been issued. Easement acquisition is in progress.
W0286	NEW ELEVATED STORAGE	Install a new elevated storage to help maintain system pressure	2,997,551.44	Easement acquisition is in progress.
W0287	RIBACK RD & BLACKBERRY WT MAIN REPL	Upgrade water mains along Riback Rd and Blackberry Ln to address fire flow	120,000.00	Project is ready for construction.
W0288	S GLENWOOD AVE & CT WT MAIN RPL	Replace aging water distribution infrastructure due to maintenance history	115,629.02	Project is ready to bid following additional funding appropriation included in the FY24 budget.
W0289	WOODBINE DR WT MAIN REPLACEMENT	Replace aging water distribution infrastructure due to maintenance history	120,426.94	Project is ready to bid following additional funding appropriation included in the FY24 budget.
W0298	ST. CHARLES TO MEXICO G. MAIN REPL	Replace approx 8,000' of water main along Lake of the Woods Road from St. Charles to Mexico Gravel Rd	920,374.47	Project is ready to bid following additional funding appropriation included in the FY24 budget.
TOTAL			12,272,031.20	

ELECTRIC CAPITAL PROJECTS RESTRICTED CASH BALANCES - ENTERPRISE REVENUE May-23				
PROJECT #	PROJECT NAME	PROJECT DESCRIPTION	END BALANCE	PROJECT STATUS
E0003	CIP ENT REV CONTINGENCY	Contingency account if projects need additional funding	261,363.82	
E0021	DISTRIBUTION TRANSFORMERS	New Transformers and capacitors for electric system expansion	1,712,628.63	Annual project
E0027	UNDERGROUNDING POWER LINE	Convert existing overhead system to underground	1,070,238.82	Annual project
E0052	STREET LIGHT ADDITIONS	Replace existing street lights and install new street lights	618,429.04	Annual project
E0053	NEW ELECTRIC CONNECTIONS	Installation of new electric services	3,027,538.92	Annual project
E0082	FIBER OPTIC CABLE	Expand and improve the fiber optic system	349,995.32	Annual project
E0101	TRANSMISSION MAINTENANCE	Replace the electric transmission system	59,422.11	This was previously an annual project. Funds moved to operating budget in FY 2021
E0107	UNDERGROUND MAINTENANCE	Maintain existing underground electric system	1,518.97	This was previously an annual project. Funds moved to operating budget in FY 2021
E0115	SUBSTATION FEEDERS	Major electrical feeders for substations	3,830,603.61	Annual project
E0116	SYSTEM EXPANSION-RESIDENTIAL	Install electric lines in new residential developments	1,915,305.50	Annual project
E0117	SYSTEM EXPANSION - COMMERCIAL	Install electric lines in new commercial developments	2,163,527.99	Annual project
E0121	NEW SOUTH SIDE SUBSTATION	Add a new 161/13.8kV substation on the south side of Columbia to better distribute the load at the existing substations due to current and new growth	44,843.00	Project on hold pending City Council decision on transmission expansion.
E0140	BUSINESS LOOP PHASE 5	Convert 3,600' of overhead line to underground between Providence Rd and College Ave	100,000.00	Additional project funding of \$5,000,000 identified in current CIP for FY25.
E0145	69KV RELAY REPL 2 GRINDSTONE	Upgrade relays at electric substations	32,042.59	Annual project
E0148	MILL CREEK SUB TRANS CONNEC	Build transmission lines for the interconnection of the proposed Mill Creek Substation with Grindstone & Perche substations	1,678,391.62	Project on hold pending City Council decision on transmission expansion.
E0153	REPL CIRCUIT BREAKERS	Replace old technology circuit breakers on 69kV and 161kV lines at all substations	525,092.05	Annual project
E0175	LANDFILL GENERATOR UNIT 4	Install last generator in space available at Landfill Gas Generation site	650,000.00	Generator ordered with expected delivery and installation 1st qtr 2024
E0176	STOREROOM AND ENCLOSE EQUIP	Construct a new warehouse with enclosed parking for equipment.	189,590.50	This project is currently on hold.
E0179	COLLEGE UNDERGROUND UNIV TO BOUCH	Underground section of College Avenue	332,373.00	This project is complete. Staff will work with Finance to return remaining funds back to their original funding source

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PROJECT #	PROJECT NAME	PROJECT DESCRIPTION	END BALANCE	PROJECT STATUS
E0180	DOWNTOWN STREET LIGHTS	Replace streetlights downtown	87,598.40	Software and network connection installed. Streetlight installation is substantially complete.
E0182	MERCURY VAPOR STREETLIGHT	Replace remaining Mercury vapor streetlights in system	202,042.54	Annual project
E0184	PERCHE SUBSTATION TRANSFORMER	Install additional substation transformer due to electrical load approaching available capacity	1,000,000.00	Project set for public hearing in August.
E0189	REPL UPGRADE SUBSTATION SWITCHGEAR	Upgrade switchgear in substations	200,000.00	Annual project
E0192	SUBSTATION TRNASFORMER REPL	Replace substation transformers	500,000.00	Annual project
E0194	SUBSTATION UPGRADE GSTN PERCHER	Upgrades required inside substations for new transmission lines at Grindstone and Perche	176,026.00	Project set for public hearing in August. Will replace non-functional circtui switchers with circuit breakers and reconfigure the 161kV bus.
E0199	RELOCATION DISTRIBUTION LINES	Relocation of electric distribution lines for streets and other projects	894,561.35	Annual project
E0200	DISTRIBUTION AUTOMATION	Pilot program to install and upgrades existing systems and meters as part of a automatic metering infrastructure and associated communications program	513,831.33	Annual project
E0201	RECONFIG SUBSTATION FEEDER	Install new feeders from the new Mill Creek substation to off load other substations	2,000,028.64	Project on hold pending City Council decision on transmission expansion.
E0204	MOORE'S LAKE RESTORATION	Restoration of More's Lake at the Municipal Power Plant	301,121.11	Shelter Complete, Island bridge delivered and onsite waiting for concrete piers to set, Discussions with Conservation Dept to stock lake
E0208	MPP DECOMMISSIONING	Eliminate obsolete portions of the Municipal Power Plant that are no longer in service, including asbestos abatement and removal of out of service equipment	418,147.30	Annual project
E0211	SEWER CONN TO MUNICIPAL POWER PLANT	New sewer service to the Municipal Power Plant	12,095.49	This project is complete. Staff will work with Finance to return remaining funds back to their original funding source
E0216	UPGRADE OF ENERGY MANAGEMENT SYSTEM	Purchase new computer hardware and install new software for existing Energy Management System. Current system is approaching end of life and requires replacement	264,546.95	Hardware onsite and software being installed with expected cutover in early August
E0220	UMC 69KV TIE LINE	Install 69kV tie-line to provide a second 69kV source to the University of Missouri system	30,000.00	University of Missouri has hired an engineering firm to design the required infrastructure. They are working with W&L engineering on this project. Agreement between City and University is still required.
TOTAL			25,162,904.60	

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PROJECT #	PROJECT NAME	PROJECT DESCRIPTION	END BALANCE	PROJECT STATUS
E0121	NEW SOUTH SIDE SUBSTATION	Add a new 161/13.8kV substation on the south side of Columbia to better distribute the load at the existing substations due to current and new growth	3,338,602.91	Project on hold pending City Council decision on transmission expansion.
E0148	MILL CREEK SUB TRANS CONNEC	Build transmission lines for the interconnection of the proposed Mill Creek Substation with Grindstone & Perche substations	3,554,982.68	Project on hold pending City Council decision on transmission expansion.
E0151	POWER PLANT SUBSTATION UPGRADE	Address transmission and distribution requirement based on potential retirement of solid fuel units at Municipal Power Plant	1,244,250.84	On hold pending disposition of fossil fuel generation at Municipal power plant.
E0153	REPL CIRCUIT BREAKERS	Replace old technology circuit breakers on 69kV and 161kV lines at all substations	281,528.97	Circuit breakers being replaced as time allows and opportunity dictates
E0175	LANDFILL GENERATOR UNIT 4	Install last generator in space available at Landfill Gas Generation site	1,328,806.92	Generator ordered with expected delivery and installation 1st qtr 2024
E0179	COLLEGE UNDERGROUND UNIV TO BOUCH	Underground section of College Avenue	67,627.76	This project is complete. Staff will work with Finance to return remaining funds back to their original funding
E0194	SUBSTATION UPGRADE GSTN PERCHER	Upgrades required inside substations for new transmission lines at Grindstone and Perche	959,837.75	Project set for public hearing in August. Will replace non-functional circui switchers with circuit breakers and reconfigure the 161kV bus.
E0198	UNDERGROUND DIST N TRANS PATH	Underground distribution lines in conjunction with the transmission project E0148	95,568.50	Project on hold pending City Council decision on transmission expansion.
E0201	RECONFIG SUBSTATION FEEDER	Install new feeders from the new Mill Creek substation to off load other substations	635,145.09	Project on hold pending City Council decision on transmission expansion.
E0204	MOORE'S LAKE RESTORATION	Restoration of More's Lake at the Municipal Power Plant	5,569.34	Shelter Complete, Island bridge delivered and onsite waiting for concrete piers to set, Discussions with Conservation Dept to stock lake
TOTAL			11,511,920.76	