

Engineering

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ENGINEERING DEPARTMENT

Budget Highlights	FY 2018 Actual	FY 2019 Budget	FY 2020 Requested	% Change From FY 2019 Budget
<u>Expenses</u>				
Employee Expense	2,860,608	2,971,268	2,970,550	— %
Supplies and Services	1,143,153	1,385,295	1,504,928	8.6 %
Machinery and Equipment	393,721	509,967	566,194	11.0 %
Payment to Construction Fund	—	1,525,000	1,210,000	(20.7)%
Less Recharges to Service Funds	(1,683,777)	(1,716,829)	(1,619,636)	(5.7)%
Administrative Overhead Charges	470,674	469,385	527,544	12.4 %
Total Expenses	3,184,379	5,144,086	5,159,580	0.3 %
<u>Resources</u>				
Operating Revenue - General	202,527	73,521	145,691	98.2 %
Lease Expense Reimbursement	93,874	101,066	94,596	(6.4)%
Administrative OH Recharges	426,265	411,666	390,986	(5.0)%
Road Use Tax Funds	247,039	437,855	499,494	14.1 %
Utility Charges - Stormwater	1,684,783	3,037,664	2,914,854	(4.0)%
Utility Charges - Sanitary	190,435	234,473	280,899	19.8 %
Total Resources	2,844,923	4,296,245	4,326,520	0.7 %
<u>Debt Service</u>				
Stormwater debt abated with Stormwater User Fees	3,594,481	1,997,081	2,161,259	8.2 %
Stormwater debt abated with Sales Tax Increment	2,118,792	2,562,211	2,562,323	— %
Street Projects Debt abated with Sales Tax Fund (30%)/RUT	252,884	251,912	246,836	(2.0)%
America's River Debt Abated with TIF & General	884,893	887,927	883,286	(0.5)%
Total Debt Service	6,851,050	5,699,131	5,853,704	2.7 %
Property Tax Support	339,456	847,841	833,060	(14,781)
Percent Increase/(Decrease)				(1.7)%
Personnel - Authorized FTE	29.29	30.23	29.96	

STORMWATER UTILITY

Budget Highlights	FY 2018 Actual	FY 2019 Budget	FY 2020 Requested	% Change From FY 2019 Budget
<u>Expenses</u>				
Employee Expense	400,564	762,803	771,077	1.1 %
Supplies and Services	711,895	729,032	813,491	11.6 %
Payment to Construction Fund	—	1,525,000	1,210,000	(20.7)%
Less Recharges to Service Funds	—	(586,867)	(552,757)	(5.8)%
Machinery and Equipment	101,650	51,650	75,186	45.6 %
Administrative Overhead Recharge	470,674	469,385	527,544	12.4 %
Park Stormwater Maintenance Charges	123,712	145,928	202,644	38.9 %
Public Information Office	—	86,661	70,313	(18.9)%
Public Works Stormwater Maintenance Charges	282,840	241,698	258,342	6.9 %
Debt Service	<u>5,713,273</u>	<u>4,559,292</u>	<u>4,723,582</u>	3.6 %
Total Expenses	<u>7,804,608</u>	<u>7,984,582</u>	<u>8,099,422</u>	1.4 %
<u>Resources</u>				
Operating Revenue	6,559,079	5,426,723	5,544,639	2.2 %
Sales Tax Increment	2,118,792	2,562,211	2,562,323	— %
Total Resources	<u>8,677,871</u>	<u>7,988,934</u>	<u>8,106,962</u>	1.5 %
Net Operating Surplus (Deficit)	873,263	4,352	7,540	3,188
Personnel - Authorized FTE	7.35	5.85	5.70	
Stormwater User Fee Rate Increase	6.75%	6.74%	6.83%	
Stormwater User Fee (per SFU)	\$ 7.27	\$ 7.76	\$ 8.29	
Revenue 1% Rate Increase Generates			\$ 45,093	

Improvement Package Summary

Stormwater Fund

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This decision package would provide for National Association of Sewer Service Companies (NASSCO) Certification for the part-time Infiltration & Inflow Inspector position that was approved in FY 2019. This 30 hour per week Infiltration and Inflow Inspector is responsible for performing administrative and technical work in identifying potential illegal discharges into the sanitary sewer system. This funding would allow the new I&I inspector to improve their skills and knowledge related sewer pipeline, manhole, and lateral certification to correctly review and determine faults in the sanitary sewer system from CCTV reports and visual inspections. NASSCO is the leader in establishing rehabilitative and inspection methods for underground utilities. The training would better prepare the I&I inspectors for work on the Consent Decree and for future analysis of the sewer sheds beyond the Consent Decree. This improvement supports the City Council Goal of Vibrant Community: Healthy and Safe by giving the I&I Inspector the knowledge to perform inspections that ensure the health & safety of the community as it relates to the sanitary sewer system and thus adhering to the guidelines of the Consent Decree.

Related Cost:	\$1,950	Stormwater User Fee Recurring	Recommend - Yes
Stormwater User Fee Impact	<u>0.04%</u>		
Activity: Stormwater			

Sanitary Fund

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This decision package would provide for the addition of a full-time water resource engineer (GE-38). The primary role of this position would be to lead the City's management of its sanitary sewer gravity collection system. Work on the collection system includes overseeing a Consent Decree with the United States Department of Justice and Environmental Protection Agency, inflow and infiltration (I&I) source identification and subsequent development of elimination strategies, semi-annual reporting to the EPA on I&I reduction efforts, Fats, Oils & Grease (FOG) inspection coordination, capital repair project management and other general management responsibilities for the City's 281 miles of gravity sanitary sewer. This position would also perform primary oversight and engineering technical review duties of proposed sanitary sewer and stormwater systems as part of the City's Development Review Team, which is responsible for reviewing all new development site plans. The Water Resources Engineer collaborates with the Budget Director, Water & Resources Recovery Center Manager, Public Works Director and City Engineer to lead the management of the City's sanitary sewer utility capital and operations and maintenance budgets along with providing technical assistance to the City's Water & Resource Recovery Center (wastewater plant) as it relates to force main and lift station performance assessment, future maintenance needs and capital improvements. The addition of this position supports the City Council Goal of Financially Responsible, High-Performance City Organization that is Sustainable, Equitable with Effective Service Delivery because it will provide one person with the primary duties of being fully committed to oversee the sanitary utility fund, services, requirements and programs for all residents.

Related Cost:	\$81,112	Sanitary User Fees	Recurring	Recommend - No
Related Cost:	\$26,653	Stormwater User Fees	Recurring	
Related Cost:	\$3,800	Sanitary User Fees	Non-Recurring	
Total Cost:	<u>\$111,565</u>			
Sanitary User Fee Impact	0.83%			
Stormwater User Fee Impact	0.08%			
Activity: Sanitary/Stormwater Maintenance				

General Fund

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This decision package would provide for the addition of a full-time camera systems technician (GE-28). Maintenance of the existing system is overwhelming field staff constantly and additional help is needed to fulfill new camera requests while also providing assistance to the maintenance and upgrading of existing systems. The addition of a Camera Systems Technician would significantly reduce camera downtime, and improve the reliability and functionality of the citywide traffic camera surveillance system. This position would be utilized to shorten camera repair response time, while at the same time reduce ongoing installation and maintenance costs associated with outsourcing these services to commercial vendors. Currently many of the City's cameras and associated networking equipment are out of service on a regular basis. The lack of available city staff to respond to service requests leads to a delay in restoration of services, sometimes taking weeks at a time to restore equipment. The City of Dubuque's camera surveillance system is heavily leveraged by many departments and has become a key component of the City's public safety infrastructure. The system is used daily for several observational tasks including dispatcher reference, vehicle accident investigations, traffic flow improvement operations, drug task force investigations, construction project inspection, construction contractor claims investigation, emergency management storm event tracking, parking division monitoring and various other types of criminal investigations.

The Camera Systems Technician would provide the following services to the department:

1. Configure, install and test low voltage communications.
2. Install and configure IP equipment in the field and in the Traffic Operations Center. This includes items such as cameras, network equipment, vehicle detection sensors, street lighting controllers, and other camera and vehicle transportation control system equipment.
3. Install and maintain automated control systems operation for enhanced traffic flow, including, but not limited to: radio, cellular, fiber, and ethernet communications systems, programmable logic controller hardware and software maintenance.
4. Knowledge and hands on experience of surge protection including proper grounding and bonding techniques to provide greater protection to City infrastructure from lightning strikes.
5. Application of the NEC, NEMA and MUTCD standards to the traffic camera surveillance system.
6. Knowledge and experience in servicing fiber optic communication systems.
7. Electrical schematic and construction plan reading.
8. Construction inspection related to traffic camera surveillance systems.

This improvement package supports the City Council Goal of Financially Responsible City Government and High Performance City Organization and Partnership for a Better Dubuque, and Connected Community. It also aides in the Management Agenda High Priority of Community Security /Surveillance System Expansion because it will allow new camera placements at a quicker rate, higher quality data provided with timely equipment upgrades, and an additional staff member to aide in all aspects of camera maintenance.

Related Cost:	\$ 65,636	Tax Funds	Recurring	Recommend - No
Related Cost:	\$ 10,300	Tax Funds	Non- Recurring	
Total Cost:	<u><u>\$ 75,936</u></u>			
Property Tax Impact:	\$ 0.0299	0.29%		
Activity: Traffic Operations				

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This decision package would provide for the addition of a part-time Confidential Account Clerk position (0.625 FTE or 1,300 hours annually). This new position would assist the Traffic/Civil Engineers and Right of Way Management Technician with administrative paperwork responsibilities, allowing them to concentrate more on the technical engineering functions related to the design, construction and management of public infrastructure projects and spend more time working in the field with contractors.

The Engineering Department is experiencing significant growth in two service sectors – issuing Right of Way Work Permits and Fiber Optic/Small Cell lease agreements. In regard to right of way work permits our department processes approximately 500 per year which is solely handled by two engineering technicians. After conducting a process mapping effort this past year it has become clear that our two staff members spend a significant amount of time traveling between worksites and city hall in order to process permit paperwork. By having an administrative staff to manage “intake” paperwork for each permit our inspectors will be able dedicate more time to ensuring contractors and utility companies meet city construction standards and can better enforce temporary traffic control signage requirements to improve safety for all users of the city street right of way. This past year we had difficulties making sure contractors maintained proper safety controls due to lack of available time to visit job sites multiple times. We expect this condition to continue in the future without additional resources.

Significant growth in the local expansion of fiber optic and small cell service providers has created a significant new work load. Coordinating installation of new below ground fiber optic cables is one of the most intensive work efforts within our department. There are often many conflicts with other utilities and city infrastructure that need to be resolved before a permit to start work can be issued. Additionally, the city often leverages our existing conduit capacity by trading our own extra capacity for new conduit or fiber optic cables into unserved areas. Before any work can happen, a lease agreement must be approved which involves significant effort and coordination among several departments. The expected rapid

expansion of small cell sites is also anticipated to grow to more than 200 agreements over the next 5 years. Each location will require the same amount of effort to manage as a traditional land lease. The Engineering Department currently manages 50 lease agreements and has no capacity to take on a workload that would double or triple the amount of managed agreements. The addition of this position would aide in the attainment of the goal of Financially Responsible, High-Performance City Organization: Sustainable, Equitable, and Effective Service Delivery by allowing field staff to reach more citizens in a timely manner while ensuring all paperwork is being carried out effectively back at the office.

Related Cost:	\$ 28,219	Tax Funds	Recurring	Recommend - No
Related Cost:	\$ 2,650	Tax Funds	Non-Recurring	
Total Cost:	<u>\$ 30,869</u>			
Property Tax Impact:	\$ 0.0121	0.12%		
Activity: Administration				

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This improvement package would provide the funding for additional overtime related to general fund inspection activities in the department. Currently the Engineering Department is responsible for inspection of sidewalks, ADA ramps, utility permits, dumpster permits, work in right of way permits, and other assigned inspection duties not assigned to a specific project. Due to the sheer volume of requests and staff time required to adequately review these requests, overtime is required. Engineering has not budgeted for this overtime cost in years past. The positive impact on the community is that inspection occurs in a timely fashion and minimizes the potential for improvements to be installed incorrectly and at greater cost. This improvement request supports the City Council goals and priorities of Financially Responsible, High Performance City Organization and Connected Community: Equitable Transportation, Technology Infrastructure, and Mobility.

Related Cost:	\$ 13,140	Tax Funds	Recurring	Recommend - Yes
Property Tax Impact:	<u>\$ 0.0052</u>	0.05%		
Activity: Project Engineering				

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This improvement package would provide the funding for 8 tablets for field staff. The purchase and utilization of tablets would increase work productivity and improve response time to citizen service requests. The nature of communication methodologies in the field of civil engineering has rapidly evolved over the past several years. Increased demands for projects to be delivered on tighter schedules have pushed the industry to adopt leading edge web based and mobile technologies. Examples of leveraging technology to accelerate project delivery and increase staff productivity includes use of GIS for live field access to existing infrastructure and utility data, electronic plans distributed in pdf file format, email correspondence to issue construction directives and receive WebQA maintenance requests, all electronic issuance of permits, integrated photo & email use to distribute field information and repair requests, construction project websites for file hosting, and use of CADD design files by contractors, live access to the department's web based aerial drone photos and construction cameras and one time data entry into spreadsheets for quantity payment calculations. Improvements to mobile technology and computing now offer the potential for significant productivity gains in the daily activities for field staff in this office. Additionally, being able to work in a paperless environment results in staff having readily access to significant amounts of technical information that was formerly stored in a paper file or computer workstation and that could only be viewed by driving back to city hall. This old world work flow leads to many documents being unnecessarily printed in order to prepare for meetings or construction site visits. An additional benefit of having remote access to technical documents will allow field staff to remain at project sites while retrieving electronically archived data, this increases the time spent overseeing contractors and improves quality control. This request supports the City of Dubuque goal of being Financially Responsible, High-Performance City Organization: Sustainable, Equitable, and Effective Service Delivery.

Related Cost:	\$ 4,200	Tax Funds	Non-Recurring	Recommend - Yes
Related Cost:	\$ 1,050	Stormwater User Fees	Non-Recurring	
Related Cost:	\$ 3,150	Sanitary User Fees	Non-Recurring	
Related Cost:	\$ 1,920	Tax Funds	Recurring	
Related Cost:	\$ 480	Stormwater User Fees	Recurring	
Related Cost:	\$ 1,440	Sanitary User Fees	Recurring	
Total Cost:	<u>\$ 12,240</u>			
Property Tax Impact:	\$ 0.0024	0.02%		
Stormwater User Fee Impact:		0.03%		
Sanitary User Fee Impact:		0.04%		
Activity: Project Engineering				

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This decision package is for the purchase of five fireproof file cabinets. The Engineering Department survey documents storage file cabinets are located on third floor of city hall. There are 10, 4-drawer file cabinets used to store the original recorded copies of all city deeds and easements documents. Also stored are the original abstracts for any city owned properties. It is typically recommended that these types of documents, deeds, easements, and abstracts, be stored in a fireproof safe. Some documents are over 100 years old and only documents generated in the last 10-15 years have been scanned. Many documents are single copy and irreplaceable. The estimated replacement value of these documents is over \$1,000,000.

In order to make this request more affordable, the Engineering Department would submit another improvement request in FY 2021 to replace the remaining 5 cabinets. This improvement supports the City Council goal of Financially Responsible, High-Performance City Organization: Sustainable, Equitable, and Effective Service Delivery.

Related Cost:	\$ 8,600	Tax Funds	Non-Recurring	Recommend - Yes
Property Tax Impact:	<u>\$ 0.0034</u>	0.03%		
Activity: Engineering Administration				

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This decision package is for phase two of the Engineering Department storage area Improvements. The Engineering Department is allocated approximately 1,200 square feet of storage space in the basement of City Hall. This area is unfinished with poor lighting, deteriorated concrete floors and bricks walls that are slowly crumbling. The area is used by the Engineering Department for Capital Improvement Project record keeping as well as tool and equipment storage. The area is very dusty and has high humidity levels which are not good for long term storage of documents. In FY 2019, an improvement package was funded for \$6,800 for initial improvements of the storage area. This improvement would fund additional renovation of this space by allowing rough finished gypsum walls and additional lighting to be installed along with repairs to the floor.

This improvement supports the Five Year Organizational Goal of Financially Responsible, High-Performance City Organization: Sustainable, Equitable, and Effective Service Delivery.

Related Cost:	\$ 6,800	Tax Funds	Non-Recurring	Recommend - Yes
Property Tax Impact:	<u>\$ 0.0027</u>	0.03%		
Activity: Engineering Administration				

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This decision package is for the purchase of uniform shirts for the Engineering Department supervisory and other staff involved with public engagement. These shirts would help identify an Engineering Department employee to the public when participating in a city sponsored public event such as an open house or formal meeting for a capital project, conferences, site walks and tours, along with City Expo. The uniform shirts would be distributed to key staff members and include the Dubuque logo, the All America City logo, and designation that the staff member is with the Engineering Department. This decision package would provide 1 to 2 shirts per staff member. The staff member would be able to purchase additional uniform shirts at their own cost if desired. The Engineering Department purchased some shirts several years ago and they were a very effective way to identify our presence at events attended by the public. This improvement supports the goal of Financially Responsible, High-Performance City Organization: Sustainable, Equitable, and Effective Service Delivery by allowing City employees to be easily distinguished and recognizable in social situations where identification is helpful for communication and interaction with citizens.

Related Cost:	\$ 400	Tax Funds	Recurring	Recommend - Yes
Property Tax Impact:	\$ 0.0002	—%		
Activity:	Engineering Administration			

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This decision package is for a limited term seasonal engineering intern position (12 months, 0.25 FTE). Over the past three years, the Engineering and Legal Departments have made significant updates to the City's construction contract specifications that are used by all city departments for capital improvement projects. During the review process, it was determined that a more comprehensive update to the City's current policies and standards related to OSHA compliance and protection of the public during construction projects is needed. This improvement would allow the Engineering Department to update and customize the current Department Construction Safety Manual. The needed updates would address new changes in OSHA regulations such as permit required confined space entry and silica (concrete) dust exposure. Two years ago, the Department was able to complete an approximate 60% update to the manual but due to ongoing high workloads, some important updates have not been completed. This intern position would be solely dedicated to this work and would complete the needed manual updates and subsequently train city staff on safe construction site work practices. This improvement request supports the City Council goal of Financially Responsible, High-Performance City Organization: Sustainable, Equitable, and Effective Service Delivery.

Related Cost:	\$ 9,982	Tax Funds	Non-Recurring	Recommend - Yes
Property Tax Impact:	\$ 0.0039	0.04%		
Activity:	Engineering Administration			

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This decision package is for three desktop computers for Civil Engineer Interns. Currently, interns perform work on "recycled" computers (computers that have reached 4 years of age and has been replaced by a new one within the department). Use of recycled computers has proved to be unreliable. Due to age, the recycled computers either end up with an unsupported version of Windows that will no longer receive software updates or their processor is slow and it will not run newer versions of GIS or AutoCAD software. The Information Services Department has raised concerns that these machines with an unsupported version of Windows pose a security risk to the network. Over the past few years, at least one computer has stopped working in the middle of the summer. Since these computers are not supported, the result is more staff than computers which negatively impacts productivity.

Internal City policy prohibits the use of recycled computers repeatedly for any permanently funded positions. The Engineering Department has had a minimum of 4 interns working each year for the past 10 years. Due to the high priority work regularly assigned to interns it is important that the computers are

reliable. This improvement supports the goal of being Financially Responsible, High-Performance City Organization: Sustainable, Equitable, and Effective Service Delivery through the use of effective tools that ensure timely work done on reliable equipment. These benefits are passed through City staff to the citizens through citizen request response and the increase in general work output.

Related Cost:	\$ 2,400	Tax Funds	Non-Recurring	Recommend - Yes
Related Cost:	\$ 2,400	Sanitary User Fees	Non-Recurring	
Related Cost:	\$ 2,400	Stormwater User Fees	Non-Recurring	
Total Cost:	<u>\$ 7,200</u>			
Property Tax Impact:	\$ 0.0009	0.01%		
Activity: Project Engineering				

Significant Line Items

Employee Expense

1. FY 2020 employee expense reflects a 1.5% wage package increase.
2. The Iowa Public Employee Retirement System (IPERS) City contribution of 9.44% is unchanged from FY 2019. The employee contribution of 6.29% is unchanged from FY 2019.
3. The City portion of health insurance expense is decreased from \$1,193 in FY 2019 to \$921 in FY 2020 per month per contract which results in an annual cost savings of \$79,003 or 22.77%.
4. Overtime is increased from \$59,500 in FY 2019 to \$72,640 in FY 2020. FY 2018 actual was \$50,785.
5. Sick leave payout expense increased from \$819 in FY 2019 to \$11,977 in FY 2020.
6. During FY 2019, the City Council approved a non-recurring flood wall levee engineering intern position. This position will expire June 30, 2019. The elimination of this position in FY 2020 results in -0.25 FTE and a savings of \$9,982.
7. During Fiscal Year 2019, the following personnel changes were approved:
 - a. +1.0 FTE Full-Time Confidential Account Clerk position added (+\$54,102)
 - b. -1.25 FTE Part-Time Confidential Account Clerk positions eliminated (-\$60,404)
 - c. -0.02 FTE Part-Time I&I Inspector position adjusted (-\$1,196)
 - d. Traffic Engineering Assistant (GE33) upgraded to Traffic Engineer (GE35) (+\$8,049)
8. A Traffic Engineering Assistant position was unfrozen effective January 1, 2019 creating an additional \$58,055 in cost in FY 2020.
9. The Fiscal Year 2020 budget includes the following changes in the funding allocation of positions:
 - a. City Engineer
 - i. +0.05 FTE to General Fund (+\$8,537)
 - ii. -0.05 FTE from Internal Service Fund (-\$8,537)
 - b. Assistant Engineer
 - i. +0.05 FTE to General Fund (+\$7,163)
 - ii. -0.05 FTE from Internal Service Fund (-\$7,163)
 - c. Confidential Account Clerk
 - i. +0.05 FTE to General Fund (+\$2,706)
 - ii. -0.05 FTE from Internal Service Fund (-\$2,706)

Supplies & Services

10. Consultant Services decreased from \$117,500 in FY 2019 to \$72,051 in FY 2020. Stormwater Maintenance increased from \$47,000 in FY 2019 to \$52,000 in FY 2020. NPDES consultant services increased from \$0 in FY 2019 to \$3,500 in FY 2020. Stormwater I&I Prevention increased from \$5,000 in FY 2019 to \$6,000 in FY 2020. Stormwater ditch remediation decreased from \$25,000 in FY 2019 to \$0 in FY 2020. Storm Sewer Inspection and Cleaning decreased from \$6,500 in FY 2019 to \$0 in FY 2020. Detention Basin Maintenance decreased from \$29,000 in FY 2019 to \$3,936 in FY 2020. All of these activities are mainly completed by employees, reducing the need for consultant services.
11. Inspection Reimbursement decreased from \$72,000 in FY 2019 to \$36,000 in FY 2020 based on the estimated completion of new subdivisions anticipated in FY 2020.
12. Pay to Other Agency decreased from \$110,675 in FY 2019 to \$67,957 in FY 2020. This line item represents the contract with East Central Iowa Association for transportation planning (\$20,000) and the Catfish Creek Watershed Partnership payment (\$47,957). The procedures for processing the Dubuque County Historical Society lease have changed and now DCHS submits the number of low and moderate income individuals served and does not make a lease payment that is later refunded by the City (-\$43,159).
13. Grant expense increased from \$385,047 in FY 2019 to \$438,506 in FY 2020. This line item is the stormwater enterprise fund subsidies for low income households (\$32,131), residential farms (\$11,378), and property tax-exempt properties (\$374,997), lateral replacement assistance (\$10,000), as well as streambank rehabilitation grants (\$5,000) and rain gardens/barrel grants (\$5,000). The increase represents the planned increase in the Stormwater User Fee in FY 2020. There are 119 customers that receive the property tax-exempt subsidy, of which the top ten include schools, universities and hospitals, which account for 72% of the property tax-exempt subsidy paid. There are 20 customers that receive the residential farm subsidy and there are 381 customers that receive the low-income subsidy.
14. Sales Tax increased from \$134,391 in FY 2019 to \$166,099 in FY 2020 based on increased stormwater rates in FY 2020. This expense is directly offset by sales tax revenue.
15. Software License increased from \$119,514 in FY 2019 to \$162,194 in FY 2020. FY 2018 actual was \$84,564. Milestone camera licenses increased \$22,000 and Milestone camera software maintenance was added for \$23,000.
16. Property Tax decreased from \$98,500 in FY 2019 to \$87,645 in FY 2020. FY 2018 actual was \$86,580. This line item represents the property taxes paid on property that the City leases to other entities and is offset by lease revenue.
17. Education and Training increased from \$45,881 in FY 2019 to \$48,988 in FY 2020.
18. Machinery and Equipment Maintenance increased from \$39,514 in FY 2019 to \$52,895 in FY 2020. FY 2018 actual was \$38,188. This line item includes traffic counter repairs, traffic network trouble shooting and traffic virtual server maintenance.

Machinery & Equipment

19. Equipment replacement items include (\$566,194):

<u>Engineering Administration</u>	
Chairs/Desks	\$ 1,000
Label Maker	\$ 200
Smart Phone	\$ 346
<u>Project Engineering General Fund</u>	
ASTM Manuals/Lab Equipment	\$ 4,000
Plotter/Scanner	\$ 15,000
Data Collector & Utility Locator	\$ 12,000
VIBRA-TAK™ Tachometer	\$ 320
Desks/Chairs	\$ 1,000
Ford Connect Van	\$ 31,500
Smart Phone (1) and Cell Phone (1)	\$ 446
<u>Traffic Engineering Road Use Tax Fund</u>	
PTZ Cameras (2)	\$ 19,200
Battery Back-Up Systems (5)	\$ 25,000
Servers (20)	\$ 85,500
Hardened Intersection Switches (15)	\$ 45,000
Milestone CPU (2)	\$ 6,000
ITERIS Cameras (8)	\$ 9,600
Axis Cameras (62)	\$ 74,400
Batteries (60)	\$ 12,000
APC Battery Back-Up (1)	\$ 3,000
LCD Monitor 70" (1)	\$ 2,500
Traffic Counters (3)	\$ 4,500
Smart Phone (1)	\$ 346
<u>Project Engineering Sanitary Sewer Fund</u>	
E-One Pumps (3)	\$ 6,000
General Sanitary Sewer Repairs/Maintenance	\$ 100,000
Safety Field Equip/ESCBA Respirator	\$ 4,500
Cell Phone (1)	\$ 100
<u>Project Engineering Stormwater Fund</u>	
Rain Gauges (1)	\$ 2,000
Level Transducers	\$ 2,500
Weather Station	\$ 1,100
Smart Phone (1)	\$ 346
General Stormwater Repairs/Maintenance	\$ 50,000
NPDES Municipal Operation	\$ 790
Detention Basin Maintenance	\$ 15,000
Recommended Improvement Packages	\$ 21,000
Total Equipment	\$ 556,194

Debt Service

20. Annual Debt Service Payments for FY 2020 are as follows (\$5,853,704):

Amount	Debt Series	Source	Purpose	Final Payment	Call Date
\$ 23,992	2009A G.O.	Sales Tax 30%	Fiber Optic & Street Light	2029	2025
\$ 192,800	2009A G.O.	Stormwater Fees	Stormwater Improvements	2029	2025
\$ 874,035	2009C G.O.	GDTIF/General	America's River Project	2021	2021
\$ 429	2010A G.O.	Sales Tax 30%	Street Improvements	2030	2025
\$ 55,315	2006 SRF	Stormwater Fees	North Catfish Creek	2030	
\$ 126,558	2009 SRF	Stormwater Fees	West 32nd Detention Basin	2030	
\$ 71,367	2011A G.O.	Sales Tax 30%	Southwest Arterial	2031	2018
\$ 158,591	2011A G.O.	Stormwater Fees	Stormwater Improvements	2031	2018
\$ 129,632	2012B G.O.	Stormwater Fees	Stormwater Improvements	2031	2020
\$ 9,251	2012D G.O.	Sales Tax 30%	FEMA Flood Buyout	2027	2019
\$ 29,300	2012D G.O.	Stormwater Fees	Stormwater Improvements	2033	2019
\$ 80,555	2012E G.O.	Sales Tax 30%	Southwest Arterial	2032	2018
\$ 8,920	2012E G.O.	Stormwater Fees	Stormwater Improvements	2032	2018
\$ 413,942	2010 SRF	Stormwater Fees	Lower Bee Branch	2032	
\$ 323,100	2014A G.O.	Sales Tax Increment	Bee Branch Watershed	2029	2024
\$ 52,174	2014B G.O.	Sales Tax 30%	Street Improvements	2034	2021
\$ 63,260	2014 SRF	Sales Tax 30%	Lower Bee Branch	2034	
\$ 1,476,573	2015B SRF	Sales Tax Increment	Upper Bee Branch	2035	
\$ 762,650	2015A Revenue	Sales Tax Increment	Bee Branch Watershed	2029	2026
\$ 727,650	2016B G.O.	Sales Tax 20%	Stormwater Refunding	2036	2024
\$ 18,319	2016C G.O.	Stormwater Fees	Federal Building Roof	2037	2024
\$ 255,291	2018 SRF	Stormwater Fees	Bee Branch Watershed	2038	
\$ 5,853,704	Total Engineering Annual Debt Service				

Revenue

21. Riverfront Leases increased from \$2,025,658 in FY 2019 to \$2,270,423 in FY 2020 based on the projected revenue which is as follows:

Lease	FY19 Budget	FY20 Budget
Artco Fleeting Service	\$ 1,200	\$ 1,050
Colleen Bradley Lindstrom	\$ 3,600	\$ 3,600
Dubuque Historical Society	\$ 45,695	\$ —
Dubuque Marina	\$ 31,033	\$ 31,653
Dubuque Terminals - South Port Inland	\$ 13,900	\$ 13,900
Dubuque Terminals Dove Harbor	\$ 119,500	\$ 121,890
Dubuque Yacht Basin	\$ 24,392	\$ 24,813
Flint Hill Resources	\$ 670,000	\$ 676,700
Freebird II, LLC - Lease 2	\$ 6,792	\$ 6,792
Freebird III, LLC	\$ 58,000	\$ 58,000
Hawkeye Truck & Trailer	\$ 20,563	\$ —
Hodge Company	\$ 2,183	\$ —

<u>Lease</u>	<u>FY19 Budget</u>	<u>FY20 Budget</u>
Hodge Transit Warehouse Co	\$ 236,700	\$ 355,064
Klauer Manufacturing	\$ 100	\$ 100
Riverboat Twilight	\$ 6,000	\$ 5,500
Gavilon - Land By City Salt Pile	\$ 259,000	\$ 264,180
Gavilon Dove Harbor	\$ 527,000	\$ 537,540
Thompson Truck and Trailer LLC	\$ —	\$ 7,341
Port of Dubuque Brewery Development	\$ —	\$ 62,100
Diamond Jo Patio Lease*	\$ —	\$ 25,000
Platinum Holdings LLC*	\$ —	\$ 75,200
Total	\$ 2,025,658	\$ 2,270,423

***Platinum Holdings LLC lease was budgeted in the Grand River Center budget and Diamond Jo Patio lease was budgeted in undistributed General Fund revenues in FY 2019.**

22. Wharfage Fees on Leased Property increased from \$117,000 in FY 2019 to \$123,000 in FY 2020 and is dependent on how much business is being conducted at the Wharf.

<u>Lease</u>	<u>FY19 Budget</u>	<u>FY20 Budget</u>
Freebird II, LLC - Lease 2	\$ 19,500	\$ 22,000
Gavilon Dove Harbor	\$ 65,000	\$ 65,000
Gavilon - Salt Site	\$ 12,500	\$ 16,000
Flint Hill Resources	\$ 20,000	\$ 20,000
Total	\$ 117,000	\$ 123,000

23. Non-Riverfront Lease decreased from \$171,751 in FY 2019 to \$135,138 in FY 2020.

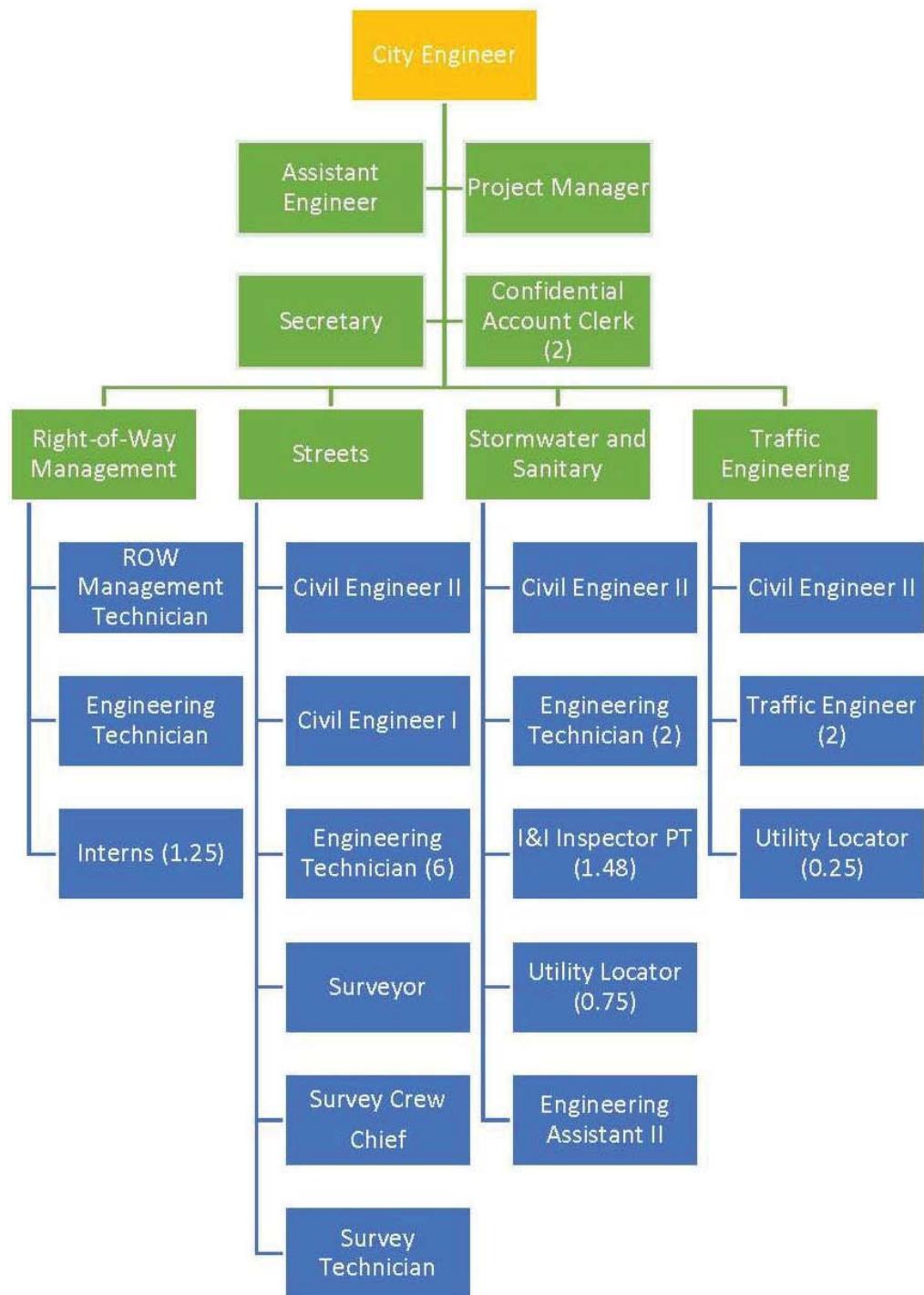
<u>Lease</u>	<u>FY19 Budget</u>	<u>FY20 Budget</u>
ABC Building	\$ 47,271	\$ —
Dubuque Rescue Mission	\$ 1	\$ 1
HHH Enterprises	\$ 2,052	\$ 2,093
Hartig Drug	\$ 1,808	\$ 1,844
16th St. Detention Basin - Rainbo Oil	\$ 120,619	\$ 123,031
Interstate Power & Light Co (Graf Farm Solar)	\$ —	\$ 8,169
Total	\$ 171,751	\$ 135,138

24. Stormwater Penalties increased from \$25,719 in FY 2019 to \$28,845 in FY 2020 based on FY 2018 actual of \$28,845.

25. The FY 2020 Stormwater User Fee increased from \$7.76 per SFU to \$8.29 per SFU, a 6.83% increase, consistent with Ordinance 16-14 passed on March 5, 2014.

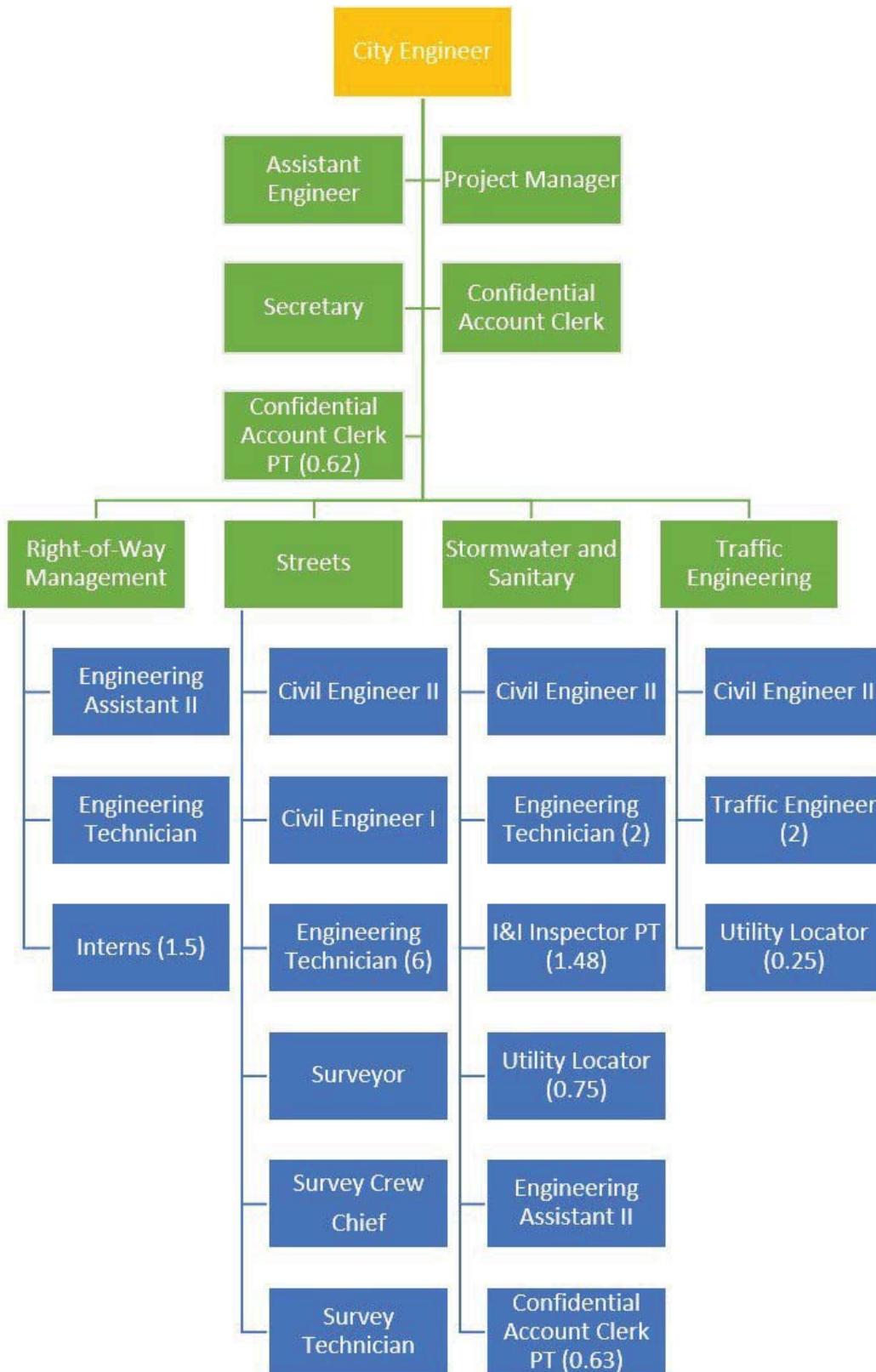
	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Adopted Per Ordinance 21-12	\$ 8.50	\$ 9.00	\$ 9.00	\$ 9.00	\$ 9.00	\$ 9.00	\$ 9.00	\$ 9.00
Adopted Per Ordinance 16-14	\$ 6.38	\$ 6.81	\$ 7.27	\$ 7.76	\$ 8.29	\$ 8.85	\$ 9.00	\$ 9.00
% Decrease From Ordinance 21-12	-24.94%	-24.33%	-19.22%	-13.78%	-7.89%	-1.69%	—%	—%

* The recommended rates for FY16 through FY20 reflect the rates previously established by Ordinance 16-14 following the State's approval of \$98.5 million in State Flood Mitigation state sales tax increment funds for the Bee Branch Watershed Flood Mitigation Project. Ordinance 21-12 was the ordinance adopted prior to the City receiving the Flood Mitigation grant.



ENGINEERING DEPARTMENT

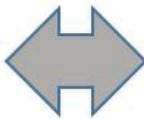
The mission of the Engineering Department is to promote public safety by providing engineering services related to the planning, development, construction, and maintenance of the City's public infrastructure systems.



SUCCESS IS ABOUT PLANNING, PARTNERSHIPS AND PEOPLE LEADING TO OUTCOMES

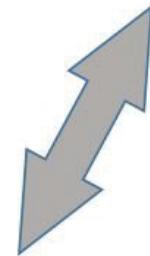
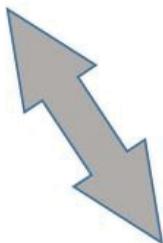
PEOPLE

Engineering continues in its emphasis on public information meetings concerning projects that have a significant impact on property owners. These meetings provide an opportunity for meaningful exchange between the City and property owners on the project scope and its impact.



PLANNING

Engineering coordinates its project planning with multiple City Departments. In addition the department is involved in the Dubuque Metropolitan Area Transportation Study and works with the East Central Intergovernmental Agency in planning projects. This ensures a regional view is considered in project development.



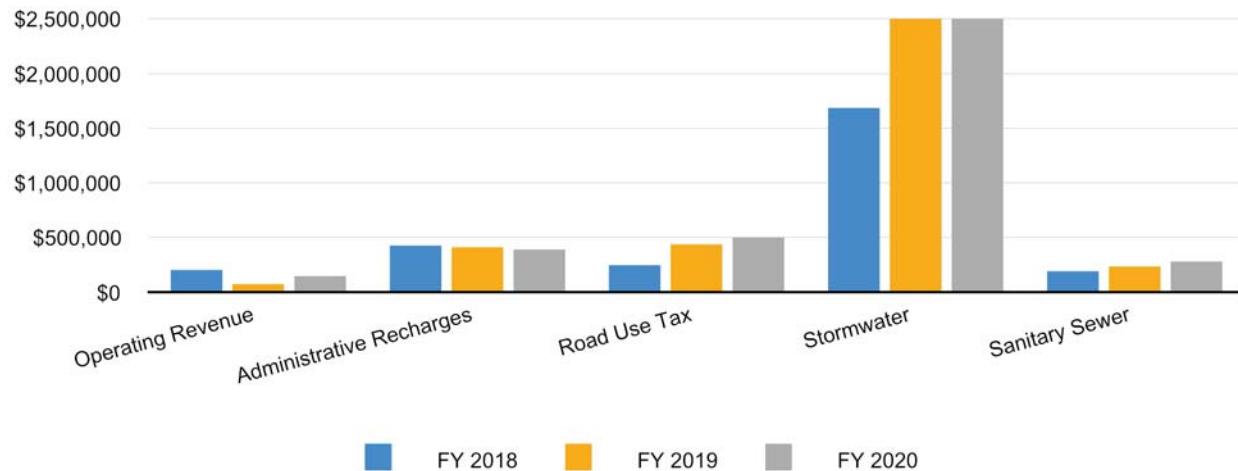
PARTNERSHIPS

The Engineering Department works with the Iowa Department of Transportation (IDOT), the Access Board, Federal Highway Administration (FHWA), East Central Intergovernmental Agency (ECIA), Dubuque County, Historic Preservation Commission, Neighborhood Groups, Tri-State Trail Vision and many other entities when planning and constructing projects.

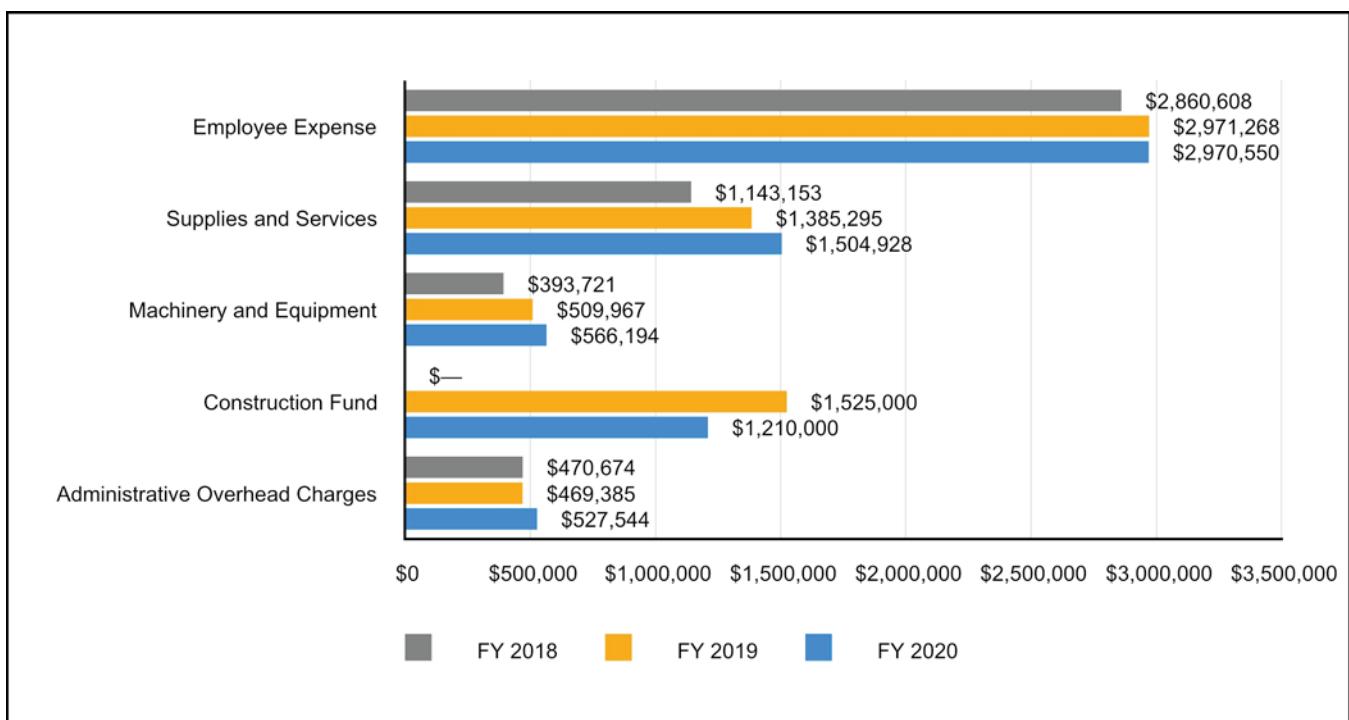
ENGINEERING DEPARTMENT

	FY 2018	FY 2019	FY 2020
Full-Time Equivalent	29.29	30.23	29.96

Resources



The Engineering Department is supported by 29.96 full-time equivalent employees, which accounts for 57.57% of the department expense as seen below. Overall, the department's expenses are expected to increase by 0.30% in FY 2020 compared to FY 2019.



ENGINEERING DEPARTMENT

Activity: Right-of-way Management and Streets

Right-of-Way Overview

Right-of-way (ROW) is land which is owned by the City to provide a defined area for essential facilities and services for all such as transportation, communication, water, sewer, power in order to provide, sustain, enhance and develop a progressive, safe community. Typically, the width of public ROW is 50, 60, or 64 feet, although other widths may occur. Right-of-Way Management involves monitoring the public right-of-way for approved, and prohibited, activities and placements; excavations for utilities, sidewalks and driveways - inspections, installations, appeals, repairs of new and replacements; dumpsters, sidewalk cafes, retaining walls, snow clearing, easements, accessibility and licenses of encroachment. This activity also includes the maintenance of records of above activities for compliance of right-of-way access and amenities.

Utility Locate Service Overview

The Engineering Department provides locates for City-owned utilities as part of the Iowa One Call locate service. These utilities include water main, sanitary sewer, storm sewer, electric and fiber optics. The goal of the Iowa One Call locate service is to minimize the risk of damaging any type of underground facilities. The City responds to approximately 7,000 locate requests per year. In order to accurately respond to One Call requests, the Engineering Department uses surveying and GIS equipment to map the locations of existing and newly constructed infrastructure

Streets Overview

Street activity involves planning, inspection and reconstruction and major maintenance for streets and alleys. The City maintains a pavement management system which contains a ranking and condition which helps to identify the Capital Improvement Projects for next 5 year period. The projects are designed to accomplish goals of sustainability, mobility, affordability, constructibility and long lasting results as well as be in compliance with the latest standards and specifications, federal, state and local regulations. Assessable projects for reconstructions are prepared by this Activity. This activity is highly called upon during emergency events and crises. Agency involvement may include Iowa Department of Transportation (IDOT), State Historical Preservation Office (SHPO) and various railroads.

Right-of-way and Streets Funding Summary			
	FY 2018 Actual	FY 2019 Budget	FY 2020 Requested
Expenditures	\$2,676,717	\$2,275,199	\$2,056,049
Resources	\$2,234,751	\$3,607,876	\$(1,149,463)

ENGINEERING DEPARTMENT

Right-of-way and Streets Position Summary	
	FY 2020
City Engineer	0.30
City Engineer - Service Fund	0.15
Assistant City Engineer	0.30
Assistant City Engineer- Svc Fd	0.70
Project Manager	0.40
Project Manager - Service Fund	0.10
Civil Engineer II	0.95
Civil Engineer II - Service Fund	1.55
Survey Technician	0.15
Survey Technician - Service Fund	0.30
Survey Party Chief	0.15
Survey Party Chief - Service Fd	0.30
Engineering Technician	1.90
Engineering Technician - Service Fd	2.50
Engineering Assistant II	0.10
Engineering Assistant II - Service Fd	0.40
Surveyor	0.80
Surveyor - Service Fund	0.20
Engineering Aide	0.25
Engineering Aide - Service Fund	1.00
Traffic Engineer	0.60
Traffic Engineer - Service Fund	0.40
Confidential Account Clerk	0.65
Confidential Acct Clerk - Service Fd	0.05
Secretary - Admin	0.25
Secretary - Admin Internal Svc	0.25
ROW Technician	0.90
ROW Technician - Service Fd	0.10
Engineering Aide - Seasonal	0.25
Total FT Equivalent Employees	15.95

Highlights of the Past Year

Southwest Arterial

- Current Status - The Southwest Arterial (US 52) project is fully under construction with multiple active construction projects underway from US20 to US61-151. To-date, thirteen (13) projects have been completed at a cost of approximately \$42.3 million. There are currently ten (10) active projects under construction for a total amount of approximately \$46.3 million. In June 2018, the Iowa DOT approved in their 5-Year Transportation Improvement Program, the additional funding to complete the 4-lane construction of the Southwest Arterial. The Iowa DOT will bid the 4-lane paving in February 2019 at an estimated cost of \$38.8 million.
- Property Acquisition - The City is substantially complete with all the right-of-way acquisition for the 56 impacted properties along the Southwest Arterial (US 52) Corridor. In total, there were 93 owner, leasehold or rental tenants affected, each requiring separate negotiated

ENGINEERING DEPARTMENT

purchase agreement settlements. As of November 2018, the City has spent to-date approximately \$16.8 million for right-of-way property acquisition.

- Construction -
 - English Mill Road reconstruction project was completed in May 2018; final cost is approximately \$3.9 Million.
 - Menards Frontage Road project is currently under construction, approximately 95% complete. Work will finish in the spring of 2019. Cost projection \$8.8 Million.
 - US20 / Seippel interchange grading project is completed. Cost projection \$6.4 Million.
 - West grading project from English Mill to Catfish Creek is complete. Cost projection \$8.8 Million.
 - Military Road reconstruction project is complete. Cost projection \$5.2 million.
 - US20 / Seippel interchange WB Ramp D bridge is complete. Cost projection \$853,000.
 - US20 / Seippel interchange WB Ramp D paving is complete. Cost projection \$850,000.
 - Elmwood Drive Bridge Over Granger Creek is complete. Cost projection \$1.4 Million.
 - US 20 Interchange, EB Ramp C Bridge is complete. Cost projection \$1.2 Million.
 - US 20 Mainline Dual Bridges Over Catfish Creek are currently under construction, approximately 95% complete. Cost projection \$2.5 Million.
 - Southwest Arterial Overpass Bridge Over US Highway 20 is currently under construction, approximately 50% complete. Cost projection \$9.5 Million.
 - Southwest Arterial Overpass Bridge Over US Highway 61-151, is currently under construction, approximately 30% complete. Cost projection \$8.2 Million.
 - East grading project (Phase 2) from Catfish Creek to Military Road is currently under construction, approximately 80% complete. Cost projection \$6 Million.
 - SW Arterial WB Bridge Over Catfish Creek is currently under construction, approximately 50% complete. Cost projection \$4.2 Million.

Other Notable Project Accomplishments

- Construction of the Grandview-University Roundabout
- Construction of the Loras and Grandview Traffic Signalization Project
- JFK and NW Arterial Right Turn Lane Improvements
- Resurfacing of 11th Street from Elm to White Streets (US 52) and resurfacing of White Street from 9th to 11th Street (US 52).
- Provided construction inspection services on private subdivision developments, including; South Pointe; Rustic Point; Timber-Hyrst; and English Ridge.
- Reconstruction of 17th Street from Elm Street to Heeb Street. All utilities and large capacity storm sewer is constructed. Final surface of the roadway to be completed in spring 2019.
- Reconstruction of 22nd Street from Elm Street to White Street.

Future Initiatives

- Continue with construction and the completion of the Southwest Arterial in December 2019
- Resurfacing of US 52 / Central Avenue Phase 4, between 9th and 21st streets

ENGINEERING DEPARTMENT

- Initiate final engineering and property acquisition phase for the University Avenue overlap area as part of the East-West Corridor improvements.
- Design and construction of Kauffmann Avenue from Central Avenue to Kane Street (HUD Resiliency Project)
- Design and construction of 17th Street from Heeb Street to West Locust Street (HUD Resiliency Project)
- Design and construction of W. Locust Street from 17th Street to Angella Street (HUD Resiliency Project)
- Design rehabilitation improvements for Chavenelle Road from NW Arterial to Radford Road.
- North Cascade Road Reconstruction - Edval Lane to Catfish Creek Bridge. Expect bidding in spring 2019 with construction summer of 2019.

ENGINEERING DEPARTMENT

Performance Measures

Right-of-Way Management - Activity Statement

Manage the public right of way so that it is safe and accessible for all users.

Streets - Activity Statement

Construct and maintain streets in a fiscally responsible way to also provides for safe and efficient transportation for all users.



Goal: Connected Community



Outcome #1: Provide safe walking pathways throughout the City, including pedestrian access ramps

Citizen Impact:

Staff react to complaints concerning sidewalks and ramps. Staff also proactively inspect pedestrian corridors to ensure people of all abilities have access. By making sure pedestrian facilities meet current standards, it minimizes the chance of people tripping and making travel easier for people with disabilities.



Sidewalk not shoveled

Did you know?

In 2018 the City of Dubuque sent out 401 notices to properties due to either defective sidewalks or failure to shovel the sidewalk.

Many Dubuque residents have mobility issues. Pedestrian access ramps that are constructed correctly, improve the accessibility of these limited mobility individuals. When the City resurfaces or reconstructs streets, the access ramps are evaluated and upgraded to meet current American with Disability Act requirements.



Cracked and heaving sidewalk - Tripping hazard



New ADA Curb Ramps

ENGINEERING DEPARTMENT



Goal: Great Place to Live



Outcome #2: Manage the work in right of way permits.

Citizen Impact:

If work in the right of way is not managed, the City may not have information on the type of pavement repair that may have occurred, if the utility is buried at the correct depth, does the contractor have proper insurance, etc. The City manages all right of way excavations by issuing permits to work in the right of way. The permits are tracked in a central database that allows multiple departments to see what work may have occurred and who performed the work. This ensures every department has the same information.



Emergency Water main repair in the winter

Did you know?

The City holds monthly coordination meetings with all utilities to help coordinate all utility work that may occur in the right of way. This coordination effort helps with minimizing the amount of excavations that may occur in a given area and reduces the inconvenience to the public.

There were 235 excavation permits and 219 driveway/sidewalk permits issued in 2018. The Engineering Department adopted a new excavation policy so that damage to City streets and other infrastructure is minimized.

The Engineering Department responds to approximately 7,000 Iowa One Call locate requests per year to locate City-owned utilities which include water main, sanitary sewer, storm sewer, electric and fiber optics.



Goal: Connected Community



Outcome #3: Provide complete, safe and efficient street systems

Citizen Impact:

By constructing streets that utilize perpetual pavements, we create a strong transportation network that minimizes the inconvenience to the traveling public and reduces long terms costs. The current average condition rating for all streets in Dubuque is 78 on a scale of 100. The objective is to maintain the street rating each year.

Did you know?

The City of Dubuque has over 300 centerline miles of streets. All of these streets were scanned in the fall of 2015 and again in the fall of 2017. The Engineering Department entered all of this data into a pavement management system so the street degradation can be measured and future maintenance can be planned based on the objective data.



Pavement Scanning Van measures smoothness and cracking

ENGINEERING DEPARTMENT



Installation of Geogrid over joints



New Asphalt Interlayer Installation to reduce cracking

Did you know?

The City has a Complete Streets Policy adopted in 2011. As part of that policy, all street reconstruction projects must attempt to make the street as complete as possible. This includes accommodations for vehicles, transit, bicycles and pedestrians. Recent projects following the policy include the Historic Millwork District Complete Streets Project, the 9th and 11th Street One-way to Two-way Conversion Project and the Elm Street Reconstruction Project (9th to 12th Streets). The City also has a pavement marking fund that can be used toward bike lanes and shared bicycle area markings called "sharrows". Additionally, there is a fund for enhanced cross-walks to help in school areas and other high traffic pedestrian zones.

Did you know?

The City is actively trying to expand the amount of hike/bike trails available to citizens. To date the City has constructed 11.47 miles of trails since 1999.



Bike Lanes on Jackson Street



Bike Sharrows on 10th Street

ENGINEERING DEPARTMENT

Activity: Stormwater Management

Overview

The mission of the City's Stormwater Management Utility is to help protect the health of citizens and both the natural and built environment by designing, implementing, and maintaining an effective, efficient municipal stormwater management system. The City of Dubuque has the responsibility as private property owners: manage stormwater on its property.

Projects range from the construction of new detention basins and the extension of storm sewer systems to the rehabilitation of existing storm sewer systems. Programs range from ditch, storm sewer, and detention basin maintenance to limiting pollutants associated with stormwater runoff. Major projects include the twelve phases of the Bee Branch Watershed Flood Mitigation Project (Carter Road Detention Basin, W. 32nd Street Detention Basin, Bee Branch Creek Restoration, Green Alley/Impervious Pavement Reduction, etc.), storm sewer redesign and construction in conjunction with street reconstruction projects, and the replacement/extension of storm sewer systems to address specific drainage issues.

Stormwater Funding Summary			
	FY 2018 Actual	FY 2019 Budget	FY 2020 Requested
Expenditures	\$4,854,819	\$5,293,341	\$5,275,137
Resources	\$4,854,819	\$5,293,341	\$5,275,137

Stormwater Position Summary	
	FY 2020
Civil Engineer II	0.20
Civil Engineer II - Service Fund	1.20
City Engineer	0.15
City Engineer - Service Fund	0.10
Engineering Technician	1.00
Engineering Technician - Service Fd	1.85
Engineering Assistant II	0.10
Engineering Assistant II - Service Fd	0.40
Survey Party Chief - Service Fund	0.25
Survey Technician - Service Fund	0.25
Project Manager - Service Fund	0.25
Utility Locator - Stormwater	0.25
Utility Locator - Water	0.25
Confidential Account Clerk	0.30
I&I Inspector	1.46
Confidential Account Clerk - Service Fd	0.35
Total FT Equivalent Employees	8.36

ENGINEERING DEPARTMENT

Highlights of the Past Year

- Completed the engineering design and property acquisitions required for the Bee Branch Creek Railroad Culverts Project (Phase 7 of the Bee Branch Watershed Flood Mitigation Project). This segment of the Bee Branch Creek Restoration Project involves the installation of culverts through the Canadian Pacific at 506 Garfield Avenue;
- Completed construction of the 22nd St/Kaufmann Ave Storm Sewer Improvements Project (Phase 8 of the Bee Branch Watershed Flood Mitigation Project) from Elm Street to White Street;
- Substantially completed construction of the 17th St/W. Locust St Storm Sewer Improvements Project from Elm Street to Heeb Street (Phase 12 of the Bee Branch Watershed Flood Mitigation Project);
- Completed the storm sewer improvements on White Street between 9th and 11th Streets to alleviate street flooding in the Millwork District (CIP# 7202274 - US52 Storm Sewer: 11th Street from Elm to White and White Street from 9th to 11th Street); and
- Initiated the design and property acquisition stage of the Hillcrest-Rosemont Detention Basin Project (CIP#7202758).

Future Initiatives

- Construction of the Bee Branch Railroad Culverts Project (Phase 7 of the Bee Branch Watershed Flood Mitigation Project);
- Engineering design of the Bee Branch Flood Control Pumping Station Gates and Pump Station Project (Phase 5 of the Bee Branch Watershed Flood Mitigation Project);
- Construction of the 22nd St/Kaufmann Ave Storm Sewer Improvements Project (Phase 8 of the Bee Branch Watershed Flood Mitigation Project) from White Street to Kleine Street; and
- Construction of the Hillcrest-Rosemont Detention Basin Project.

ENGINEERING DEPARTMENT

Performance Measures

Stormwater Management - Activity Statement

Provide a storm and surface water system that protects the health and safety of citizens, controls damage from storms, and protects the environment.



Outcome #1: Engineer, construct, and maintain facilities to mitigate the effects of flooding

The Engineering Department continues to analyze various segments of the public drainage systems in order to identify improvements that will mitigate the effects of flooding. When deficiencies are identified, improvements throughout the entire watershed are considered. Some drainage issues involve hundreds of properties, both public and private. In order to address these issues, the entire watershed must be considered and sometimes major drainage improvements are appropriate.



Basement flooding high water mark on water heaters



Street flooding on 22nd Street

Citizen Impact:

While most homeowners can install gutters and downspouts and install landscaping that forces water to flow away from their house, sometimes they are powerless to protect their home from flooding - flooding that inundates water heaters, furnaces, and electrical boxes, and can cause fires.

Did you know?

Flood disasters have repeatedly impacted residents and businesses (over 1,370 properties) in the Bee Branch watershed. Between 1999 and 2011, six Presidential Disasters have issued due to the damage estimated at \$70 million caused by the flooding.



The Bee Branch Creek Railroad Culverts Project involves tunneling under the Canadian Pacific railroad tracks at 506 Garfield Avenue.

Major Project Bee Branch Creek Railroad Culverts Project

The Bee Branch Creek Restoration involves replacing almost a mile of storm sewer with a creek and floodplain through an area where the Bee Branch/Couler Creek once flowed a 100 years ago. This "day-lighting" of the buried creek allows stormwater to safely move through the area without flooding adjacent properties. During heavy rains, stormwater rises out of the creek and fill the green space instead of flooding streets and homes. The project represents two phases of the Bee Branch Watershed Flood Mitigation Project that when complete will prevent an estimated \$582 million in damages over the coming century.

ENGINEERING DEPARTMENT



Goal: Connected Community



Outcome #2: Design and oversee construction of street/public right-of-way drainage systems to mitigate flooding and make the street available to the public during a rain event.

Drainage systems are designed to strike a balance between initial capital costs, maintenance costs, and public protection with consideration given to public safety, environmental protection, and need for maintenance. Storm sewers are evaluated and typically reconstructed in conjunction with a street reconstruction project. Storm sewer improvements are also evaluated throughout the City as issues arise. These improvements are prioritized with funding programmed into the five-year Capital Improvement Program budget.

Citizen Impact:

Street drainage systems allow general traffic and emergency vehicles to safely utilize the street to travel through the community.

Did you know?

Streets themselves function as part of the overall stormwater drainage system. Curb and gutter sections collect stormwater and direct it to storm sewer intakes which allow the runoff to enter into the underground storm sewer pipes.



Goal: Sustainable Environment



Outcome #3: Maintain or improve the quality of stormwater runoff in accordance with the federal Clean Water Act.

After it rains, the streets look cleaner -- and that's a problem. Stormwater rushing over paved surfaces picks up everything from oil to pesticides to sediment and then flows, either directly or via a storm sewer, into the Bee Branch, Catfish Creek, and Mississippi River. The pollutants in stormwater can lead directly to fish kills and unsafe conditions for citizens.



Silt fence failure allowing sediment to leave a construction site



Sediment deposition clogging a storm sewer inlet

Did you know?

The City of Dubuque inspects construction sites with grading activities when more than an acre of land is disturbed to ensure that best practices are employed to prevent sediment from leaving the construction site.

ENGINEERING DEPARTMENT

Outcome #4: Help mitigate the potential for pollution and flooding due to the development of private property.

The City of Dubuque has ordinances and associated policies in place to mitigate increased runoff typically associated with land development or land use changes. Development and redevelopment plans are reviewed and construction sites are inspected to ensure compliance with applicable ordinances and policies.

Activity: Sanitary Sewer Collection

Overview

The City of Dubuque's Sanitary Sewer Collection system serves just less than 30 square miles of contiguous property with approximately 300 miles of piping and over 7,000 manholes. With roughly 21,000 private connections from homes and businesses, the public system delivers wastewater to the Water and Resource Recovery Center (W&RRC) where it is treated in accordance with the federal Clean Water Act before being discharged in the Mississippi River.

Collection system improvements are managed by the City's Engineering Department under the City Engineer. Operations and maintenance of the collection system are managed by the W&RRC and the Public Works Departments. Funding for operations, maintenance, and improvement projects is generated via revenues collected during monthly billings of private and public users. The funds are collected and maintained in an Enterprise Fund and are only available for work directly associated with the sanitary sewer collection system.

Sanitary Sewer Collection Funding Summary			
	FY 2018 Actual	FY 2019 Budget	FY 2020 Requested
Expenditures	\$188,916	\$516,028	\$557,989
Resources	\$188,916	\$516,028	\$557,989

Sanitary Sewer Collection Position Summary	
	FY 2020
City Engineer	0.15
City Engineer - Service Fund	0.15
Civil Engineer II	0.10
Project Manager	0.10
Project Manager - Service Fund	0.15
Engineering Technician	0.10
Engineering Technician - Service Fund	1.65
Survey Party Chief - Service Fund	0.30
Survey Technician - Service Fund	0.30
Secretary	0.25
Secretary - Service Fund	0.25
Confidential Account Clerk	0.30
Confidential Account Clerk - Svc Fund	0.10
Utility Locator	0.25
Total FT Equivalent Employees	4.15

ENGINEERING DEPARTMENT

Highlight of the Past Year

- Maintained compliance with the 2011 Consent Decree among the City of Dubuque, the U.S. Department of Justice, the U.S. Environmental Protection Agency, and the State of Iowa. The stated purpose of the Consent Decree is for the City of Dubuque to take all necessary measures to achieve full compliance with the federal Clean Water Act, Iowa water Pollution Control Laws, and the City's NPDES Permit. The City's goal is to eliminate all sanitary sewer overflows;
- Completed the design of the Marquette Sanitary Sewer Reconstruction Project - a project listed on the Consent Decree corrective action plan;
- Completed construction of the 30th and Jackson Sanitary Sewer Improvements Project - a project listed on the Consent Decree corrective action plan;
- Completed construction of the sanitary sewer extension to serve the Derby Grange Road area;
- Initiated construction of the Kerper Boulevard Sanitary Sewer Project.

Future Initiatives

- Continued use of the sanitary sewer SCADA system to monitor for increased flows to the system and ward off potential overflows.
- Continue successful inflow and infiltration reduction measures including sewer pipe rehabilitation and replacement; manhole rehabilitation and replacement; and source detection through inspection and flow metering.

Performance Measures

Sanitary Sewer Collection - Activity Statement

Define and implement capital improvements to improve the City's existing sanitary sewer collection infrastructure and provide direction and standards for future expansion and connections to the system.



Outcome #1: Reduce inflow and infiltration (I&I) into the sanitary sewer collection system and work to eliminate the source or secure the sanitary sewer from the source

The City continues to develop and further refine a sophisticated computer model of the sanitary sewer system to help assess the necessary capacity of various sewer elements. Sewers found to have insufficient capacity are then scheduled for replacement, and if possible, done as part of a street reconstruction project. Over the years, the City has also developed an Inflow and Infiltration (I&I) Program to help eliminate storm water inflow and groundwater infiltration into the City's sanitary sewer collector system. In addition to replacing segments of the sewer system where I&I is evident, the City also rehabilitates these sewers and manholes through a process that requires no excavation. Instead, a liner is placed inside the existing pipe, resulting in what amounts to a brand-new pipe.

ENGINEERING DEPARTMENT

Outcome #2: Reduce incidents of Fats, Oils and Grease related SSO's through education, inspection, corrective action and enforcement



Oils and grease in a sanitary sewer lift station

Fats, Oils, and Grease (FOG) Program

Implementing a fats, oils, and grease program is an important part of the City's compliance with its Sanitary Sewer Capacity, Management, Operation and Maintenance Program (CMOM). The City's CMOM program was developed as part of a required submission under the terms of the Consent Decree entered into by the City, the State of Iowa, and the United States in 2011. The primary objective of a FOG Program is to reduce incidents of FOG related SSO's through, education, inspection, corrective action, and enforcement.

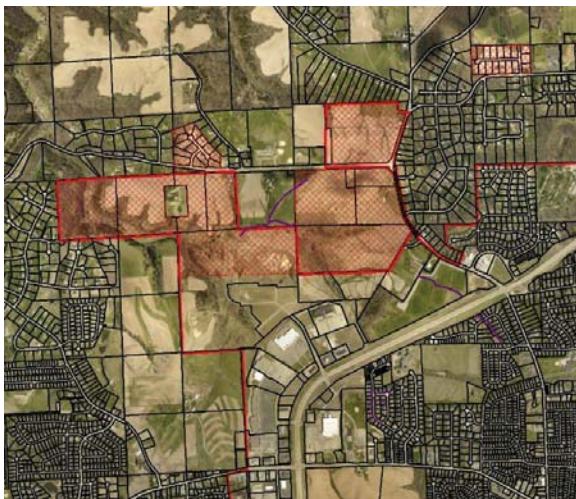
Did you Know?

When warm Fats, Oils, or Grease are poured down a drain it may appear that it would not clog a sewer, but when it cools it becomes a solid, coating the sewer pipe, and restricting the flow of wastewater. This can lead to a sanitary sewer overflow and sewer back-ups into homes and businesses.



Build up of grease in sanitary sewer pipe

Outcome #3: Prepare for future expansion and sanitary sewer service needs



Map showing the area served by the extension of sanitary sewer to the Dubuque Regional Airport

As the City grows through the development of agricultural property or through annexation, steps are taken to extend sanitary sewer and water main to service those areas. The recent expansion of sanitary sewer south toward the airport provides the City with the foundational infrastructure needed for future utility extensions to serve the Granger Creek Sewershed consisting of over 5,700 acres. More recently, the City has undertaken the task of extending sanitary sewer to provide service to developments off of Derby Grange Road.

ENGINEERING DEPARTMENT

Activity: Traffic Engineering

Overview

This Activity is responsible for overseeing the planning, inspection and daily operation of active projects for the movement of pedestrians, vehicular traffic, fiber optic expansion, street lighting, traffic signals, traffic controls, fiber optic and communications infrastructure, traffic and security cameras, traffic signage and pavement markings throughout the City and provides guidance to the Public Works Department. Other activities involve the review and recommendations for parking meter districts, residential parking districts and accessible parking spaces according to local, state and federal guidelines. This activity is highly called upon during emergency events and crises. Agency involvement with IDOT, FHWA, State Bureau of Transportation Safety.

Projects included right turn lane at JFK & NW Arterial, Fiber along Kerper Boulevard, University-Grandview Roundabout Project as well as, fiber maintenance and extensions, traffic cameras, traffic counts, and pavement markings.

Traffic Engineering Funding Summary			
	FY 2018 Actual	FY 2019 Budget	FY 2020 Requested
Expenditures	\$18,586	\$71,782	\$153,780
Resources	\$6,000	\$8,117	\$17,681

Traffic Engineering Position Summary	
	FY 2020
Confidential Account Clerk	0.25
Utility Locator	0.25
Traffic Engineering Assistant	0.00
Traffic Engineering Assistant - Svc Fd	0.00
Total FT Equivalent Employees	0.50

Highlights of the Past Year

- During the 2018 year more than 8.6 miles of fiber was installed due in part to joint private/public agreements between the city and data providers.
- Fiber conduit was installed along Highway 20 from Locust Street to Hill Street (4,600 feet). This will ultimately tie into US 20.
- Completed acquisition of 25,000 feet of fiber conduit through the city from downtown to the west end. Installed fiber along route for continuous fiber from downtown to the west end of Dubuque.
- Completed installation of Fiber Optic cable and electrical conduit along Grandview Avenue from Highway 20 to University Avenue (1,108 feet).
- Installed conduit along Alta Vista Street from university Avenue to Kirkwood Street (3,060 feet)
- Installed fiber optic cable using the old AT&T route from Bluff Street to the NW Arterial (4.05 miles).

ENGINEERING DEPARTMENT

Future Initiatives

- Continue work on safety grants
- Reconstruction of traffic signals at Asbury and Carter and Asbury at Chaney along with a fiber inner-connect and ITS improvements.
- Reconstruction of fiber optic route along US 20 from Devon Drive to Wacker Drive (near completion)
- Installation of fiber and electrical duct along Grandview Avenue from US 151 to Grandview at Delhi (under design)
- Fiber maintenance and extensions
- Traffic Camera maintenance and additions
- Continued work on Dubuque's STREETS traffic management program.
- Update Pavement Markings
- Continued efforts to improve Dubuque's communications infrastructure through private/public partnerships to enhance bandwidth and redundancy and to promote economic growth.

Performance Measures

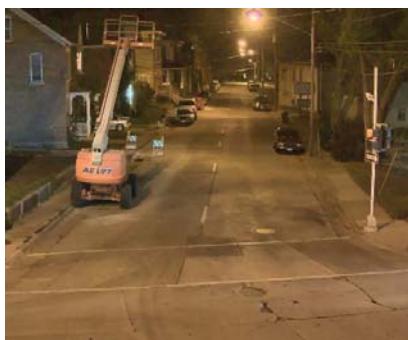
Traffic Engineering - Activity Statement

Overseeing planning for the movement of pedestrian and vehicular traffic to ensure the City's transportation infrastructure is in a state of good repair for the purposes of public safety and the efficient movement of people, goods and services.

Goal: Financially Responsible, High Performance Organization

Outcome #1: Reduce energy and maintenance costs as well as increase safety by replacing existing street lights with LED lighting.

This objective helps vehicles, bikes and pedestrians safely navigate the corridor by providing lighting that is evenly distributed. LED lighting is also more efficient and don't require the same maintenance as High Pressure Sodium Lights. The energy costs are reduced by 50% by using LED lights which last 15 years versus 5 to 6 years for high pressure sodium.



High Pressure Sodium Lighting



LED Lighting

Did you Know? The City of Dubuque owns 2,307 street lights of which:

- 1,006 are high pressure sodium
- 7 are incandescent
- 146 are metal halide
- 1148 are LED

ENGINEERING DEPARTMENT



Goal: Improved Connectivity



Outcome #2: Provide a road network that ensures a high level of safety for vehicles, cyclists, and pedestrians.

Over the past couple of years the City of Dubuque has been installing microwave detection at intersections and continues to update several intersections each year. This system provides multiple benefits since it doesn't have to be replaced during roadway repairs and can detect vehicles and bikes.

Did you know?

Currently 32 intersections have microwave detection installed at them. Over the next year, the City of Dubuque is planning on installing them at 3 additional intersections. In the future microwave detection will be installed at the rate of 3 to 4 intersections a year. Microwave detection improves the efficiency of the intersection. It allows the intersection to be very reactive at night when the volume of traffic is down since it can detect vehicles that are 140 feet away which will minimize the time spent at these traffic signals.

Outcome #3: Update traffic signalization infrastructure to Intelligent Transportation Systems (ITS) by providing improved levels of service and quicker response to signal and traffic control conditions and issues by connecting them to the Traffic Operations Center.



Intersection with microwave traffic detectors uninhibited by extreme weather conditions



Closeup of a microwave traffic detector

The system is interconnected by using fiber that connects to each intersection or key location and is connected into a switch to communicate to the equipment in the field. This allows the City of Dubuque make changes to the timings, detection or devices from the Traffic Operations Center. In case of unforeseen road closures it can be difficult to reach the intersections effected to make the necessary changes but could be made from the Traffic Operations Center and then sent to the equipment and can use cameras to monitor the situation.

Citizen Impact: This updated infrastructure has allowed the Traffic Engineering staff the ability to react faster to changing traffic conditions. Currently there are six different traffic management plans for the US 20 corridor to move traffic. With the coordinated traffic control in this corridor delays have been reduced so traffic may only stop at one intersection during peak traffic. This is in contrast to previous years where vehicles would be delayed at multiple intersections.

ENGINEERING DEPARTMENT

Outcome #4: Maintain and Seek new grants for Traffic Signal / Intersection Improvements.

The City of Dubuque traffic engineering department has successfully received many grants in the last 15 years to assist with roadway improvements. In the last few years the engineering department has received grants for the following that will be constructed beginning in the Spring of 2018 through the Fall of 2018;

- NW Arterial at Pennsylvania westbound right turn lane improvement (planned for summer of 2019)
- Reconstruct the traffic signals at Asbury Road and Carter Road (planned for summer of 2019)
- Reconstruct the traffic signals at Asbury Road and Chaney Road (planned for summer of 2019).

Recently Constructed projects include

- University and Grandview Roundabout (constructed the summer of 2018)
- Right turn lane at JFK and NW Arterial - eastbound (constructed the summer of 2018)

Citizen Impact: This improved infrastructure will allow citizens to get through these intersections quicker and more safely. These grants often times pay for a majority of the project at minimal cost to the tax payer. These improvements also help cut vehicle emissions which is better for the environment and health of the city.

Outcome #5: Continued growth of traffic operation cameras and security cameras.

The City of Dubuque now has over 1,097 security cameras with over 550 of these on the public streets. These cameras record events for 30 days and are commonly used for the following;

- Observe traffic signal operations and allow engineers in the Traffic Operations Center to make changes to the signals remotely and view if the changes have the desired effect on traffic.
- Used during accidents to determine what happened before/during/after the accident along with assignment of fault.
- Used for investigations of criminal behavior.

Citizen Impact: These cameras help improve the traffic signal timings and operations which help keep the signals and other transportation systems at optimal efficiency which minimizes daily commute times. They are also relied upon by police during accident investigations and many citizens request video evidence of their accident to assist them with their claim. These security cameras also keep the citizens safer by assisting law enforcement.

Did you know?

The Traffic department for the City of Dubuque currently has over 62 miles of conduit installed and 48.4 miles of fiber. This fiber is also used for other City entities including police and fire, sanitary sewer flow metering, and wireless water meter program. This fiber is also the critical communications pathway for the over 1,000 cameras located throughout the city.

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Recommended Operating Revenue Budget - Department Total

55 - ENGINEERING

Fund	Account	Account Title	FY17 Actual Revenue	FY18 Actual Revenue	FY19 Adopted Budget	FY20 Recomm'd Budget
100	42170	MISC-LICENSES	1,989	3,381	1,700	3,381
100	42225	DUMPSTER PERMITS	6,115	2,960	7,000	2,960
100	42240	EXCAVATION PERMITS	21,802	22,363	14,000	22,363
620	42260	PERMIT, MISC	5,653	6,095	5,000	6,095
100	42305	SIDEWALK PERMIT	7,587	8,193	5,000	8,193
100	42315	SUBDIV. INSPECTION FEE 3%	40,421	139,318	40,421	100,000
42	LICENSES AND PERMITS	- Total	83,566	182,310	73,121	142,992
400	43110	INVESTMENT EARNINGS	4,356	0	0	0
620	43110	INVESTMENT EARNINGS	5,019	29,235	5,019	41,628
100	43230	LEASE, PROPERTY	138,301	155,937	171,751	135,138
100	43231	LEASE, RIVERFRONT	1,872,530	1,922,503	2,025,658	2,270,423
100	43233	SIDEWALK CAFE LEASES	800	1,050	1,000	800
100	43320	LEASE, WHARFAGE	150,345	164,152	117,000	123,000
100	43325	LEASE, OTHER	120	0	120	120
43	USE OF MONEY AND PROPERTY	- Total	2,171,471	2,272,877	2,320,548	2,571,109
400	44100	BAB SUBSIDY NON GRANT	1,274	0	0	0
620	44100	BAB SUBSIDY NON GRANT	14,106	0	14,106	0
620	44405	FEMA PUBLIC ASSISTANCE	0	2,152	0	0
44	INTERGOVERMENTAL	- Total	15,380	2,152	14,106	0
620	51215	LATE PAYMENT PENALTY	24,936	28,845	25,719	28,845
610	51245	SEWER CONNECTION CHARGES	71,960	2,539	0	2,539
620	51805	STORMWATER USER FEE	3,934,804	4,224,607	4,837,441	4,849,462
620	51820	STORMWATER HALF RATE	30,085	28,178	35,000	32,131
51	CHARGES FOR SERVICES	- Total	4,061,786	4,284,168	4,898,160	4,912,977
100	53102	PRIVATE PARTICIPANT	89	0	0	0
100	53403	IA DISTRICT COURT FINES	180	0	50	0
800	53530	SPECIALIZED SERVICES	2,387,281	1,683,777	1,716,829	1,619,636
100	53605	MISCELLANEOUS REVENUE	653	673	0	0
100	53610	INSURANCE CLAIMS	0	12,725	0	0
100	53615	DAMAGE CLAIMS	0	1,348	0	0
100	53620	REIMBURSEMENTS-GENERAL	4,218	10,504	4,350	6,150
620	53620	REIMBURSEMENTS-GENERAL	9,613	1,873	0	1,873
620	53630	SALES TAX COLLECTION	134,749	145,662	134,391	166,099
53	MISCELLANEOUS	- Total	2,536,783	1,856,563	1,855,620	1,793,758
100	54105	LAND SALES	8,067	12	0	0
100	54107	VEHICLE SALES	7,000	0	0	0
400	54210	GO BOND PROCEEDS	3,527,719	771,500	0	0
620	54210	GO BOND PROCEEDS	2,012,204	1,714,500	0	0
400	54220	BOND DISCOUNT	113,630	11,250	0	0
620	54220	BOND DISCOUNT	64,814	25,000	0	0
54	OTHER FINANCING SOURCES	- Total	5,733,434	2,522,262	0	0
400	59100	FR GENERAL	552,573	541,984	544,127	548,936
620	59102	FR DRA DISTRIBUTION	0	125,876	251,141	299,600
400	59240	FR DOWNTOWN TIF	361,632	340,766	343,800	334,350
400	59250	FR ROAD USE TAX	7,208	21,267	23,787	23,992
620	59255	FR SPECIAL ASSESSMENT	94	105	0	0
400	59300	FR STREET CONSTRUCTION	220,290	210,097	209,125	204,096
400	59340	FR SALES TAX INCREMENT	1,560,984	2,118,792	2,562,211	2,562,323
400	59350	FR SALES TAX CONSTRUCTION	35,601	19,209	19,000	18,748
620	59350	FR SALES TAX CONSTRUCTION	333,830	226,950	118,906	118,906
100	59610	FR WPC OPERATING	242,877	330,040	291,095	261,845
100	59620	FR STORMWATER OPERATING	77,373	76,041	68,174	72,400
100	59640	FR WATER UTILITY	0	20,184	52,397	56,741
59	TRANSFER IN AND INTERNAL	- Total	3,392,463	4,031,311	4,483,763	4,501,937
ENGINEERING		- Total	17,994,884	15,151,643	13,645,318	13,922,773

Recommended Operating Expenditure Budget - Department Total

55 - ENGINEERING

Fund	Account	Account Title	FY17 Actual Expense	FY18 Actual Expense	FY19 Adopted Budget	FY 20 Recomm'd Budget
100	61010	FULL-TIME EMPLOYEES	610,152	555,757	596,978	651,051
610	61010	FULL-TIME EMPLOYEES	70,578	59,279	75,619	89,908
620	61010	FULL-TIME EMPLOYEES	270,202	227,196	123,531	145,000
640	61010	FULL-TIME EMPLOYEES	740	21,471	14,054	14,374
800	61010	FULL-TIME EMPLOYEES	1,259,743	1,144,644	1,135,869	1,136,419
100	61020	PART-TIME EMPLOYEES	2,886	8,539	13,395	0
610	61020	PART-TIME EMPLOYEES	467	0	0	0
620	61020	PART-TIME EMPLOYEES	0	24,179	73,974	74,638
800	61020	PART-TIME EMPLOYEES	54,157	36,235	34,445	0
100	61030	SEASONAL EMPLOYEES	16,876	12,006	16,672	17,050
610	61030	SEASONAL EMPLOYEES	188	258	0	0
620	61030	SEASONAL EMPLOYEES	8,945	4,366	0	0
800	61030	SEASONAL EMPLOYEES	82,238	49,238	33,344	34,100
100	61050	OVERTIME PAY	5,923	14,443	5,250	18,390
610	61050	OVERTIME PAY	872	1,022	0	0
620	61050	OVERTIME PAY	6,031	6,325	0	0
640	61050	OVERTIME PAY	0	1,053	0	0
800	61050	OVERTIME PAY	49,112	27,942	54,250	54,250
100	61091	SICK LEAVE PAYOFF	13,417	7,769	819	11,977
100	61092	VACATION PAYOFF	226	9,300	0	0
620	61092	VACATION PAYOFF	0	7,579	0	0
100	61310	IPERS	52,430	51,936	59,691	63,567
610	61310	IPERS	6,439	5,418	7,139	8,489
620	61310	IPERS	21,821	23,121	18,647	20,735
640	61310	IPERS	66	2,016	1,327	1,357
800	61310	IPERS	131,252	111,330	118,748	115,622
100	61320	SOCIAL SECURITY	44,096	43,952	48,434	52,430
610	61320	SOCIAL SECURITY	5,063	4,268	5,786	6,879
620	61320	SOCIAL SECURITY	18,283	19,028	15,110	16,802
640	61320	SOCIAL SECURITY	52	1,580	1,075	1,100
800	61320	SOCIAL SECURITY	108,831	90,759	96,231	93,698
100	61410	HEALTH INSURANCE	(115,864)	(106,753)	108,972	91,778
610	61410	HEALTH INSURANCE	20,039	24,319	15,742	12,461
620	61410	HEALTH INSURANCE	86,332	56,286	25,758	20,585
640	61410	HEALTH INSURANCE	0	5,332	3,578	2,709
800	61410	HEALTH INSURANCE	281,105	222,761	206,682	154,196
100	61415	WORKMENS' COMPENSATION	17,488	42,143	14,337	14,773
610	61415	WORKMENS' COMPENSATION	2,916	9,455	2,110	2,451
620	61415	WORKMENS' COMPENSATION	3,061	26,788	5,451	5,725
640	61415	WORKMENS' COMPENSATION	0	0	0	456
800	61415	WORKMENS' COMPENSATION	56,288	0	35,879	30,533
100	61416	LIFE INSURANCE	392	418	450	496
610	61416	LIFE INSURANCE	73	51	65	71
620	61416	LIFE INSURANCE	200	172	140	117
640	61416	LIFE INSURANCE	0	20	12	14
800	61416	LIFE INSURANCE	1,112	867	1,204	818
620	61417	UNEMPLOYMENT INSURANCE	0	5,031	0	5,031
800	61417	UNEMPLOYMENT INSURANCE	435	0	0	0

Recommended Operating Expenditure Budget - Department Total

55 - ENGINEERING

Fund	Account	Account Title	FY17 Actual Expense	FY18 Actual Expense	FY19 Adopted Budget	FY 20 Recomm'd Budget
100	61640	SAFETY EQUIPMENT	647	327	250	250
100	61660	EMPLOYEE PHYSICALS	664	888	250	250
620	61660	EMPLOYEE PHYSICALS	116	495	0	0
800	61660	EMPLOYEE PHYSICALS	586	0	0	0
61 - WAGES AND BENEFITS			3,196,677	2,860,608	2,971,268	2,970,550
100	62010	OFFICE SUPPLIES	6,464	6,635	6,496	6,634
620	62010	OFFICE SUPPLIES	410	0	0	0
100	62011	UNIFORM PURCHASES	0	0	0	400
100	62030	POSTAGE AND SHIPPING	2,126	2,324	177	2,395
610	62030	POSTAGE AND SHIPPING	0	25	0	26
620	62030	POSTAGE AND SHIPPING	75	307	0	316
800	62030	POSTAGE AND SHIPPING	(52)	0	0	0
100	62034	REPAIR PARTS/SUPPLIES	35	244	0	244
620	62034	REPAIR PARTS/SUPPLIES	85	0	0	0
100	62050	OFFICE EQUIPMENT MAINT	0	0	800	1,740
100	62061	DP EQUIP. MAINT CONTRACTS	25,472	27,982	27,562	26,580
100	62090	PRINTING & BINDING	135	25	135	527
610	62090	PRINTING & BINDING	18	0	18	0
100	62110	COPYING/REPRODUCTION	5,527	5,823	5,527	6,231
610	62110	COPYING/REPRODUCTION	14	0	14	0
620	62110	COPYING/REPRODUCTION	244	356	0	381
800	62110	COPYING/REPRODUCTION	177	0	177	0
100	62130	LEGAL NOTICES & ADS	571	223	402	223
610	62130	LEGAL NOTICES & ADS	2,726	0	2,726	0
100	62170	SUBSCRIPTIONS-BOOKS-MAPS	3,069	4,563	3,676	4,068
250	62170	SUBSCRIPTIONS-BOOKS-MAPS	485	0	700	735
610	62170	SUBSCRIPTIONS-BOOKS-MAPS	0	86	210	221
620	62170	SUBSCRIPTIONS-BOOKS-MAPS	0	0	120	126
100	62190	DUES & MEMBERSHIPS	3,286	2,898	4,052	4,584
250	62190	DUES & MEMBERSHIPS	490	0	975	995
610	62190	DUES & MEMBERSHIPS	153	0	0	0
620	62190	DUES & MEMBERSHIPS	240	0	635	648
610	62204	REFUNDS	0	1,721	0	1,721
620	62204	REFUNDS	2,494	1,518	2,494	1,518
100	62206	PROPERTY INSURANCE	5,509	5,052	431	33
250	62206	PROPERTY INSURANCE	0	0	12,514	14,414
620	62206	PROPERTY INSURANCE	0	0	0	2,214
100	62208	GENERAL LIABILITY INSURAN	21,043	15,992	17,772	17,445
250	62208	GENERAL LIABILITY INSURAN	625	1,007	532	0
610	62208	GENERAL LIABILITY INSURAN	2,520	4,062	4,062	3,987
800	62208	GENERAL LIABILITY INSURAN	(163)	0	0	0
620	62210	SALES TAX	134,391	146,943	134,391	166,099
100	62211	PROPERTY TAX	82,186	86,580	98,500	87,645
100	62212	TECH/OTHER EQUIP INSURANC	0	251	750	264
100	62230	COURT COSTS & RECORD FEES	717	1,636	675	1,636
100	62310	TRAVEL-CONFERENCES	11,948	14,436	16,385	18,469
250	62310	TRAVEL-CONFERENCES	5,756	3,185	4,945	5,334
610	62310	TRAVEL-CONFERENCES	3,216	0	1,680	1,730

Recommended Operating Expenditure Budget - Department Total

55 - ENGINEERING

Fund	Account	Account Title	FY17 Actual Expense	FY18 Actual Expense	FY19 Adopted Budget	FY 20 Recomm'd Budget
620	62310	TRAVEL-CONFERENCES	13,542	3,953	5,585	5,993
100	62320	TRAVEL-CITY BUSINESS	735	188	625	644
610	62320	TRAVEL-CITY BUSINESS	189	0	0	0
620	62320	TRAVEL-CITY BUSINESS	1	295	120	124
100	62340	MILEAGE/LOCAL TRANSP	551	37	553	40
610	62340	MILEAGE/LOCAL TRANSP	3	0	0	0
620	62340	MILEAGE/LOCAL TRANSP	44	0	0	0
100	62360	EDUCATION & TRAINING	5,181	6,794	32,906	34,321
250	62360	EDUCATION & TRAINING	276	3,700	5,900	6,077
610	62360	EDUCATION & TRAINING	63	695	2,210	1,674
620	62360	EDUCATION & TRAINING	2,885	2,497	4,865	6,916
100	62411	UTILITY EXP-ELECTRICITY	2,284	1,432	1,485	1,920
620	62411	UTILITY EXP-ELECTRICITY	519	5,251	30,000	5,250
100	62415	UTILITY EXPENSE STORMWATR	2,440	2,579	2,778	4,428
100	62416	UTILITY EXP-WATER	0	52	0	120
620	62419	UTILITY EXP-ELEC ST LTNG	1,549	542	1,549	542
100	62421	TELEPHONE	12,392	12,266	11,784	12,265
250	62421	TELEPHONE	1,477	1,295	1,540	1,920
610	62421	TELEPHONE	2,139	1,706	1,540	1,706
620	62421	TELEPHONE	2,753	1,970	1,980	1,970
100	62424	RADIO/PAGER FEE	1,928	1,967	2,136	2,633
100	62431	PROPERTY MAINTENANCE	326	157	650	1,000
250	62431	PROPERTY MAINTENANCE	0	1,367	0	0
610	62431	PROPERTY MAINTENANCE	0	1,367	0	0
620	62431	PROPERTY MAINTENANCE	4,224	14,984	0	15,590
100	62436	RENTAL OF SPACE	9,648	9,354	14,608	14,314
620	62436	RENTAL OF SPACE	80	480	480	480
100	62511	FUEL, MOTOR VEHICLE	8,678	10,710	8,852	10,710
610	62511	FUEL, MOTOR VEHICLE	0	689	0	689
620	62511	FUEL, MOTOR VEHICLE	3,670	494	0	494
100	62521	MOTOR VEHICLE MAINT.	9,923	6,994	9,750	7,133
610	62521	MOTOR VEHICLE MAINT.	0	337	0	344
620	62521	MOTOR VEHICLE MAINT.	10,729	234	0	73
100	62522	VEHICLE MAINT., ACCIDENT	0	4,602	0	4,694
100	62528	MOTOR VEH. MAINT. OUTSOUR	1,307	1,358	407	1,386
100	62611	MACH/EQUIP MAINTENANCE	773	254	1,000	2,840
250	62611	MACH/EQUIP MAINTENANCE	23,369	22,000	27,335	22,000
610	62611	MACH/EQUIP MAINTENANCE	0	359	11,179	12,480
620	62611	MACH/EQUIP MAINTENANCE	0	15,575	0	15,575
100	62614	EQUIP MAINT CONTRACT	0	0	0	5,309
100	62627	CAMERA MAINTENANCE	0	401	0	23,900
250	62627	CAMERA MAINTENANCE	0	0	0	36,500
620	62627	CAMERA MAINTENANCE	0	3,192	0	3,192
100	62663	SOFTWARE LICENSE EXP	22,410	23,497	25,402	31,904
250	62663	SOFTWARE LICENSE EXP	23,519	37,235	79,904	116,522
610	62663	SOFTWARE LICENSE EXP	3,383	3,663	9,385	4,795
620	62663	SOFTWARE LICENSE EXP	7,590	20,169	4,823	8,973
100	62664	LICENSE/PERMIT FEES	687	650	687	650

Recommended Operating Expenditure Budget - Department Total

55 - ENGINEERING

Fund	Account	Account Title	FY17 Actual Expense	FY18 Actual Expense	FY19 Adopted Budget	FY 20 Recomm'd Budget
100	62667	DATA SERVICES	1,947	1,912	1,946	5,520
250	62667	DATA SERVICES	1,438	5,033	4,763	7,920
610	62667	DATA SERVICES	1,761	341	480	2,400
620	62667	DATA SERVICES	1,381	1,081	1,080	2,400
620	62668	PROGRAM EQUIP/SUPPLIES	0	2,286	0	0
100	62683	FIELD OPERATIONS SUPPLIES	3,508	1,745	3,508	3,527
250	62683	FIELD OPERATIONS SUPPLIES	0	31	0	31
620	62683	FIELD OPERATIONS SUPPLIES	320	1,097	0	1,097
620	62692	LANDFILL FEES	0	8,452	0	0
100	62696	OUTSIDE COLLECTOR EXPENSE	24	8	20	8
620	62696	OUTSIDE COLLECTOR EXPENSE	3,359	2,583	3,359	2,583
100	62712	CONSULTING ENGINEERS	10,366	0	0	0
620	62712	CONSULTING ENGINEERS	125,169	5,406	0	5,406
100	62713	LEGAL SERVICES	0	816	500	500
400	62713	LEGAL SERVICES	7,368	4,002	0	0
610	62713	LEGAL SERVICES	0	995	500	500
620	62713	LEGAL SERVICES	4,202	8,924	500	500
100	62716	CONSULTANT SERVICES	0	9,335	5,000	6,615
250	62716	CONSULTANT SERVICES	225	0	0	0
620	62716	CONSULTANT SERVICES	31,619	15,067	112,500	65,436
400	62721	FINANCIAL CONSULTANT	6,368	5,276	0	0
620	62721	FINANCIAL CONSULTANT	3,632	11,724	0	0
100	62726	AUDIT SERVICES	3,200	0	3,200	0
620	62726	AUDIT SERVICES	7,800	2,200	2,750	2,200
100	62731	MISCELLANEOUS SERVICES	2,608	1,206	0	0
400	62731	MISCELLANEOUS SERVICES	16,914	7,604	0	0
620	62731	MISCELLANEOUS SERVICES	9,648	16,898	0	0
100	62734	SPEAKERS/PROGRAMS	0	0	0	1,500
620	62734	SPEAKERS/PROGRAMS	450	0	0	0
610	62746	ONE CALL OPERATION	2,208	2,217	2,208	2,217
620	62746	ONE CALL OPERATION	2,208	2,217	2,208	2,217
100	62756	EMPLOYEE RECOGNITION	0	73	500	500
100	62757	INSPECTION REIMBURSEMENT	15,437	33,209	72,000	36,000
100	62761	PAY TO OTHER AGENCY	10,000	15,000	66,143	20,000
620	62761	PAY TO OTHER AGENCY	44,532	45,646	44,532	47,957
610	62765	GRANTS	0	0	10,000	10,000
620	62765	GRANTS	335,830	358,224	375,047	428,506
620	62767	ENVIRON. TESTING/MON.	77	1,215	0	3,715
620	62781	LAWN CARE SERVICES	8,060	9,425	0	15,000
100	62811	ENG. DIVISION SERVICES	19,499	0	21,000	21,000
620	62811	ENG. DIVISION SERVICES	141,889	0	0	0
62 - SUPPLIES AND SERVICES			1,326,307	1,142,461	1,385,295	1,504,928
620	62,724	BOND PAYING AGENT FEE	0	692	0	0
627 - CONTRACTUAL SERVICES			0	692	0	0
100	63,311	ADMIN. OVERHEAD	(9,338)	0	0	0
63 - ADMIN/OVERHEAD/STORES GAR			(9,338)	0	0	0
100	71110	MISC. OFFICE EQUIPMENT	1,630	0	0	0
100	71112	TYPEWRITERS	0	331	200	200

Recommended Operating Expenditure Budget - Department Total

55 - ENGINEERING

Fund	Account	Account Title	FY17 Actual Expense	FY18 Actual Expense	FY19 Adopted Budget	FY 20 Recomm'd Budget
250	71112	TYPEWRITERS	0	106	0	0
100	71118	PROJECTOR/CAMERA	429	0	200	0
250	71118	PROJECTOR/CAMERA	28,645	11,804	17,200	19,200
100	71120	PERIPHERALS, COMPUTER	0	40	0	4,200
250	71120	PERIPHERALS, COMPUTER	9,670	0	10,512	0
610	71120	PERIPHERALS, COMPUTER	0	0	0	3,150
620	71120	PERIPHERALS, COMPUTER	0	0	0	1,050
250	71123	SOFTWARE	0	0	10,000	0
100	71124	COMPUTER	0	0	0	2,400
250	71124	COMPUTER	0	0	0	6,000
610	71124	COMPUTER	0	0	0	2,400
620	71124	COMPUTER	0	0	0	2,400
250	71125	SERVERS	114,420	105,437	151,500	85,500
250	71127	UPS SYSTEM	0	140	0	3,000
100	71129	SCANNER	0	0	0	15,000
100	71211	DESKS/CHAIRS	1,615	783	6,250	2,000
100	71215	STORAGE CABINETS	0	0	0	8,600
100	71223	CARPET	0	0	4,250	0
100	71225	SHELVING	2	0	0	0
610	71225	SHELVING	225	0	0	0
100	71310	AUTO/JEEP REPLACEMENT	41,604	0	38,000	31,500
250	71405	SWITCH	0	0	0	45,000
250	71406	BATTERY BACKUP SYSTEM	0	0	0	25,000
250	71407	CAMERA BATTERIES	0	0	0	12,000
250	71408	AXIS CAMERAS	0	0	0	74,400
250	71409	ITERIS CAMERAS	0	0	0	9,600
250	71410	SHOP EQUIPMENT	0	589	0	0
100	71411	TRAFFIC CONTROL EQUIPMENT	1,571	13,625	4,300	0
250	71411	TRAFFIC CONTROL EQUIPMENT	91,615	48,724	104,100	4,500
100	72410	PAGER/RADIO EQUIPMENT	108	0	7,500	4,500
100	71412	SURVEY EQUIPMENT	599	35,251	6,800	12,000
100	71413	LABORATORY EQUIPMENT	8,000	133	1,000	4,000
610	71511	PUMPS	0	11,438	0	6,000
100	71550	MISCELLANEOUS EQUIPMENT	0	148	0	0
610	72113	OTHER SAFETY EQUIPMENT	3,275	2,032	900	4,500
620	72113	OTHER SAFETY EQUIPMENT	0	0	0	2,500
100	72410	PAGER/RADIO EQUIPMENT	0	0	4,500	0
610	72410	PAGER/RADIO EQUIPMENT	0	0	4,500	0
250	72414	TELEVISION	0	4,998	5,000	2,500
620	72414	TELEVISION	548	0	0	0
610	72415	ELECTRONIC DATA COLLECTOR	0	0	650	0
620	72415	ELECTRONIC DATA COLLECTOR	0	0	0	1,100
100	72417	CAMERA RELATED EQUIPMENT	0	303	0	0
100	72418	TELEPHONE RELATED	4,280	1,169	3,870	792
250	72418	TELEPHONE RELATED	572	389	435	346
610	72418	TELEPHONE RELATED	841	100	750	100
620	72418	TELEPHONE RELATED	1,179	379	750	346
610	72510	FLOW TEST EQUIPMENT	0	2,459	0	0

Recommended Operating Expenditure Budget - Department Total

55 - ENGINEERING

Fund	Account	Account Title	FY17 Actual Expense	FY18 Actual Expense	FY19 Adopted Budget	FY 20 Recomm'd Budget
620	72510	FLOW TEST EQUIPMENT	0	0	900	2,000
100	72,515	TEST EQUIPMENT, OTHER	52	0	1,600	320
71 - EQUIPMENT			310,775	240,378	378,167	393,604
100	73210	CONST CONTRACT-BLDG	0	0	6,800	6,800
620	73210	CONST CONTRACT-BLDG	112	0	0	0
610	73211	CONST.CONTR-NOT BLDG	43,085	52,071	75,000	100,000
620	73211	CONST.CONTR-NOT BLDG	59,240	101,271	50,000	65,790
73 - CIP EXPENDITURES			102,437	153,342	131,800	172,590
400	74,111	PRINCIPAL PAYMENT	4,530,482	2,308,537	2,112,621	2,149,239
620	74,111	PRINCIPAL PAYMENT	3,307,354	2,974,050	1,321,209	1,362,242
400	74,112	INTEREST PAYMENT	1,824,137	1,709,135	1,589,429	1,543,206
620	74,112	INTEREST PAYMENT	665,002	620,431	675,872	799,017
74 - DEBT SERVICE			10,326,975	7,612,152	5,699,131	5,853,704
620	91,100	TO GENERAL	499,607	470,674	469,385	527,544
620	91,720	TO STORM SEWER CONST	0	0	1,525,000	1,210,000
91 - TRANSFER TO			499,607	470,674	1,994,385	1,737,544
55 - ENGINEERING TOTAL			15,753,439	12,480,308	12,560,046	12,632,920

Recommended Expenditure Budget Report by Activity & Funding Source

55 - ENGINEERING

ENGINEERING ADMIN. - 55100

FUNDING SOURCE: ENGINEERING SERVICE

Account	FY18 Actual Expense	FY19 Adopted Budget	FY20 Recomm'd Budget
CIP EXPENDITURES	—	6,800	6,800
EQUIPMENT	895	1,950	12,546
SUPPLIES AND SERVICES	169,062	239,162	92,325
WAGES AND BENEFITS	1,654,858	380,812	388,030
ENGINEERING ADMIN.	1,824,816	628,724	499,701
LEASES	- 55150		

FUNDING SOURCE: GENERAL

Account	FY18 Actual Expense	FY19 Adopted Budget	FY20 Recomm'd Budget
SUPPLIES AND SERVICES	2,242	2,135	94,596
LEASES	2,242	2,135	94,596
PROJECT ENGINEERING	- 55400		

FUNDING SOURCE: DEBT SERVICE

Account	FY18 Actual Expense	FY19 Adopted Budget	FY20 Recomm'd Budget
ADMIN/OVERHEAD/STORES GAR	—	—	—
CIP EXPENDITURES	52,071	75,000	100,000
DEBT SERVICE	1,898,880	1,139,839	1,130,122
EQUIPMENT	238,838	370,007	367,162
SUPPLIES AND SERVICES	219,937	307,024	418,432
WAGES AND BENEFITS	770,461	1,450,778	1,383,810
PROJECT ENGINEERING	3,180,187	3,342,648	3,399,526
ASBURY PLAZA PHASE II	- 55405		

FUNDING SOURCE: GENERAL

Account	FY18 Actual Expense	FY19 Adopted Budget	FY20 Recomm'd Budget
SUPPLIES AND SERVICES	35,685	93,000	57,521
WAGES AND BENEFITS	19,729	27,658	24,701
ASBURY PLAZA PHASE II	55,414	120,658	82,222
TIMBER-HYRST PHASE I	- 55418		

FUNDING SOURCE: GENERAL

Account	FY18 Actual Expense	FY19 Adopted Budget	FY20 Recomm'd Budget
WAGES AND BENEFITS	—	—	—
TIMBER-HYRST PHASE I	—	—	—
TIMBER-HYRST PHASE II	- 55419		
SANITARY SEWER INT SERV	- 55610		

FUNDING SOURCE: ENGINEERING SERVICE

Account	FY18 Actual Expense	FY19 Adopted Budget	FY20 Recomm'd Budget
WAGES AND BENEFITS	—	281,555	277,090
SANITARY SEWER INT SERV	—	281,555	277,090

Recommended Expenditure Budget Report by Activity & Funding Source

55 - ENGINEERING

STORMWATER UTILITY O&M - 55620

FUNDING SOURCE: ENGINEERING SERVICE

Account	FY18 Actual Expense	FY19 Adopted Budget	FY20 Recomm'd Budget
CIP EXPENDITURES	1,337	50,000	50,000
CONTRACTUAL SERVICES	692	—	—
DEBT SERVICE	3,594,481	1,997,081	2,161,259
EQUIPMENT	379	1,650	9,396
SUPPLIES AND SERVICES	622,760	658,052	732,612
TRANSFER TO	470,674	1,994,385	1,737,544
WAGES AND BENEFITS	164,496	592,173	584,326
STORMWATER UTILITY O&M	4,854,819	5,293,341	5,275,137

TRAFFIC ENGINEERING - 55700

FUNDING SOURCE: ENGINEERING SERVICE

Account	FY18 Actual Expense	FY19 Adopted Budget	FY20 Recomm'd Budget
EQUIPMENT	266	4,560	4,500
SUPPLIES AND SERVICES	4,333	14,942	28,563
WAGES AND BENEFITS	14,995	67,662	125,842
TRAFFIC ENGINEERING	19,593	87,164	158,905

NPDES DISCHARGE ELIM SYST- 55750

FUNDING SOURCE: STORM WATER OPERATION

Account	FY18 Actual Expense	FY19 Adopted Budget	FY20 Recomm'd Budget
EQUIPMENT	—	—	—
SUPPLIES AND SERVICES	2,484	—	793
WAGES AND BENEFITS	8,009	4,928	5,032
NPDES DISCHARGE ELIM SYST	10,493	4,928	5,825

NPDES EROSION & SED CONTR- 55751

FUNDING SOURCE: STORM WATER OPERATION

Account	FY18 Actual Expense	FY19 Adopted Budget	FY20 Recomm'd Budget
SUPPLIES AND SERVICES	5,800	—	1,892
WAGES AND BENEFITS	35,555	36,367	37,195
NPDES EROSION & SED CONTR	41,355	36,367	39,087

NPDES DISCHARGE DETECTION- 55752

FUNDING SOURCE: STORM WATER OPERATION

Account	FY18 Actual Expense	FY19 Adopted Budget	FY20 Recomm'd Budget
SUPPLIES AND SERVICES	2,075	—	548
WAGES AND BENEFITS	8,505	1,819	1,860
NPDES DISCHARGE DETECTION	10,580	1,819	2,408

NPDES MUNICIPAL OPERATION- 55753

FUNDING SOURCE: STORM WATER OPERATION

Account	FY18 Actual Expense	FY19 Adopted Budget	FY20 Recomm'd Budget
CIP EXPENDITURES	790	0	790

Recommended Expenditure Budget Report by Activity & Funding Source

55 - ENGINEERING

SUPPLIES AND SERVICES	—	—	—
WAGES AND BENEFITS	9,155	5,698	5,804
NPDES MUNICIPAL OPERATION	9,945	5,698	6,594
NPDES PUBLIC EDUCATION - 55754			

FUNDING SOURCE: STORM WATER OPERATION

Account	FY18 Actual Expense	FY19 Adopted Budget	FY20 Recomm'd Budget
SUPPLIES AND SERVICES	3,260	—	1,500
WAGES AND BENEFITS	9,505	4,740	5,834
NPDES PUBLIC EDUCATION	12,766	4,740	7,334
NPDES PUBLIC PARTICIPATIO- 55755			

FUNDING SOURCE: STORM WATER OPERATION

Account	FY18 Actual Expense	FY19 Adopted Budget	FY20 Recomm'd Budget
SUPPLIES AND SERVICES	4,065	—	5,000
WAGES AND BENEFITS	14,068	1,896	1,862
NPDES PUBLIC PARTICIPATIO	18,132	1,896	6,862
NPDES POST CONSTRUCTION - 55756			

FUNDING SOURCE: STORM WATER OPERATION

Account	FY18 Actual Expense	FY19 Adopted Budget	FY20 Recomm'd Budget
SUPPLIES AND SERVICES	7,759	—	5,032
WAGES AND BENEFITS	43,813	28,566	34,341
NPDES POST CONSTRUCTION	51,572	28,566	39,373
SALES TAX INCR DEBT - 55800			

FUNDING SOURCE: DEBT SERVICE

Account	FY18 Actual Expense	FY19 Adopted Budget	FY20 Recomm'd Budget
DEBT SERVICE	2,118,792	2,562,211	2,562,323
SALES TAX INCR DEBT	2,118,792	2,562,211	2,562,323
STORMWATER I & I PREVENT - 55900			

FUNDING SOURCE: STORM WATER OPERATION

Account	FY18 Actual Expense	FY19 Adopted Budget	FY20 Recomm'd Budget
CIP EXPENDITURES	2,299	—	—
SUPPLIES AND SERVICES	8,273	5,480	10,693
WAGES AND BENEFITS	101,000	86,616	94,823
STORMWATER I & I PREVENT	111,572	92,096	105,516
STORMWATER DITCH REMEDIAT- 55910			

FUNDING SOURCE: STORM WATER OPERATION

Account	FY18 Actual Expense	FY19 Adopted Budget	FY20 Recomm'd Budget
CIP EXPENDITURES	—	—	—
SUPPLIES AND SERVICES	11,602	25,000	5,000
WAGES AND BENEFITS	637	0	0

Recommended Expenditure Budget Report by Activity & Funding Source

55 - ENGINEERING

STORMWATER DITCH REMEDIAT	12,239	25,000	5,000
STREAMBANK REHAB ASSIST - 55911			

FUNDING SOURCE: STORM WATER OPERATION

Account	FY18 Actual Expense	FY19 Adopted Budget	FY20 Recomm'd Budget
CIP EXPENDITURES	0	0	0
SUPPLIES AND SERVICES	3,402	5,000	5,000
STREAMBANK REHAB ASSIST	3,402	5,000	5,000
DETENTION BASIN MAINTENAN- 55920			

FUNDING SOURCE: STORM WATER OPERATION

Account	FY18 Actual Expense	FY19 Adopted Budget	FY20 Recomm'd Budget
CIP EXPENDITURES	96,845	—	15,000
SUPPLIES AND SERVICES	35,675	29,000	41,251
WAGES AND BENEFITS	5,821	—	—
DETENTION BASIN MAINTENAN			
	138,341	29,000	56,251
STORM SEWER INSP & CLEAN - 55930			

FUNDING SOURCE: STORM WATER OPERATION

Account	FY18 Actual Expense	FY19 Adopted Budget	FY20 Recomm'd Budget
SUPPLIES AND SERVICES	4,048	6,500	4,170
STORM SEWER INSP & CLEAN	4,048	6,500	4,170
ENGINEERING TOTAL \$	12,480,307.61 \$	12,560,046.00 \$	12,632,920.00

CITY OF DUBUQUE, IOWA
DEPARTMENT DETAIL - PERSONNEL COMPLEMENT

55 ENGINEERING DEPARTMENT

FD	JC	WP-GR	JOB CLASS	FY 2018		FY 2019		FY 2020	
				FTE	BUDGET	FTE	BUDGET	FTE	BUDGET
61010 Full Time Employee Expense									
100	9425	GE-44	CITY ENGINEER	0.25	\$ 33,922	0.25	\$ 34,431	0.30	\$ 42,261
610	9425	GE-44	CITY ENGINEER	0.10	\$ 13,569	0.10	\$ 13,772	0.15	\$ 21,131
620	9425	GE-44	CITY ENGINEER	0.10	\$ 13,569	0.10	\$ 13,772	0.15	\$ 21,131
800	9425	GE-44	CITY ENGINEER	0.55	\$ 74,628	0.55	\$ 75,748	0.40	\$ 56,349
100	3125	GE-40	ASSISTANT CITY ENGINEER	0.25	\$ 26,846	0.25	\$ 27,375	0.30	\$ 33,764
800	3125	GE-40	ASSISTANT CITY ENGINEER	0.75	\$ 80,538	0.75	\$ 82,126	0.70	\$ 78,782
100	4060	GE-40	PROJECT MANAGER	0.40	\$ 42,278	0.40	\$ 43,170	0.40	\$ 44,153
610	4060	GE-40	PROJECT MANAGER	0.00	\$ —	0.10	\$ 10,793	0.10	\$ 11,038
800	4060	GE-40	PROJECT MANAGER	0.60	\$ 63,416	0.50	\$ 53,962	0.50	\$ 55,190
620	5525	GE-38	CIVIL ENGINEER II	0.20	\$ 19,214	0.15	\$ 14,604	0.20	\$ 19,951
610	5525	GE-38	CIVIL ENGINEER II	0.00	\$ —	0.10	\$ 9,799	0.10	\$ 10,024
100	5525	GE-38	CIVIL ENGINEER II	0.95	\$ 87,482	0.95	\$ 89,134	0.95	\$ 91,171
800	5525	GE-38	CIVIL ENGINEER II	2.85	\$ 262,763	2.80	\$ 262,024	2.75	\$ 263,001
610	2230	GE-35	ENVIRONMENTAL ENGINEER	0.00	\$ —	0.00	\$ —	0.00	\$ —
620	2230	GE-35	ENVIRONMENTAL ENGINEER	0.00	\$ —	0.00	\$ —	0.00	\$ —
800	2230	GE-35	ENVIRONMENTAL ENGINEER	0.00	\$ —	0.00	\$ —	0.00	\$ —
100	5700	GE-36	SURVEYOR	0.80	\$ 67,348	0.80	\$ 68,446	0.80	\$ 70,622
800	5700	GE-36	SURVEYOR	0.20	\$ 16,837	0.20	\$ 17,112	0.20	\$ 17,656
100	5550	GE-33	TRAFFIC ENGINEERING ASSISTANT	0.87	\$ —	0.87	\$ 18,807	0.00	\$ —
800	5550	GE-33	TRAFFIC ENGINEERING ASSISTANT	0.13	\$ —	0.13	\$ 2,810	0.00	\$ —
100	GE-35	TRAFFIC ENGINEER		0.60	\$ 48,316	0.60	\$ 49,032	1.47	\$ 108,299
800	GE-35	TRAFFIC ENGINEER		0.40	\$ 32,211	0.40	\$ 32,689	0.53	\$ 42,120
100	5575	GE-33	SURVEY PARTY CHIEF	0.15	\$ 11,165	0.15	\$ 11,354	0.15	\$ 11,611
800	5575	GE-33	SURVEY PARTY CHIEF	0.85	\$ 63,266	0.85	\$ 64,337	0.85	\$ 65,795
100	2700	GE-31	ENGINEERING ASSISTANT II	1.00	\$ 67,547	1.00	\$ 68,555	0.10	\$ 6,999
620	2700	GE-31	ENGINEERING ASSISTANT II	0.10	\$ 6,697	0.10	\$ 6,796	0.10	\$ 6,999
800	2700	GE-31	ENGINEERING ASSISTANT II	0.90	\$ 60,333	0.90	\$ 61,236	0.80	\$ 55,990
100	2700	GE-31	ENGINEERING TECHNICIAN	1.70	\$ 112,203	1.90	\$ 127,219	1.90	\$ 116,196
610	2700	GE-31	ENGINEERING TECHNICIAN	0.10	\$ 6,504	0.05	\$ 3,301	0.10	\$ 6,784
620	2700	GE-31	ENGINEERING TECHNICIAN	1.00	\$ 65,647	0.95	\$ 62,449	1.00	\$ 68,356
800	2700	GE-31	ENGINEERING TECHNICIAN	6.26	\$ 408,442	6.10	\$ 405,100	6.00	\$ 394,773
100	2725	GE-30	SURVEY TECHNICIAN	0.15	\$ 9,423	0.15	\$ 9,645	0.15	\$ 9,881
800	2725	GE-30	SURVEY TECHNICIAN	0.85	\$ 53,402	0.85	\$ 54,637	0.85	\$ 55,992
100	4870	GE-28	UTILITY LOCATOR	0.00	\$ —	0.25	\$ 14,054	0.25	\$ 14,374
610	4870	GE-28	UTILITY LOCATOR	0.34	\$ 18,826	0.25	\$ 14,054	0.25	\$ 14,374
620	4870	GE-28	UTILITY LOCATOR	0.34	\$ 18,826	0.25	\$ 14,054	0.25	\$ 14,374
640	4870	GE-28	UTILITY LOCATOR	0.00	\$ —	0.25	\$ 14,054	0.25	\$ 14,374
800	4870	GE-28	UTILITY LOCATOR	0.32	\$ 17,718	0.00	\$ —	0.00	\$ —
610	GE-26	I&I INSPECTOR		0.00	\$ —	0.00	\$ —	0.00	\$ —
620	GE-26	I&I INSPECTOR		0.00	\$ —	0.00	\$ —	0.00	\$ —
800	GE-26	I&I INSPECTOR		0.00	\$ —	0.00	\$ —	0.00	\$ —
100	225	GE-25	SECRETARY	0.25	\$ 11,796	0.25	\$ 12,044	0.25	\$ 12,368
610	225	GE-25	SECRETARY	0.25	\$ 11,796	0.25	\$ 12,044	0.25	\$ 12,368
620	225	GE-25	SECRETARY	0.25	\$ 11,796	0.00	\$ —	0.00	\$ —
800	225	GE-25	SECRETARY	0.25	\$ 11,796	0.50	\$ 24,088	0.50	\$ 24,736
100	1000	GE-25	CONFIDENTIAL ACCOUNT CLERK	0.50	\$ 22,138	0.50	\$ 23,712	0.90	\$ 40,758
610	1000	GE-25	CONFIDENTIAL ACCOUNT CLERK	0.25	\$ 11,069	0.25	\$ 11,856	0.30	\$ 14,189
620	1000	GE-25	CONFIDENTIAL ACCOUNT CLERK	0.25	\$ 11,069	0.25	\$ 11,856	0.30	\$ 14,189
800	1000	GE-25	CONFIDENTIAL ACCOUNT CLERK	0.00	\$ —	0.00	\$ —	0.50	\$ 20,636
TOTAL FULL TIME EMPLOYEES				26.06	\$ 1,894,396	26.00	\$ 1,946,051	27.00	\$ 2,036,752

CITY OF DUBUQUE, IOWA
DEPARTMENT DETAIL - PERSONNEL COMPLEMENT

55 ENGINEERING DEPARTMENT

FD	JC	WP-GR	JOB CLASS	FY 2018		FY 2019		FY 2020	
				FTE	BUDGET	FTE	BUDGET	FTE	BUDGET
61020 Part-Time Employee Expense									
620		GE-26	I&I INSPECTOR	0.73	\$ 35,749	1.48	\$ 73,974	1.46	\$ 74,638
100	1000	GE-25	CONFIDENTIAL ACCOUNT CLERK	0.35	\$ 13,195	0.35	\$ 13,395	0.00	\$ —
800	1000	GE-25	CONFIDENTIAL ACCOUNT CLERK	0.90	\$ 33,922	0.90	\$ 34,445	0.00	\$ —
TOTAL PART TIME EMPLOYEES				1.98	\$ 82,866	2.73	\$ 121,814	1.46	\$ 74,638
61030 Seasonal Employee Expense									
100	5325	NA-34	ENGINEERING AIDE-SEASONAL	0.25	\$ 8,211	0.50	\$ 16,672	0.50	\$ 17,050
800	5325	NA-46	ENGINEERING ASSIST-SEASONAL	0.00	\$ —	0.00	\$ —	0.00	\$ —
800	5325	NA-34	ENGINEERING AIDE-SEASONAL	1.00	\$ 32,844	1.00	\$ 33,344	1.00	\$ 34,100
TOTAL SEASONAL EMPLOYEES				1.25	\$ 41,055	1.50	\$ 50,016	1.50	\$ 51,150
TOTAL ENGINEERING				29.29	\$ 2,018,317	30.23	\$ 2,117,881	29.96	\$ 2,162,540

CITY OF DUBUQUE, IOWA
ACTIVITY PERSONNEL COMPLEMENT SUMMARY

ACCT	FD	JC	WP-GR	POSITION CLASS	FY 2018		FY 2019		FY 2020	
					FTE	BUDGET	FTE	BUDGET	FTE	BUDGET
Engineering Administration-FT General Fund										
10055100	61010	100	225	GE-25	SECRETARY		0.25	\$ 11,796	0.25	\$ 12,044
					CONFIDENTIAL ACCOUNT CLERK		0.25	\$ 11,069	0.25	\$ 11,856
10055100	61010	100	1000	GE-25	ASSISTANT CITY ENGINEER		0.25	\$ 26,846	0.25	\$ 27,375
10055100	61010	100	3125	GE-40	PROJECT MANAGER		0.40	\$ 42,278	0.40	\$ 43,170
10055100	61010	100	4060	GE-40	CITY ENGINEER		0.25	\$ 33,922	0.25	\$ 34,431
						Total	1.40	\$ 125,911	1.40	\$ 128,876
							1.90	\$ 161,179		
Engineering Administration-PT General Fund										
10055100	61020	100	1000	GE-25	CONFIDENTIAL ACCOUNT CLERK		0.35	\$ 13,195	0.35	\$ 13,395
						Total	0.35	\$ 13,195	0.35	\$ 13,395
Engineering Administration-Seasonal General Fund										
10055100	61030	100		NA-34	ENGINEERING AIDE		0.00	\$ —	0.00	\$ —
						Total	0.00	\$ —	0.00	\$ —
							0.25	\$ 8,525	0.25	\$ 8,525
Engineering Administration-FT Service Fund										
80055100	61010	800	1000	GE-25	CONFIDENTIAL ACCOUNT CLERK		0.00	\$ —	0.00	\$ —
80055100	61010	800	3125	GE-38	ASSISTANT CITY ENGINEER		0.75	\$ 80,538	0.75	\$ 82,126
80055100	61010	800	4060	GE-40	PROJECT MANAGER		0.10	\$ 10,570	0.10	\$ 10,793
80055100	61010	800	225	GE-25	SECRETARY		0.25	\$ 11,796	0.25	\$ 12,044
80055100	61010	800	9425	GE-44	CITY ENGINEER		0.25	\$ 33,922	0.25	\$ 34,431
						Total	1.35	\$ 136,826	1.35	\$ 139,394
							1.25	\$ 125,383	0.15	\$ 21,131
Engineering Administration-PT Service Fund										
80055100	61020	800	1000	GE-25	CONFIDENTIAL ACCOUNT CLERK		0.00	\$ —	0.00	\$ —
						Total	0.00	\$ —	0.00	\$ —
							0.00	\$ —	0.00	\$ —
Project Engineering-FT General Fund										
10055400	61010	100	2700	GE-31	ENGINEERING ASSISTANT II		1.00	\$ 67,547	1.00	\$ 68,555
10055400	61010	100		GE-31	ROW TECHNICIAN		0.00	\$ —	0.00	\$ —
10055400	61010	100	2220	GE-31	ENGINEERING TECHNICIAN		1.60	\$ 105,545	1.60	\$ 107,277
10055400	61010	100	2725	GE-30	SURVEY TECHNICIAN		0.15	\$ 9,423	0.15	\$ 9,645
10055400	61010	100	5575	GE-33	SURVEY PARTY CHIEF		0.15	\$ 11,165	0.15	\$ 11,354
10055400	61010	100	4710	GE-35	TRAFFIC ENGINEER		0.60	\$ 48,316	0.60	\$ 49,032
10055400	61010	100	5525	GE-38	CIVIL ENGINEER II		0.95	\$ 87,482	0.95	\$ 89,134
10055400	61010	100	5700	GE-36	SURVEYOR		0.80	\$ 67,348	0.80	\$ 68,446
						Total	5.25	\$ 396,826	5.25	\$ 403,443
							5.25	\$ 387,469	0.80	\$ 70,622
Project Engineering-Seasonal General Fund										
10055400	61030	100	5325	NA-34	ENGINEERING AIDE-SEASONAL		0.25	\$ 8,211	0.50	\$ 16,672
						Total	0.25	\$ 8,211	0.50	\$ 16,672
							0.25	\$ 8,525	0.30	\$ 17,752
Project Engineering Subdivision Inspection-FT General Fund										
10055405	61010	100	2220	GE-31	ENGINEERING TECHNICIAN		0.10	\$ 6,658	0.30	\$ 19,942
						Total	0.10	\$ 6,658	0.30	\$ 19,942
							0.30	\$ 17,752	0.30	\$ 17,752
Project Engineering-FT Service Fund										
80055400	61010	800	2710	GE-26	I&I INSPECTOR		0.00	\$ —	0.00	\$ —
80055400	61010	800	4870	GE-28	UTILITY LOCATOR		0.32	\$ 17,718	0.00	\$ —
80055400	61010	800	2700	GE-31	ENGINEERING ASSISTANT II		0.50	\$ 33,547	0.50	\$ 34,049
80055400	61010	800	2220	GE-31	ENGINEERING TECHNICIAN		3.00	\$ 196,870	2.90	\$ 193,636
80055400	61010	800	2725	GE-30	SURVEY TECHNICIAN		0.30	\$ 18,848	0.30	\$ 19,272
80055400	61010	800	5575	GE-33	SURVEY PARTY CHIEF		0.30	\$ 22,329	0.30	\$ 22,707
80055400	61010	800	5525	GE-38	CIVIL ENGINEER II		1.55	\$ 137,630	1.55	\$ 139,913
80055400	61010	800	4710	GE-35	TRAFFIC ENGINEER		0.40	\$ 32,211	0.40	\$ 32,689
80055400	61010	800	5700	GE-36	SURVEYOR		0.20	\$ 16,837	0.20	\$ 17,112
							0.20	\$ 17,656	0.20	\$ 17,656

CITY OF DUBUQUE, IOWA
ACTIVITY PERSONNEL COMPLEMENT SUMMARY

ACCT	FD	JC	WP-GR	POSITION CLASS	FY 2018		FY 2019		FY 2020		
					FTE	BUDGET	FTE	BUDGET	FTE	BUDGET	
					Total	6.57	\$ 475,990	6.15	\$ 459,378	5.75	\$ 431,793
Project Engineering-Seasonal Service Fund											
80055400	61030	800	5325	NA-34	ENGINEERING AIDE-SEASONAL	1.00	\$ 32,844	1.00	\$ 33,344	1.00	\$ 34,100
					Total	1.00	\$ 32,844	1.00	\$ 33,344	1.00	\$ 34,100
Traffic Engineering-FT General Fund											
10055700	61010	100			CONFIDENTIAL ACCOUNT CLERK	0.25	\$ 11,069	0.25	\$ 11,856	0.25	\$ 12,125
10055700	61010	100	4870	GE-28	UTILITY LOCATOR	0.00	\$ —	0.25	\$ 14,054	0.25	\$ 14,374
10055700	61010	100	5550	GE-33	TRAFFIC ENGINEERING ASSIST	0.87	\$ —	0.87	\$ 18,807	0.00	\$ —
					Total	1.12	\$ 11,069	1.37	\$ 44,717	1.37	\$ 84,651
Traffic Engineering-FT Service Fund											
80055700	61010	800	5550	GE-33	TRAFFIC ENGINEERING ASSIST	0.13	\$ —	0.13	\$ 2,810	0.00	\$ —
					Total	0.13	\$ —	0.13	\$ 2,810	0.13	\$ 8,689
Project Engineering-FT Sewer Fund											
61055400	61010	610	2230	GE-35	ENVIRONMENTAL ENGINEER	0.00	\$ —	0.00	\$ —	0.00	\$ —
61055400	61010	610	4870	GE-28	UTILITY LOCATOR	0.34	\$ 18,826	0.25	\$ 14,054	0.25	\$ 14,374
61055400	61010	610	1000	GE-25	CONFIDENTIAL ACCOUNT CLERK	0.25	\$ 11,069	0.25	\$ 11,856	0.30	\$ 14,189
61055400	61010	610	5525	GE-38	CIVIL ENGINEER II	0.00	\$ —	0.10	\$ 9,799	0.10	\$ 10,024
61055400	61010	610	4060	GE-40	PROJECT MANAGER	0.00	\$ —	0.10	\$ 10,793	0.10	\$ 11,038
61055400	61010	610	9425	GE-44	CITY ENGINEER	0.10	\$ 13,569	0.10	\$ 13,772	0.15	\$ 21,131
61055400	61010	610	2710	GE-26	I&I INSPECTOR	0.00	\$ —	0.00	\$ —	0.00	\$ —
61055400	61010	610	225	GE-25	SECRETARY	0.25	\$ 11,796	0.25	\$ 12,044	0.25	\$ 12,368
61055400	61010	610	2220	GE-31	ENGINEERING TECHNICIAN	0.10	\$ 6,504	0.05	\$ 3,301	0.10	\$ 6,784
					Total	1.04	\$ 61,764	1.10	\$ 75,619	1.25	\$ 89,908
NPDES PERMIT-FT Stormwater Fund											
62055751	61010	620	2220	GE-31	ENGINEERING TECHNICIAN	0.00	\$ —	0.40	\$ 26,141	0.40	\$ 27,322
62055750	61010	620	2220	GE-31	ENGINEERING TECHNICIAN	0.00	\$ —	0.04	\$ 2,614	0.04	\$ 2,731
62055752	61010	620	2220	GE-31	ENGINEERING TECHNICIAN	0.00	\$ —	0.02	\$ 1,307	0.02	\$ 1,367
62055755	61010	620	2220	GE-31	ENGINEERING TECHNICIAN	0.00	\$ —	0.02	\$ 1,372	0.02	\$ 1,367
62055756	61010	620	2220	GE-31	ENGINEERING TECHNICIAN	0.00	\$ —	0.30	\$ 19,606	0.30	\$ 20,493
62055754	61010	620	2220	GE-31	ENGINEERING TECHNICIAN	0.00	\$ —	0.05	\$ 3,431	0.05	\$ 3,415
62055753	61010	620	2220	GE-31	ENGINEERING TECHNICIAN	0.00	\$ —	0.02	\$ 1,307	0.02	\$ 1,367
62055753	61010	620	1900	GE-38	CIVIL ENGINEER II	0.00	\$ —	0.03	\$ 2,940	0.03	\$ 3,008
62055756	61010	620	1900	GE-38	CIVIL ENGINEER II	0.00	\$ —	0.01	\$ 980	0.05	\$ 5,012
62055750	61010	620	1900	GE-38	CIVIL ENGINEER II	0.00	\$ —	0.01	\$ 980	0.01	\$ 1,002
					Total	0.00	\$ —	0.90	\$ 60,678	0.95	\$ 68,086
Sanitary Utility -FT Service Fund											
80055610	61010	800	5525	GE-38	CIVIL ENGINEER II	0.00	\$ —	0.00	\$ —	0.00	\$ —
80055610	61010	800	9425	GE-44	CITY ENGINEER	0.15	\$ 20,353	0.20	\$ 27,545	0.15	\$ 21,131
80055610	61010	800	2220	GE-31	ENGINEERING TECHNICIAN	1.50	\$ 97,554	1.50	\$ 99,041	1.65	\$ 109,630
80055610	61010	800	2725	GE-30	SURVEY TECHNICIAN	0.30	\$ 18,848	0.30	\$ 19,290	0.30	\$ 19,762
80055610	61010	800	5575	GE-33	SURVEY PARTY CHIEF	0.30	\$ 22,329	0.30	\$ 22,707	0.30	\$ 23,222
80055610	61010	800	2230	GE-35	ENVIRONMENTAL ENGINEER	0.00	\$ —	0.00	\$ —	0.00	\$ —
80055610	61010	800	225	GE-25	SECRETARY	0.00	\$ —	0.25	\$ 12,044	0.25	\$ 12,368
80055610	61010	800	4060	GE-40	PROJECT MANAGER	0.25	\$ 26,423	0.15	\$ 16,188	0.15	\$ 16,557
					Total	2.50	\$ 185,507	2.70	\$ 196,815	2.90	\$ 206,797
Sanitary Utility -PT Service Fund											
80055610	61010	800	1000	GE-25	CONFIDENTIAL ACCOUNT CLERK	0.15	\$ 5,655	0.15	\$ 5,741	0.00	\$ —
					Total	0.15	\$ 5,655	0.15	\$ 5,741	0.00	\$ —
Project Engineering-FT Stormwater Fund											
62055620	61010	620	2220	GE-31	ENGINEERING TECHNICIAN	1.00	\$ 65,647	0.10	\$ 6,671	0.15	\$ 10,294

CITY OF DUBUQUE, IOWA
ACTIVITY PERSONNEL COMPLEMENT SUMMARY

ACCT	FD	JC	WP-GR	POSITION CLASS	FY 2018		FY 2019		FY 2020			
					FTE	BUDGET	FTE	BUDGET	FTE	BUDGET		
62055620	61010	620	4870	GE-28	UTILITY LOCATOR	0.34	\$ 18,826	0.25	\$ 14,054	0.25	\$ 14,374	
62055620	61010	620	2230	GE-35	ENVIRONMENTAL ENGINEER	0.00	\$ —	0.00	\$ —	0.00	\$ —	
62055620	61010	620	2710	GE-26	I&I INSPECTOR	0.00	\$ —	0.00	\$ —	0.00	\$ —	
					CONFIDENTIAL ACCOUNT							
62055620	61010	620	1000	GE-33	CLERK	0.25	\$ 11,069	0.25	\$ 11,856	0.30	\$ 14,189	
62055620	61010	620	9425	GE-44	CITY ENGINEER	0.10	\$ 13,569	0.10	\$ 13,772	0.15	\$ 21,131	
62055620	61010	620	2700	GE-31	ENGINEERING ASST II	0.10	\$ 6,697	0.10	\$ 6,796	0.10	\$ 6,999	
62055620	61010	620	225	GE-25	SECRETARY	0.25	\$ 11,796	0.00	\$ —	0.00	\$ —	
62055620	61010	620	1900	GE-38	CIVIL ENGINEER II	0.20	\$ 19,214	0.10	\$ 9,704	0.10	\$ 9,927	
						Total	2.24	\$ 146,818	0.90	\$ 62,853	1.05	\$ 76,914
Stormwater Utility -PT Stormwater												
62055900	61020	620	2710	GE-26	I&I INSPECTOR	0.73	\$ 35,749	1.48	\$ 73,974	1.46	\$ 74,638	
						Total	0.73	\$ 35,749	1.48	\$ 73,974	1.46	\$ 74,638
Stormwater Utility -FT Service Fund												
80055620	61010	800	5525	GE-38	CIVIL ENGINEER II	1.30	\$ 125,133	1.25	\$ 122,111	1.20	\$ 119,896	
80055620	61010	800	9425	GE-44	CITY ENGINEER	0.15	\$ 20,353	0.10	\$ 13,772	0.10	\$ 14,087	
80055620	61010	800	2220	GE-31	ENGINEERING TECHNICIAN	1.76	\$ 114,018	1.70	\$ 112,423	1.85	\$ 123,920	
80055620	61010	800	2230	GE-35	ENVIRONMENTAL ENGINEER	0.00	\$ —	0.00	\$ —	0.00	\$ —	
80055620	61010	800	2700	GE-31	ENGINEERING ASST II	0.40	\$ 26,786	0.40	\$ 27,187	0.40	\$ 27,995	
80055620	61010	800	2725	GE-30	SURVEY TECHNICIAN	0.25	\$ 15,706	0.25	\$ 16,075	0.25	\$ 16,468	
80055620	61010	800	4060	GE-40	PROJECT MANAGER	0.25	\$ 26,423	0.25	\$ 26,981	0.25	\$ 27,595	
80055620	61010	800	5575	GE-33	SURVEY PARTY CHIEF	0.25	\$ 18,608	0.25	\$ 18,923	0.25	\$ 19,351	
80055620	61010	800	2710	GE-26	I&I INSPECTOR	0.00	\$ —	0.00	\$ —	0.00	\$ —	
						Total	4.36	\$ 347,027	4.20	\$ 337,472	4.65	\$ 363,757
Stormwater Utility -PT Service Fund												
80055620	61020	800	1000	GE-25	CONFIDENTIAL ACCOUNT							
					CLERK	0.75	\$ 28,267	0.75	\$ 28,704	0.00	\$ —	
						Total	0.75	\$ 28,267	0.75	\$ 28,704	0.00	\$ —
Stormwater Utility -Seasonal Service Fund												
80055620	61030	800	NA-34		ENGINEERING AIDE-SEASONAL	0.00	\$ —	0.00	\$ —	0.00	\$ —	
					ENGINEERING ASSIST-SEASONAL	0.00	\$ —	0.00	\$ —	0.00	\$ —	
						Total	0.00	\$ —	0.00	\$ —	0.00	\$ —
Water Utility -FT												
64055400	61010	620	4870	GE-28	UTILITY LOCATOR	0.00	\$ —	0.25	\$ 14,054	0.25	\$ 14,374	
						Total	0.00	\$ —	0.25	\$ 14,054	0.25	\$ 14,374
TOTAL ENGINEERING DIVISION												
						29.29	\$2,018,317	30.23	\$2,117,881	29.96	\$ 2,162,540	

Capital Improvement Projects by Department/Division					
ENGINEERING					
CIP Number	Capital Improvement Project Title	FY 17 Actual Expense	FY 18 Actual Expense	FY 19 Adopted Budget	FY 20 Recomm'd Budget
1001108	SIDEWALK REPAIR/MAINTENAN	1,378	3,292	30,000	30,000
1001200	RIVER DISCOVERY CENTER	87	122	—	0
1001818	ROCKDALE CORRIDOR STUDY	136	—	—	0
1002086	HEEB STREET WALL	13	—	—	0
1002502	ELM COMPLETE STREET	67	—	—	0
1021857	UTILITY FRANCHISE ANALYSI	108,804	606,303	—	0
1021963	RIVERWALK SECURITY CAMERA	—	—	—	0
1022673	16TH ST DET BASIN TRAIL	30,414	672	—	597,000
1022674	KERPER BLVD FIBER AND CAM	68,713	96,326	—	0
2501039	CORRIDOR STUDY ALTERNATES	—	—	—	0
2501077	BRUNSKILL RD BRIDGE REPLC	23,287	—	—	0
2501210	GRANDVIEW AVE.LIGHT POLES	—	—	—	0
2501281	JACKSON ST. RECONSTRUCTIO	—	—	320,000	0
2501702	3RD ST OVERPASS-PAINT	135	—	—	0
2502253	ITS TRAFFIC CONTROL EQUIP	4,500	20,500	—	0
2502274	US 52/CENTRAL TRAFFIC IMP	—	3,070	—	0
2502422	TRAFFIC OPS CTR VIDEO SOF	—	—	—	0
2502676	CITY-WIDE SECURITY CAMERA	—	—	—	0
2502724	GRNDVW/UNVRSTY ROUNDABOUT	—	—	900,000	0
2502797	7TH ST EXT TO PINE	—	—	—	88,400
2502799	INET FIBER BUILD OUT	—	—	—	100,000
2601236	WHEEL CHAIR RAMPS	276	—	—	12,600
2601239	NEIGHBORHOOD REL IMPROVEM	4,897	236,273	—	10,000
2601549	STREET LIGHT REPLACEMENT	85	596	28,000	0
2602767	LEAD SVC LINE REPLACE	—	—	150,000	30,000
2642769	HUD RESILIENCY ENGINEER	—	1,976,494	9,690,000	8,128,055
3001011	SIGNALIZATION PROGRAM	72,739	38,766	65,000	80,000
3001023	INTERSECTION PREEMPTION	5,593	5,382	—	15,000
3001027	GUARDRAIL REPLACEMENT	—	8,718	10,000	10,000
3001029	STONE RETAINING WALLS	55,721	40,908	50,000	0
3001039	CORRIDOR STUDY-ALTERNATES	—	—	—	0
3001041	CURB/CATCH BASIN REPL	32,793	69,969	20,000	10,000
3001133	TRAFFIC SIGNAL MASTARM RE	12,263	38,098	40,000	80,000
3001210	GRANDVIEW AVE.LIGHT POLES	37,272	110,571	—	50,000
3001229	TRAFFIC CONTR BATTERY PCK	—	—	20,000	20,000
3001256	SPECIAL ASSESSMENT ASSIST	—	—	—	0
3001258	BRIDGE REPAIRS/MAINT.	295,669	2,250	85,000	85,000
3001266	TRAFFIC SIGNAL INTERCONNE	35,680	84,666	25,000	40,000
3001274	TRAFFIC CONTROLLER REPLAC	575	—	15,000	45,000
3001287	SOUTHWEST ARTERIAL	5,970,493	5,869,752	350,000	100,000
3001425	SIDEWALK PROGRAM CITY OWN	42,657	44,580	—	0
3001466	HARBOR AREA MAINTENANCE	—	—	—	0
3001549	STREET LIGHT REPLACEMENT	12,527	19,819	—	0
3001615	SIGNAL INTERSEC RECONSTRU	33,611	122,941	45,000	65,000
3001630	DECORATIVE CONCRETE MAINT	—	—	—	0
3001631	TRAFF SIG FIBER OPTIC NET	45,231	94,989	—	80,000
3001634	WHITE WATER CREEK BRIDGE	—	—	—	0
3001815	TRAFFIC CONSULTANT SERV	5,125	—	—	0
3001816	TRAFFIC SIG VIDEO DET CON	61,540	74,749	42,000	52,000
3001916	LED RE-LAMP SCHEDULE	29,231	—	10,500	29,000
3001919	RECON SIGNALS/JFK-WACKER	1,100	—	—	0
3001922	SAFE ROUTES TO SCHOOL	—	—	—	0
3002021	N CASCADE RD RECONSTRUCT	78,619	2,164	—	0

Capital Improvement Projects by Department/Division					
ENGINEERING					
CIP Number	Capital Improvement Project Title	FY 17 Actual Expense	FY 18 Actual Expense	FY 19 Adopted Budget	FY 20 Recomm'd Budget
3002142	STREET CONST-GENERAL	186,552	40,631	75,000	83,000
3002144	FIBER OPTIC CONDUIT-MISC	33,253	15,548	—	50,000
3002245	PAVEMENT MARKING	160,583	113,280	135,000	135,000
3002246	CROSSWALK WARNING DEVICES	—	—	—	0
3002247	SW ARTERIAL-US 20 CAP IMP	939	—	—	0
3002252	ST LIGHT/SIGNAL KNOCKDOWN	60,129	18,275	30,000	30,000
3002253	ITS TRAFFIC CONTROL EQUIP	5,328	49,500	19,752	17,000
3002256	PENN@RADFORD INTERESECT	—	—	—	0
3002324	UNI & ASBURY INTER IMPROV	457	—	—	0
3002327	CATFISH CRK BRIDGE FIBER	366,412	—	—	0
3002328	SCHOOL ZN CNT-DWN PED SIG	3,990	—	—	0
3002336	N GRANDVIEW ESTATES ROAD	—	—	—	0
3002420	SRGE AND GRND IMPR SIGNAL	4,009	1,678	—	15,000
3002421	STREET CAMERA INSTALL	7,141	37,326	40,000	75,000
3002422	TRAFIC OPS CTR VIDEO SOFT	35,142	4,796	—	0
3002423	TRAFIC OPS CNTR EQUP TEST	613	424	—	0
3002484	LED STREETLIGHT RETROFIT	26,235	2,401	—	0
3002491	FIBER OPTICS TO AIRPORT	56,954	106,214	—	0
3002553	9TH TO 11TH 1WAY 2WAY RRX	20,178	—	—	0
3002557	FLASH YELLOW LEFT TURN	2,644	—	—	0
3002558	REPLC LED SIGNS BEACONS	4,080	—	—	0
3002559	GRANDVIEW SIGNAL RECON	59,017	339,559	—	0
3002611	GRANDVIEW/DELHI ROUNDABOU	684,424	1,062	—	0
3002612	HEEB STREET RECON	5,777	—	—	50,000
3002613	ROW MANAGEMENT	88,043	—	—	0
3002614	ASBURY RD WEST CITY ASBUR	19,335	—	—	0
3002615	WAH NEIGH STREET LIGHTS	—	672	—	0
3002616	STREET LIGHT AUDIT	5,085	—	—	0
3002617	JFK RD COORD WACKER/ASB	23,072	2,748	—	0
3002618	WEST LOCUST COMM/CAMERAS	29,322	13,786	—	92,000
3002619	UNIV/ASBURY FIBER/CAMERA	12,117	2,199	—	0
3002620	FIBER/NETWORK MGMT PROG	1,827	228	—	50,450
3002634	SMARTER TRAVEL PROJECT	8,874	5,987	—	0
3002672	NEW ST LIGHTS CITY-WIDE	2,572	—	—	0
3002674	KERPER BLVD FIBER AND CAM	—	22,220	—	0
3002675	NW ARTERIAL TURN LANE IMP	10,569	42,625	—	0
3002676	CITY-WIDE SECURITY CAMERA	23,466	83,152	—	0
3002694	KEY WEST DR RECONSTRUCT	67,018	—	—	0
3002695	NW ARTERIAL LEFT TURN LN	193,439	9,160	—	0
3002717	POD IRRIGATION REPLACEMEN	—	5,101	10,000	0
3002724	GRNDVW/UNVRSTY ROUNDABOUT	—	9,977	—	0
3002761	DERBY GRANGE RESURFACE	—	—	23,000	0
3002762	LANDFILL ACCESS ROAD	—	—	400,000	97,000
3002763	STREETS TRAFFIC CONTROL	—	—	200,000	100,000
3002796	CENTRAL AVE 1 TO 2 WAY	—	—	—	180,000
3002798	PAVEMENT PRESERVATION	—	—	—	32,984
3002800	ASBURY RD SIGNALIZATION	—	—	—	120,000
3002801	FIBR REEL TRAILER/TOOLS	—	—	—	15,000
3401654	BEE BRANCH CREEK RESTORAT	6,899,745	2,767,527	—	0
3402608	GATE REPLC FLOOD MITIGATI	33,363	806	—	0
3402609	FLOOD CONTROL MAINT FACIL	54,691	123,145	—	0
3402690	HUD RESILIENCY	181	428,671	489,000	0
3402769	HUD RESILIENCY ENGINEER	—	—	—	3,523,143

Capital Improvement Projects by Department/Division					
ENGINEERING					
CIP Number	Capital Improvement Project Title	FY 17 Actual Expense	FY 18 Actual Expense	FY 19 Adopted Budget	FY 20 Recomm'd Budget
3501029	STONE RETAINING WALLS	16,119	—	—	0
3501053	RIVERFRONT LEASEHOLD IMPR	128,451	7,506	104,000	0
3501425	SIDEWALK PROGRAM CITY OWN	—	—	49,391	25,000
3501465	REHAB RR TRACK	—	—	—	0
3501466	HARBOR AREA MAINTENANCE	—	—	—	0
3501549	STREET LIGHT REPLACEMENT	—	—	31,481	0
3501609	FIBER OPT CON-PRIV & MISC	20,925	—	—	0
3501630	DECORATIVE CONCRETE MAINT	—	—	100,000	0
3501727	SIDEWALK FINANCIAL ASSIST	—	—	—	0
3501841	FEDERAL BUILDING RENOVTN	11,868	86,751	—	0
3502021	N CASCADE RD RECONSTRUCT	2,506	17,076	—	0
3502642	CHAVENELLE TRAIL	415	40,099	—	0
3601039	CORRIDOR STUDY ALTERNATES	—	—	578,000	4,450,000
3601053	RIVERFRONT LEASEHOLD IMPR	3,505	—	—	4,200
3601549	STREET LIGHT REPLACEMENT	—	—	19,400	0
3601608	DWNTWN ST LIGHT REPLACMNT	89	3,025	—	0
3601841	FEDERAL BUILDING RENOVTN	—	—	160,000	102,700
3602273	CHAVENELLE TRAIL	42,555	44,654	—	0
3602421	STREET CAMERA INSTALL	—	—	12,509	0
3602481	18TH ST WALL RECON	95,721	—	—	0
3602484	LED STREETLIGHT RETROFIT	—	—	—	0
3602487	POD PARKING LOT	—	—	50,000	0
3602494	DT SECURITY CAMERAS	168,987	120,939	—	0
3602551	CHAVENELLE RD REHAB	—	—	—	0
3602552	WASH ST RECON 8TH TO 9TH	35,425	14,465	—	0
3602554	11TH ST STAIRS RECON	—	21,235	—	0
3602671	DOWNTOWN STREET LIGHTS	143	47,622	—	0
3602676	DOWNTOWN SECURITY CAMERAS	—	—	—	0
3602677	DOWNTOWN SECURITY CAMERAS	—	—	—	0
3602760	HWY 52 PHASE 4 CENTRAL	—	—	1,923,000	0
3602796	CENTRAL AVE 1 TO 2 WAY	—	—	—	20,000
7101012	ANNEXATION STUDY/IMPLEMEN	1,082	—	—	0
7101067	SEWER CONN ASST-LOW/MOD	—	—	—	0
7101289	GENERAL SANITARY SEWER RE	4,494	—	—	0
7101293	SAN SEWER INTERNAL MAIN	—	—	191,000	34,822
7101294	I&I REDUCTION PROGRAM	77,020	17,479	—	0
7101297	LATERAL REPL ASST.LOW INC	—	—	—	0
7101309	SEWER LATERAL ASSISTANCE	—	—	—	0
7101320	LATERALS-I&I REDUCTION	12,745	4,600	—	0
7101335	SAN SEWER MANHOLE REPLACE	197,802	196,608	77,921	50,000
7101350	SEWER EXTENSIONS NEW DEV.	217,070	5,046	—	0
7101637	SAN SEWER LINING PROGRAM	446,675	160,132	150,000	27,500
7101638	STREET PROG/RELATED SANIT	180,239	—	—	0
7101797	MONROE ST SAN SEWER EXT	—	—	—	0
7102233	FAIRWAY DR SANITARY SEWER	23,500	—	—	0
7102322	HAWTHORNE SANT SWR RECON	—	—	—	0
7102406	FOX BLACKHAWK SAN SEWER	—	—	125,850	0
7102409	GRANGER CREEK SAN EXT	297,314	—	—	0
7102412	CEDAR LIFT PUMP/GEN/TRAIL	—	—	100,000	0
7102413	RELOC 30" MAIN OPW GARAGE	357,015	35,260	—	0
7102450	\$9.4 GREEN ALLEYS	1,858,294	468,851	—	0
7102546	TRACK LN SAN SEWER CLEAN	—	—	—	100,000

Capital Improvement Projects by Department/Division					
ENGINEERING					
CIP Number	Capital Improvement Project Title	FY 17 Actual Expense	FY 18 Actual Expense	FY 19 Adopted Budget	FY 20 Recomm'd Budget
7102547	WASH ST SAN 7TH TO 9TH	701	662	—	0
7102548	JFK SANITARY SEWER	59,390	—	—	0
7102606	CEDAR/TERM ASSESSMENTS	187,836	80,748	—	153,000
7102607	CATFISH/GRANGER LIFT IMPR	194,709	—	—	243,000
7102612	HEEB STREET	—	—	—	20,000
7102638	LAKE ELEANOR LIFT STATION	16,852	—	—	0
7102663	KERPER SANITARY	201,703	156,716	—	0
7102669	SW ART/MENARD UTLTY RELOC	—	—	—	0
7102670	SW ART/HWY 20 UTLTY RELOC	—	—	275,000	0
7102720	30TH & JACKSON SAN SEWER	—	—	—	0
7102721	MARQUETTE SAN SEWER	—	—	—	0
7102728	COATES SANITARY SEWER	2,988	15,947	—	0
7102729	DERBY GRANGE ANNEXATION	10,760	442,051	—	0
7102754	TWIN RIDGE LIFT ST ABANDO	—	—	175,000	0
7102755	HARLAN EUCLID SANITARY	—	—	75,000	0
7102791	ASSET MANAGEMENT	—	—	—	164,000
7102793	CCTV INSPECT/CLEAN/ASSESS	—	—	—	75,000
7102794	WOOD ST SANITARY	—	—	—	15,000
7201008	STORM SEWER IMPR/EXTENSIO	11,265	—	60,000	60,000
7201066	GENERAL REPAIRS	151,774	25,054	100,000	100,000
7201081	CATCH BASIN/WESTSIDE STOR	10,136	—	53,000	53,000
7201085	KAUFMANN AVE STORM	—	—	—	0
7201086	NW ARTERIAL DETENSION BAS	—	—	48,500	0
7201180	JACKSON STREET STORM SEWE	—	—	30,000	0
7201351	WINDSOR STORMS SEWER	6	—	—	0
7201354	DRAIN TILE PROGRAM	28,731	—	20,000	20,000
7201355	NPDES PROGRAM	66	—	—	0
7201363	GUNITE ROCK STORM SEWER	—	—	100,000	0
7201365	MIDDLE ROAD CULVERT	—	—	—	0
7201379	SUNNYCREST/ROOSEVELT STRM	—	—	—	21,000
7201654	BEE BRANCH CREEK RESTORAT	9,937,470	1,757,214	—	0
7201659	STORM SEWER CLEANING	—	—	—	0
7201809	VILLA ST STORM SEWER PROJ	56,930	330	—	0
7201811	UNIVERSITY AV CULVERT EXT	—	—	—	25,000
7202133	KANE KAUF-STORM SEW CONST	—	—	—	0
7202238	CEDAR CROSS RD STORM	—	—	69,700	0
7202239	FLOODWALL BREACH ANALYSIS	13,218	—	—	0
7202274	US-52 STORM IMPROVEMENTS	—	—	—	0
7202331	CATFISH CRK WATERSHED PRT	82,480	360,768	0	0
7202332	STORMWTR INFILT & INFLOW	59,416	0	100,000	100,000
7202333	STORMWTR INFILT&INFLO PRE	277	0	0	0
7202418	14TH ST RECONSTRUCTION	98	0	0	0
7202547	WASH ST SAN 7TH TO 9TH	0	0	0	0
7202609	FLOOD CONTROL MAINT FACIL	0	51,115	0	0
7202610	ADMIRAL SHEEHY FLOOD GATE	0	0	49,500	0
7202612	HEEB STREET	0	0	0	5,000
7202632	S GRANDVIEW (CANGENELLI)	84,863	4,172	0	0
7202667	AVOCA STORM IMPROVEMENTS	8,583	37,191	0	0
7202668	NORTHRIDGE STORM EXTENSIO	0	0	19,000	0

Capital Improvement Projects by Department/Division					
ENGINEERING					
CIP Number	Capital Improvement Project Title	FY 17 Actual Expense	FY 18 Actual Expense	FY 19 Adopted Budget	FY 20 Recomm'd Budget
7202669	SW ART/MENARD UTLTY RELOC	0	0	0	0
7202670	SW ART/HWY 20 UTLTY RELOC	0	0	0	325,000
7202690	HUD RESILIENCY	0	0	4,479,042	0
7202693	CATFISH CRK BRIDGE STORM	71,403	0	0	0
7202722	WILBRICHT DETENTION BASIN	0	0	0	0
7202723	VAN BUREN STORM OUTLET	0	6,320	0	0
7202756	US 52 CENTRAL STORMWATER	0	0	100,000	0
7202757	ST ANNE DR STORM	0	0	62,500	0
7202758	HILLCREST ROSEMONT DET	0	0	98,800	0
7202759	MAUS PARK CULVERT	0	0	200,000	0
7202762	LANDFILL ACCESS ROAD	0	0	0	222,000
7202769	HUD RESILIENCY ENGINEER	0	0	0	9,899,795
ENGINEERING	TOTAL	31,659,423	18,050,305	23,004,846	30,737,649

PRGRM/ DEPT	PROJECT DESCRIPTION	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	TOTAL	PAGE
PUBLIC WORKS								
SANITARY SEWER								
Business Type								
General								
	Sanitary Sewer Extensions to New Developments	\$ 34,822	\$ 13,275	\$ 33,866	\$ 59,145	\$ 174,473	\$ 315,581	143
	Sanitary Sewer Extensions to Existing Developments	\$ —	\$ 600,000	\$ 1,200,000	\$ —	\$ 386,310	\$ 2,186,310	144
	Twin Ridge Subdivision -Lagoon Abandonment	\$ —	\$ —	\$ 465,000	\$ —	\$ —	\$ 465,000	145
	Sanitary Sewer Extensions - Existing Development, Pre-annexation and Annexation Agreements	\$ —	\$ —	\$ 233,500	\$ —	\$ —	\$ 233,500	146
	Sewer Utility Master Plan	\$ 164,000	\$ 237,000	\$ 121,000	\$ —	\$ —	\$ 522,000	147
	CCTV Inspection, Cleaning, and Assessment	\$ 75,000	\$ 285,000	\$ 180,000	\$ 180,000	\$ 180,000	\$ 900,000	148
Rehabilitation								
	Catfish and Granger Creek Interceptor, Force Main and Lift Station Improvements	\$ 243,000	\$ 1,251,000	\$ 1,940,000	\$ —	\$ —	\$ 3,434,000	163
	Cedar and Terminal Street Lift Station and Force Main Assessment and Improvements	\$ 153,000	\$ 750,000	\$ 1,416,000	\$ 2,260,000	\$ —	\$ 4,579,000	165
	Track Line Sanitary Cleaning and Lining	\$ 100,000	\$ 187,790	\$ —	\$ —	\$ —	\$ 287,790	167
	Sanitary Sewer Lining Program	\$ 27,500	\$ 62,500	\$ 70,000	\$ 170,000	\$ 170,000	\$ 500,000	168
	Manhole Replacement/Rehab Program	\$ 50,000	\$ —	\$ —	\$ 50,000	\$ —	\$ 100,000	169
	Center Place Alley Sanitary Sewer Rehabilitation	\$ —	\$ 110,000	\$ 300,000	\$ —	\$ —	\$ 410,000	170
	Perry & Bradley Force Main and Lift Station Improvements	\$ —	\$ —	\$ —	\$ 260,000	\$ —	\$ 260,000	171
	Couler Valley Interceptor Inspection, Cleaning and Rehabilitation	\$ —	\$ —	\$ —	\$ 85,000	\$ —	\$ 85,000	172
Reconstruction								
	Southfork Interceptor Sewer	\$ —	\$ —	\$ —	\$ 34,181	\$ 533,819	\$ 568,000	149
	Knob Hill-Duggan Drive Sanitary Sewer Reconstruction	\$ —	\$ —	\$ —	\$ 149,310	\$ —	\$ 149,310	150
	Brunswick Sanitary Sewer	\$ —	\$ —	\$ —	\$ 9,400	\$ 68,900	\$ 78,300	151
	Southgate Sanitary Sewer Reconstruction	\$ —	\$ —	\$ —	\$ 13,300	\$ 98,100	\$ 111,400	152
	King Street Sanitary Sewer Reconstruction	\$ —	\$ —	\$ —	\$ 11,300	\$ 82,800	\$ 94,100	153
	Center Grove Sanitary Sewer Reconstruction	\$ —	\$ —	\$ —	\$ 7,300	\$ 60,000	\$ 67,300	154
	Wood Street Sanitary Sewer Reconstruction	\$ 15,000	\$ 95,000	\$ —	\$ —	\$ —	\$ 110,000	155

PRGRM/ DEPT	PROJECT DESCRIPTION	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	TOTAL	PAGE
	Auburn & Custer Sanitary Sewer Reconstruction	\$ —	\$ 316,400	\$ —	\$ —	\$ —	\$ 316,400	156
	Grove Terrace Sanitary Sewer Reconstruction	\$ —	\$ —	\$ 110,000	\$ —	\$ —	\$ 110,000	157
	Heeb Street Sanitary Sewer Reconstruction	\$ 20,000	\$ 160,000	\$ —	\$ —	\$ —	\$ 180,000	158
	Hempstead Sanitary Sewer Reconstruction	\$ —	\$ 30,000	\$ 250,000	\$ —	\$ —	\$ 280,000	159
	Cooper Place and Maiden Lane Sanitary Sewer Reconstruction	\$ —	\$ —	\$ —	\$ 30,000	\$ 300,000	\$ 330,000	160
	Abbott & Cottage Sanitary Sewer Reconstruction	\$ —	\$ —	\$ —	\$ 20,000	\$ 200,000	\$ 220,000	161
	Harvard St Sanitary Sewer Reconstruction	\$ —	\$ —	\$ —	\$ —	\$ 18,000	\$ 18,000	162
STORMWATER								
Business Type								
General Storm Sewer Projects								
	Stormwater Infiltration & Inflow Elimination Program	\$ 100,000	\$ 50,000	\$ 50,000	\$ 90,000	\$ 100,000	\$ 390,000	173
	Storm Sewer General Replacements	\$ 100,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 100,000	\$ 350,000	174
	Storm Sewer Improvements/ Extensions	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 64,946	\$ 304,946	175
	Catch Basin Reconstruction	\$ 53,000	\$ 53,000	\$ 53,000	\$ 53,060	\$ 54,122	\$ 266,182	176
	Draintile Program	\$ 20,000	\$ 20,400	\$ 20,810	\$ 21,224	\$ 21,649	\$ 104,083	177
	Storm Sewer Lining and Rehabilitation	\$ —	\$ 100,000	\$ 50,000	\$ 100,000	\$ 100,000	\$ 350,000	178
Specific Storm Sewer Projects								
	US HWY 20 Interchange Storm Sewer Improvements	\$ 325,000	\$ —	\$ —	\$ —	\$ —	\$ 325,000	184
	Landfill Access Road Storm Sewer	\$ 222,000	\$ —	\$ —	\$ —	\$ —	\$ 222,000	185
	University Ave Storm Sewer	\$ 25,000	\$ 150,000	\$ —	\$ —	\$ —	\$ 175,000	186
	Roosevelt Culvert Reconstruction	\$ 21,000	\$ —	\$ —	\$ —	\$ —	\$ 21,000	187
	Heeb Street Storm Sewer (Street Program)	\$ 5,000	\$ 25,000	\$ —	\$ —	\$ —	\$ 30,000	188
	Keokuk Storm Sewer Extension	\$ —	\$ —	\$ 44,600	\$ —	\$ —	\$ 44,600	189
	Copper Field Storm Sewer Extension Project	\$ —	\$ —	\$ 34,700	\$ —	\$ —	\$ 34,700	190
	Key Way Drive Outfall Project	\$ —	\$ —	\$ 30,100	\$ —	\$ —	\$ 30,100	191
	Pennsylvania Culvert Replacement	\$ —	\$ —	\$ 25,000	\$ 100,000	\$ —	\$ 125,000	192
	Windsor Street Storm Sewer Extension	\$ —	\$ —	\$ —	\$ 80,500	\$ —	\$ 80,500	193
Bee Branch Watershed Projects								
	Bee Branch Creek RR Culverts	\$ 13,817,473	\$ 8,629,100	\$ —	\$ —	\$ —	\$ 22,446,573	179
	22nd Street Storm Sewer Improvements	\$ 4,847,483	\$ —	\$ —	\$ —	\$ —	\$ 4,847,483	181
	17th Street Storm Sewer Improvements	\$ 2,886,037	\$ 384,418	\$ —	\$ —	\$ —	\$ 3,270,455	182

PRGRM/ DEPT	PROJECT DESCRIPTION	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	TOTAL	PAGE
	Flood Control Maintenance Facility	\$ —	\$ —	\$ —	\$ —	\$ 220,000	\$ 220,000	183
STREETS								
Public Works								
Street Related Improvements								
	Pavement Marking Project	\$ 135,000	\$ 85,000	\$ 135,000	\$ 135,000	\$ 135,000	\$ 625,000	194
	Street Construction General Repairs	\$ 83,000	\$ 80,000	\$ 91,911	\$ 100,000	\$ 110,000	\$ 464,911	195
	Guardrail Replacement	\$ 10,000	\$ —	\$ 15,000	\$ 10,000	\$ 12,000	\$ 47,000	196
	East - West Corridor Capacity Improvements	\$ 4,450,000	\$ 150,000	\$ 4,150,000	\$ —	\$ —	\$ 8,750,000	197
	Chavenelle Rd Reconstruction	\$ —	\$ 3,000,000	\$ —	\$ —	\$ —	\$ 3,000,000	199
	Heeb Street Reconstruction	\$ 50,000	\$ 250,000	\$ —	\$ —	\$ —	\$ 300,000	201
	Southwest Arterial Project	\$ 100,000	\$ —	\$ —	\$ —	\$ —	\$ 100,000	202
	Landfill Access Road	\$ 97,000	\$ —	\$ —	\$ —	\$ —	\$ 97,000	204
	2-Way Conversion Central & White	\$ 200,000	\$ —	\$ —	\$ —	\$ —	\$ 200,000	205
	7th Street Extension to Pine Street	\$ 88,400	\$ —	\$ —	\$ 70,000	\$ 800,000	\$ 958,400	206
	Pavement Preservation Program	\$ 32,984	\$ 49,016	\$ —	\$ —	\$ 13,000	\$ 95,000	207
	North Cascade Road Reconstruction	\$ —	\$ 1,497,200	\$ —	\$ —	\$ —	\$ 1,497,200	209
	JFK Road Resurfacing	\$ —	\$ 150,000	\$ —	\$ —	\$ —	\$ 150,000	211
	Pennsylvania & Radford Roundabout	\$ —	\$ —	\$ —	\$ 1,100,000	\$ —	\$ 1,100,000	212
	Cedar Cross Rd Reconstruction	\$ —	\$ —	\$ —	\$ 600,000	\$ 2,700,000	\$ 3,300,000	213
	Seippel Road Reconstruction	\$ —	\$ —	\$ —	\$ 280,000	\$ 1,119,725	\$ 1,399,725	214
Sidewalk Related								
	Sidewalk Inspection Program - Assessable	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 150,000	215
	Sidewalk Program - City-Owned Property	\$ 25,000	\$ —	\$ 40,000	\$ 40,000	\$ 7,979	\$ 112,979	216
	ADA Curb Ramp Construction	\$ 12,600	\$ 12,600	\$ 12,600	\$ 12,600	\$ 12,600	\$ 63,000	217
	Sidewalk Program Related Curb and Catch Basin Replacements	\$ 10,000	\$ 20,000	\$ 31,328	\$ 25,777	\$ —	\$ 87,105	218
	Crosswalk Warning Devices	\$ —	\$ 32,000	\$ —	\$ —	\$ 32,000	\$ 64,000	219
Trails/General Maintenance								
	Stone Retaining Walls	\$ —	\$ 340,000	\$ 40,000	\$ 40,000	\$ 50,000	\$ 470,000	220
	Bridge Repairs/Maintenance	\$ 85,000	\$ 60,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 445,000	221
	Lead Service Line Replacement Assistance	\$ 30,000	\$ 5,000	\$ 5,000	\$ 30,000	\$ 30,000	\$ 100,000	222
	Bee Branch Trail 16th to 9th Street	\$ 597,000	\$ —	\$ 697,000	\$ —	\$ 244,000	\$ 1,538,000	223
	Complete Streets Elements	\$ —	\$ —	\$ 55,000	\$ —	\$ —	\$ 55,000	225
MISCELLANEOUS								
General Government								
	Federal Building Renovation	\$ 102,700	\$ 391,800	\$ 329,300	\$ 601,734	\$ —	\$ 1,425,534	226

PRGRM/ DEPT	PROJECT DESCRIPTION	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	TOTAL	PAGE
Community and Economic Development								
Public Works								
	Riverfront Dock Expansion	\$ — \$	925,000	\$ 825,000	\$ — \$	— \$	— \$ 1,750,000	228
	Neighborhood Related Improvement	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 50,000	230
	Riverfront Leasehold Improvements	\$ 4,200	\$ 301,700	\$ 75,000	\$ —	— \$	— \$ 380,900	231
	ABC Supply Building Deconstruction	\$ — \$	417,000	\$ — \$	— \$	— \$	— \$ 417,000	232
	Port of Dubuque - Security Cameras	\$ — \$	— \$	20,000	\$ — \$	— \$	— \$ 20,000	233
	Harbor Area Maintenance	\$ — \$	— \$	10,000	\$ 11,894	\$ — \$	— \$ 21,894	234
TRAFFIC								
Public Works								
	Street Light Replacement and New Installation	\$ — \$	37,000	\$ 138,200	\$ 145,200	\$ 180,000	\$ 500,400	235
	Signalization Program	\$ 80,000	\$ 80,000	\$ 80,000	\$ 80,000	\$ 80,000	\$ 400,000	237
	Traffic Signal Mastarm Retrofit	\$ 80,000	\$ 80,000	\$ 100,000	\$ 80,000	\$ 80,000	\$ 420,000	238
	Traffic Signal Interconnect Conduit Replacement	\$ 40,000	\$ 40,000	\$ 60,000	\$ 71,000	\$ 40,000	\$ 251,000	239
	Traffic Signal Controller Replacement	\$ 45,000	\$ 45,000	\$ 45,000	\$ 45,000	\$ 41,000	\$ 221,000	240
	Street Lighting and Traffic Signal Knockdown	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 150,000	241
	Street Camera Installation	\$ 75,000	\$ 82,476	\$ 130,775	\$ 101,887	\$ 105,000	\$ 495,138	242
	LED Re-lamp schedule	\$ 29,000	\$ —	\$ 30,000	\$ 30,000	\$ 29,000	\$ 118,000	243
	Traffic Signal Battery Backup Program	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 100,000	244
	Traffic Signal Intersection Reconstruction	\$ 65,000	\$ 45,000	\$ 82,000	\$ 82,000	\$ 72,472	\$ 346,472	245
	Surge and Grounding Improvements at Signals City-Wide	\$ 15,000	\$ 14,756	\$ 29,000	\$ 10,000	\$ 10,000	\$ 78,756	246
	STREETS Traffic Control Project	\$ 100,000	\$ 100,000	\$ —	\$ —	— \$	\$ 200,000	247
	Traffic Signal Fiber Optics	\$ 80,000	\$ 80,000	\$ 90,000	\$ 100,000	\$ 100,000	\$ 450,000	248
	ITS Traffic Control Equipment	\$ 17,000	\$ 17,000	\$ 17,000	\$ 17,000	\$ 34,000	\$ 102,000	249
	Traffic Signal Vehicle Detection Conversion	\$ 52,000	\$ 32,000	\$ 37,000	\$ 32,000	\$ 32,000	\$ 185,000	250
	Grandview Street Light Replacement	\$ 50,000	\$ —	\$ —	\$ 50,000	\$ 100,000	\$ 200,000	251
	INET Replacement Build Out	\$ 100,000	\$ 100,000	\$ 125,000	\$ 150,786	\$ 65,000	\$ 540,786	252
	Emergency Preemption Expansion and Upgrades	\$ 15,000	\$ —	\$ 15,000	\$ 15,000	\$ —	\$ 45,000	253
	Asbury Rd Signalization Reconstruction	\$ 120,000	\$ —	\$ —	\$ —	— \$	\$ 120,000	254
	Fiber Reel Trailer and Fiber Tools	\$ 15,000	\$ —	\$ —	\$ —	— \$	\$ 15,000	255
	Fiber Optic Conduit - Miscellaneous	\$ 50,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 210,000	256
	Fiber Infrastructure Management System	\$ 50,450	\$ —	\$ 100,000	\$ 10,000	\$ 10,000	\$ 170,450	257

PRGRM/ DEPT	PROJECT DESCRIPTION	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	TOTAL	PAGE
	West Locust Fiber Redundant Path	\$ 92,000	\$ —	\$ —	\$ —	\$ —	\$ 92,000	258
	Total - Engineering Department	30,737,649	22,269,431	14,578,690	8,200,598	9,407,895	85,194,263	