Agency	S	TORMWATER						
Overland has Front								
Budget by Fund								
		2018 Actual	2019 Adopted	2020 C2C		2020 Request		\$ Change
General		-	-	-		-		-
Other-Expenditures		13,376,023	 14,985,183	 15,069,945	_	17,342,331	_	2,357,148
TOTAL	\$	13,376,023	\$ 14,985,183	\$ 15,069,945	\$	17,342,331	\$	2,357,148
Budget by Service								
		2018 Actual	2019 Adopted	2020 C2C		2020 Request		\$ Change
STORMWATER ENGINEERING AND AD		8,833,709	10,452,446	10,568,937		12,807,128		2,354,682
STORMWATER OPERATIONS		4,542,314	4,532,737	4,501,008		4,535,203		2,466
TOTAL	\$	13,376,023	\$ 14,985,183	\$ 15,069,945	\$	17,342,331	\$	2,357,148
Budget by Major								
		2018 Actual	2019 Adopted	2020 C2C		2020 Request		\$ Change
Personnel		4,671,574	4,881,487	5,039,030		5,082,055		200,568
Non-Personnel		7,996,131	9,100,006	9,109,861		11,289,250		2,189,244
Agency Billings		708,318	 1,003,690	921,054		971,026		(32,664
TOTAL	Ś	13,376,023	\$ 14,985,183	\$ 15,069,945	\$	17,342,331	Ś	2,357,148



Department of Public Works

Engineering Division

Robert F. Phillips, P.E., City Engineer

City-County Building, Room 115 210 Martin Luther King, Jr. Boulevard Madison, Wisconsin 53703 Phone: (608) 266-4751 Fax: (608) 264-9275 engineering@cityofmadison.com

www.citvofmadison.com/engineering

Assistant City Engineer

Gregory T. Fries, P.E. Kathleen M. Cryan

Principal Engineer 2

Christopher J. Petykowski, P.E. John S. Fahrney, P.E.

Principal Engineer 1

Christina M. Bachmann, P.E. Mark D. Moder, P.E. Janet Schmidt, P.E.

Facilities & Sustainability

Jeanne E. Hoffman, Manager Bryan Cooper, Principal Architect

Mapping Section Manager Eric T. Pederson, P.S.

Financial Manager

Steven B. Danner-Rivers

July 10, 2019

To: Dave Schmiedicke, Finance Director

From: Robert F. Phillips, City Engineer

Subject: Engineering Division's 2020 Sewer Utility Budget

The Engineering Division is pleased to submit our 2020 Operating Budget for the Sewer Utility, a utility funded entirely through user fees.

The primary objective of the City of Madison's Sewer Utility is to safely convey wastewater to the Nine Springs Wastewater Treatment Plant. This requires a combination of design, construction and maintenance of our system of sewers and lift stations. Through our activities, infiltration is reduced, pipes in poor condition are repaired or replaced, pipes are cleaned on a regular schedule and problematic sections of pipes are maintained more frequently. The result has been a reliable system with a record low number of sewer backups.

In addition to the routine activities associated with running the Sewer Utility, specific 2020 initiatives include; infiltration studies for sewer drainage areas that have a history of excessive clear water in the system during severe rain events, televising and rating sewers on a 10 year cycle in accordance with our Capacity, Management, Operation, and Maintenance (CMOM) plan, and the continuation of our sewer lining program as a cost effective rehabilitation method for sanitary sewer.

The Sewer Utility Budget includes the following supplemental requests in order of preference:

- 1. Add CAD/GIS Consulting Funding for Mapping (\$34,002 Sewer Utility operating budget; additional funding included in Engineering – Engineering and Admin and Storm Water Utility operating budgets) – Provide funds to contract for outside expertise to maximize automation of conversion from CAD to GIS. This would eliminate redundant manual work while making records available more quickly as needed for asset and work order management.
- 2. Add 1.0 FTE Utility Design/Field Engineer (0.28 FTE \$20,994 Sewer Utility operating budget; 0.72 FTE \$53,986 Sewer Utility capital budget) - Provide additional engineer who would split their time between design and field inspection work. This would enable the Division to generate plans and specifications to better meet project schedules and balance project schedules out over the entire construction season. By supplementing existing construction inspection staff during the peak construction season these engineers would lower the number of projects each employee is responsible for, reducing windshield time and increasing time actually spent on-the job inspecting. This will result in better quality control and long-term savings to our taxpayers.
- 3. Add 1.0 FTE Utility/Trenchless Engineer (0.15 FTE \$11,247 Sewer Utility operating budget; 0.45 FTE \$33,741 Sewer Utility capital budget; 0.4 FTE included in Engineering – Engineering and Admin operating budget and offset by increased permit fee revenue) - This position would focus on trenchless rehabilitation of aging infrastructure and enable the utility to continue working towards eliminating our infrastructure deficit.

A Sewer Utility rate increase of approximately 7% is expected. If you have any questions, please feel free to contact Steve Danner-Rivers or myself.

July 11, 2019 Page 2

Sincerely,

Robert F. Phillips, P.E. City Engineer

RFP:

Travis Martin cc:

7/11/2019-Sewer Utility 2020.doc

2020 Operating Budget

Service Budget Proposal

IDENTIFYING INFORMATION

SELECT YOUR AGENCY:

Stormwater Utility

SELECT YOUR AGENCY'S SERVICE:

Stormwater Engineering and Administration

SERVICE NUMBER:

841

SERVICE DESCRIPTION:

The Stormwater Utility provides services for design, review, construction, and maintenance of a storm system including storm sewer pipe, open channel systems and ponds which are responsible for reducing flooding, improving the water quality of the lakes and waterways, and complying with the Wisconsin Pollutant Discharge Elimination System (WPDES) discharge permit. The goals of the agency include reducing the total suspended solids (TSS) and total phosphorous (TP) within the City's stormwater runoff by working with neighboring municipalities, regulatory agencies, and public watershed organizations.

Part 1: Base Budget Proposal

BUDGET INFORMATION

		2017 Actual	2018 Adopted	2018 Actual	2019 Adopted	2020 C2C	2020 Request
Виа	lget by Fund	•		-			
	General-Net	\$0	\$0	\$0	\$0	\$0	\$0
	Other-Expenditures	\$8,516,838	\$10,960,636	\$8,955,993	\$10,469,575	\$10,559,837	\$12,807,128
Tota	I	\$8,516,838	\$10,960,636	\$8,955,993	\$10,469,575	\$10,559,837	\$12,807,128
Виа	lget by Major						
	Revenue						
	Personnel	\$1,777,479	\$2,077,284	\$1,744,641	\$2,127,451	\$2,268,328	\$2,244,722
	Non-Personnel	\$6,589,169	\$8,708,509	\$7,048,346	\$8,119,387	\$8,103,013	\$10,149,395
	Agency Billings	\$150,189	\$174,843	\$163,007	\$222,737	\$188,496	\$413,011
Tota	al	\$8,516,837	\$10,960,636	\$8,955,994	\$10,469,575	\$10,559,837	\$12,807,128
	FTEs		17.48		17.64	18.75	18.76

PRIORITY

Citywide Element

Effective Government

Describe how this service advances the Citywide Element:

Effective Government - The Stormwater Utility provides efficient and reliable service that supports all residents and business. We are a member of the Madison Area Stormwater Partnership (MAMSWaP). This group comprised of 21 central Dane County municipalities, Dane County, and UW-Madison, works together to promote practices that reduce and improve stormwater runoff into Dane County lakes, rivers, and streams.

Green & Resilient - The Stormwater Utility is a leader in stewardship of our water resources. We have a adopted a watershed management strategy in which green infrastructure plays an integral role in our flood mitigation and resiliency efforts while improving water quality.

ACTIVITIES PERFORMED BY THIS SERVICE

Activity	% of Effort	Description
Utility Management and Administration	20	Plan, direct and implement stormwater infrastructure design, construction, operations and maintenance. Provide technical engineering advice and recommendations to City officials. Oversee Utility personnel, budgeting, financial management, asset management, permitting, public information and communiity engagement, interdepartmental planning and coordination, Board and Commission support and related administrative and technical activities.

Flood Mitigation & Resiliency	40		Watershed study management including data collection modeling, development and prioritization of engineerin solutions. Green infrastructure research, design and management. Public information and community engagement to develop community resiliency.
Design - Reconstruction	10		Planning, design and project management for replacement or rehabilitation of aging storm sewer infrastructure.
Construction Inspection	20		Manage storm sewer construction of Public Works projects to assure construction complies with plans and specifications. Oversee day-to-day construction activities from pre-bid meeting to warranty closeout. Review and respond to RFIs and change order requests. Track quantities and authorize partial and final payments. Prepare as-builts. Perform preliminary surveys, construction staking, and as-built surveys.
GIS	10		Create and maintain stormwater infrastructure assets (e.g. pipes, structures, specialized treatment devices, greenways, ponds, bioretention, rain gardnes, pump stations, etc.) in GIS for asset and work order management. Create and maintain impervious layer for billing and modeling.
What is the proposed change to the ser What are the service level impacts of the No anticipated service level impacts. Personnel-Permanent Positions Are you proposing an allocation change Perm Wages Benefits	ne proposed fundin	g changes?	to agency request? \$2,247,291 Description
Total Explain the assumptions behind the allowed by the street of the second control of			
Personnel-Other Personnel Spending Are you requesting additional personne		-annualized pay?	No
Type Overtime Premium Pay Hourly Total Explain the assumptions behind the rec	Fund quested funding.	Amount \$0	Description
What is the justification behind the inc	reased funding?		

	Yes	o the service's budge		
A			Jacks d	
Are you prop	Increase of	or a decrease to the bud	igeted revenue?	
	Fund	Major	Amount	Description
	2120	4xxxx	\$1,954,735	·
				increase in editorner nevenue
Explain the a	assumptions behind	d the change to budget	ed revenue.	
Based primar	ily on increased incre	eased debt service and co	st of flooding related s	tudies
What is the j	justification behind	the proposed change?		
Need to incre	ase revenue to cover	projected expenses.		
n Dorsonnol				
n-Personnel	lesting additional n	on-personnel funding f	for this service?	
Are you requ	Yes	ion-personner randing i	or this service:	
	Fund	Major	Amount	Description
	2120	53xxx	\$117,990	Primarily increases to Machinery & Equipment, Work Supplies, Postage & Copy Printing
	2120	54xxx	\$885,935	Primarily Special Assessments and Consulting Services
	2120	56xxx	\$1,140,857	Debt Principal and Interest
	2120	57xxx	\$224,515	Correction of Cost Allocation Plan expenses to Service 841 instead of 842
	2120	59xxx	(\$107,500)	Transfer Out to Capital Projects
Explain the a	ssumptions behind	I the requested funding	Ţ.	
Supplies: Mor	•	s than 2019; updated pro	jection for work suppli	es based on recent experience; increase to Postage & Copy Printing due to flood st
What is the j	ustification behind	the proposed change?		
These change	s were made due to	updated cost estimates ar	nd recent experience to	o arrive at a better budget projection.
2: Scaling Se	rvice Delivery			
What amou	nt is 2.5% of the s	ervice expenditure b	udget?	
ease				
cusc				
	you would chang	ge the service activitie	es and the level of s	service as a result of implementing a 2.5% funding increase to this se

In

- Watershed/Green Infrastructure Engineer (\$22,494 represents Stormwater Utility operating budget impact)- As a result of our flood response, associated watershed studies amd recent switch to ArcGIS we require a new position to perfrom GIS/data management duties associated with watershed studies; calibrate and maintain rainfall and flow gauges associated with watershed studies; and create, implement and manage a rain garden advocacy program to encourage residents to create rain gardens on private property. This program would be partially funded by grants provide by the Stormwater Utility.
- Design Engineer (\$22,494 represents Stormwater Utility operating budget impact) We have reassigned existing staff to assist complete flood response projects and manage watershed studies. This has put a strain on our ability to meet design timelines for storm sewer replacement and upgrades associated with street reconstruction and resurfacing projects. This position would be dedicated to the design of storm sewer associated with reconstruction and resurfacing projects.
- Utility Design/Field Engineers (\$20,994 represents Stormwater Utility operating budget impact) Provide additional engineers who would split their time between design and field inspection work. This would enable the Division to generate plans and specifications to better meet project schedules and balance project schedules out over the entire construction season. By supplementing existing construction inspection staff during the peak construction season these engineers would lower the number of projects each employee is responsible for, reducing windshield time and increasing time actually spent on-the job inspecting. This will result in better quality control and long-term savings to our taxpayers.

Design Engineer: Permanent Salary & Fringe Benefit Increase Utility Design Engineer: Permanent Salary & Fringe Benefit Increase CAD/GIS Consulting: Purchased Services Increase Would the changes include an increase to permanent staffing levels for this service? Yes If yes, FTEs: 0.88 What impacts would City residents and visitors experience if this service is provided a 2.5% increase in funding? Watershed/Green Infrastructure Engineer - Increased flood mitigation and resiliency. Expansion of green infrastructure. Grant program for installation of rain garde private property. Design Engineer - Timley replacement and rehabilitation of aging infrastructure. Design Engineer - More pro-active and addressing issues before they become problems; faster response to questions and concerns; better project coordination private utilities; better quality control and long-term savings to rate payers. Add CAD/GIS Consulting Services - GIS is the asset registry that we use to manage our infrastructure assets and the work required to maintain them. The more seamlessly that const assets are incorporated into our GIS, the more quickly Public Works Operations teams know of their existence and can proactively perform required maintenance activities such as m trimming, snow removal, sewer cleaning, etc. ITease Explain how you would change the service activities and the level of service as a result of implementing a 2.5% funding decrease to this Set N/A Explain the changes by major expenditure category that your agency would implement as a result of a 2.5 % funding decrease to this Set N/A Would the changes include a decrease to permanent staffing levels for this service?	Explain the changes by major expenditure category that your agency would impleme	nt as a resu	ult of a 2.5 % funding incr	ease to this service
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2020 Operating Budget

Service Budget Proposal

IDENTIFYING INFORMATION

SELECT YOUR AGENCY:
Stormwater Utility

SELECT YOUR AGENCY'S SERVICE:
Stormwater Operations

SERVICE NUMBER:

SERVICE DESCRIPTION:

842

This service is responsible for the operation and maintenance of Stormwater Utility system infrastructure of storm sewer system including 500+ miles of pipe, 40,000+ structures and 1,300+ acres of stormwater management lands. The goal of the service is to maintain, repair, rehabilitate, and construct stormwater system infrastructure to reduce flooding while improving the water quality of our lakes and waterways.

Part 1: Base Budget Proposal

BUDGET INFORMATION

		2017 Actual	2018 Adopted	2018 Actual	2019 Adopted	2020 C2C	2020 Request
Bud	get by Fund	•					
	General-Net	\$0	\$0	\$0	\$0	\$0	\$0
	Other-Expenditures	\$5,648,471	\$5,737,349	\$6,528,101	\$6,877,664	\$6,761,173	\$6,828,862
Tota		\$5,648,471	\$5,737,349	\$6,528,101	\$6,877,664	\$6,761,173	\$6,828,862
Bud	get by Major						
	Revenue						
	Personnel	\$3,828,444	\$4,225,525	\$4,357,445	\$4,517,257	\$4,473,534	\$4,542,809
	Non-Personnel	\$989,207	\$547,608	\$1,183,758	\$1,131,718	\$1,131,718	\$1,304,675
	Agency Billings	\$830,820	\$964,216	\$986,898	\$1,228,689	\$1,155,921	\$981,378
Tota	ıl	\$5,648,471	\$5,737,349	\$6,528,101	\$6,877,664	\$6,761,173	\$6,828,862
	FTEs		49.35		51.81	51.74	50.30

PRIORITY

Citywide Element Green and Resilient

Describe how this service advances the Citywide Element:

- Reduce total suspended solids (TSS) and phosphorus in the City's stormwater runoff prior to discharge to our surface waters.
- Control growth and proliferation of invasive species and noxious weeds.
- Provide habitat for ground nesting birds and pollinators.

ACTIVITIES PERFORMED BY THIS SERVICE

Activity	% of Effort	Description
Storm Sewer Cleaning	10	Scheduled pipe and structure cleaning to maintain existing system capacity and prevent sediment from reaching surface waters.
Emergency Response	7	Respond to reports of flooding, spills, missing covers, plugged inlets. Stock sandbag sites.
New Construction, Upgrades and Retrofits	7	Construct new stormwater infrastructure to address local drainage issues. Upgrade and retroift existing infrastructure with BMPs to improve water quality. Survey - preliminary, construction staking and as-built.

Storm Sewer Repair	7		Pipe and structure repair to maintain existing system functionality and extend useful life.
Utility Locating and Marking	5		Respond to Diggers Hotline requests to locate and mar
			underground stromwater utilities to prevent damage during excavation.
Greenway & Pond Maintenance and Repair	4		Vegetation maintenance - scheduled and spot mowing,
			tree removal. Small scale dredging. Cunetee cleaning as repair. Post-storm debris removal. Snow removal.
Inspection and Condition Assessment	3		Internal pipe and structure CCTV inspection and
			condition assessment. Dry weather inspections to identify illicit discharges. Pond depth surveys to determine sediment level and program dredging.
Street Sweeping & Leaf Collection	56		The Stormwater Utility funds 100% of street sweeping
			and 50% of leaf collection activities which are performe by the Streets Division.
SERVICE BUDGET CHANGES			
ervice Impact What is the proposed change to the se	ervice's budget from	cost to continue to	p agency request? \$67,689
What are the service level impacts of t	he proposed fundin	ng changes?	
Personnel-Permanent Positions			
Are you proposing an allocation chang	e to the FTEs for thi	s service? No	
Туре	Fund	Amount	Description
Perm Wages	rana	Amount	Description
Benefits			
Total			
Explain the assumptions behind the all	location change.		
What is the justification behind the all	ocation change?		
,			
Personnel-Other Personnel Spending			
Are you requesting additional personn	el spending for non	-annualized pay?	No
<i>Type</i> Overtime	Fund	Amount	Description
Premium Pay			
Hourly			
Hourly <i>Total</i>		\$0	
	quested funding.	\$0	
Total	equested funding.	\$0	
Total		\$0	

Are you proposing an increase ===			
Are you proposing an increase or a	a decrease to the bud	geted revenue?	
Increase			
Fund	Major	Amount	Description
2120	4xxxx	\$351,145	Increase to Customer Revenue
Explain the assumptions behind t	he change to budgete	ed revenue.	
Increase to Customer Revenue to co	ver anticipated increase	es in flood mitigation re	elated expenses (USGS Study & modeling software).
	·		
What is the justification behind th	ne proposed change?		
Need to increase revenue to cover pr	rojected expenses.		
Personnel			
Are you requesting additional nor	n-personnel funding f	or this service?	
Yes			
Fund	Major	Amount	Description
2120	53xxx	\$10,280	Primarily increase to work supplies
2120	E Avons	\$162.677	
2120	54xxx	\$162,677	Primarily increase for USGS rain monitoring study
2120	57xxx	(\$174,543)	
			Correction of Cost Allocation Plan expenses to Service 841 instead of 842
Explain the assumptions behind the	he requested funding		
Recent historical cost trends and exis	sting agreements with L	JSGS	
What is the justification behind th	ne proposed change?		
·		nd recent experience to	o arrive at a better budget projection.
·		nd recent experience to	o arrive at a better budget projection.
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·		nd recent experience to	o arrive at a better budget projection.
These changes were made due to up	dated cost estimates ar		o arrive at a better budget projection.
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Would the changes include a decrease to permanent staffing levels for this service?	No	If yes, FTEs:
What impacts would City residents and visitors experience if this service is provided	a 2.5% decrease in	funding?
	<u> </u>	
None		

v. 6-28-2019