

WQ Capital - Funds Awarded

Cost Center

FY15

FY16

FY17

FY18

FY19

Total

Central Avenue Extension

K80131

\$200,000			\$1,700,000	\$325,000	\$2,225,000
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CSS Separation Project. \$200k design of the drainage separation to alleviate CSO overload @ Erlanger. Later funding is for construction built in conjunction with the Central Ave. Extension. Ragan/Smith will perform study for less than \$25K to determine the flow requirements and route to determine a design cost fee, in January 2015. Schedule is driven by the roadway project and the federal requirements. Provide a dedicated SW outlet to the Earlanger, Warner Park, and Engle Stadium watersheds which historically have experienced Sanitary/Stormwater flooding issues. Project will be in conjunction with Moccasin Bend project to install Dedicated Sanitary Infrastructure.

Mountain Creek Road

K80133

\$450,000	\$250,000				\$700,000
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Removal and Upsizing of existing storm drain for the 5100 block of Mntn. Crk Rd to stabilize roadway and adjacent channel ±1,765 linear ft along the roadway. Removing existing culvert pipe, installing concrete box culverts and pipe and appurtenances; construction and installation of Gabion basket stabilization, backfill, Reno mattress installation, existing fence repair; milling pavement surface, roadway section, guard railing, geotextile including topsoil, backfill, stabilization; etc.

Levee Certification & Repairs

K80122

\$537,000					\$537,000
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In the wake of Hurricane Katrina, US Congress adopted levee certification 44CFR65.10. Levees must be certified by the owner before FEMA will acknowledge the levee on the FIRMs. Public Works has received notice from FEMA's contractor, working on Hamilton County flood map updates, that certification is required. \$1.1 Million transferred out to other FY15 projs in Nov 2014. Certification first budgeted in FY2011; Funds are required for repairs as determined during the certification process. FY2016 Contingency for Pipe extension behind Harbor Freight if FY2015 funds are insufficient. Est. Constr. Cost of \$1.2M (\$638k existing + \$562k in FY15) & \$600k in FY16.

LID Retrofit (Anderson Ave. Demonstration Proj.)

K80206

\$650,000	\$839,000				\$1,489,000
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Consent Decree Demonstration Project; Retrofit, using green infrastructure practices, a portion of Highland Park neighborhood; System to collect, treat and improve water quality flowing to Dobbs Branch; Utilize varying GI practices within the r.o.w. of Anderson Avenue & South Holly Street

Sunbeam Ave (3900 block)

K80119

\$25,000					\$25,000
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Installation of 900 L.F. of new stormdrain system (currently sheet flow down street), and 190 L.F. of upgrade to the existing storm drainage in the intersection of Belvoir and Sunbeam. The installation will help alleviate localized, residential yard and street flooding. Design completion anticipated for Spring/Summer 2015; Construction Fall/Winter 2015
 3900 Sunbeam \$582,000
 Belvoir Intersection \$55,100
 Total: 637,100

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Sunbeam Ave - Green Infrastructure

K80140

	\$250,000				\$250,000
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Runoff volume reduction via green infrastructure to avoid expensive, disruptive storm sewer upgrades at high traffic intersection that contains numerous competing buried utilities.

Valleybrook Subdivision

K80121

\$250,000					\$250,000
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Improvements to 5 areas within the subdivision to alleviate localized flooding. Improvements include 4 culvert/associated road crossings, upgrade approximately 800 L.F. of stormdrain pipe, and regrade approximately 1,000 L.F. of existing conveyance channels. Prelim. Modeling and Concept design was completed in 2013. In-house design was completed Spring 2014. TDEC negotiations, permitting, acquisitions, construction in FY2015-2016 (Eng Est. = \$1.4M)

McCutcheon Rd. Improvements

K80305

\$750,000	\$750,000				\$1,500,000
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1,300' of 4' x 6' box culvert and roadway improvements. Modeling/Design by in-house staff completed in 2014.

Bid/Award Construction in FY2015 (\$1.5M estimate). FY 2016 funds for Phase I contract (Lee Hwy. System + Intersection) for completion but could go to Yards.

CWS - Heavy Equipment

K80129

\$200,000	\$635,000	\$460,000		\$700,000	\$1,995,000
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FY 2016 (\$635k); 1 Low Boy Trailer @ \$60k; 1 Vac Truck @ \$275k; 1 Tandem Axle Dump Truck @ \$150k; 1 Small dozer @150k; FY17 = \$150k 2-tri-axle dump trucks, 1-vacuum truck (\$310k) (one truck dropped)

Concord & Golf Streets

K80134

\$200,000					\$200,000
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Removal and Upsizing of existing storm drain and structures on Dorchester Rd to drain the 3900 of N. Ave & 1100 block of Concord St & 1700 block of Golf St to the existing outfall on Dorchester Rd; installation of ±2100 LF of storm drain; replacement curb and gutter, asphalt curbs, S/W replacement, existing fence repair/replacement, including topsoil, backfill, seeding/straw and/or sodding; roadway base and asphalt paving; installation and removal of E&SC.

3500 Broad St. (St. Elmo Storm Sewer) "The BIG DIG"

K80116

\$9,500,000			\$3,100,000		\$12,600,000
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Relocation of existing 83" x 128" drainage system beneath closed landfill of former Wheland Foundry. Failure of system would cause catastrophic flooding of St. Elmo and Alton Park & catastrophic environmental damage due to discharge landfill waste (heavy metal contamination) directly to Gillespie Springs Branch and Chattanooga Creek.

Automated Flood Warning Sys.

K80135

	\$203,000	\$250,000			\$453,000
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Coordination, Implementation and Management of Flood Warning System for City of Chattanooga; Coordination with Police, Fire and Rescue, Public Works, 911; FY17 = Further development of the flood warning system including: training, materials, program development, tools, etc.

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Citywide Drainage Projects

K80202

	\$1,300,000				\$1,300,000
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Per Daisy, this project has a deficit of \$1.6 million. There are no estimated revenues and ~\$1.7 million was spent with no revenue source. Review indicates that \$329,839.38 has been charged here for emergency slope repair at Shallowford Rd @ Obey. It belonged in project K12141 (Roadway Slope Failure), which has a balance of \$ 416,951.86? No current or new projects should be paid out of this cost center (K80101) or K80202...Misty This would require an additional \$1.3 million in funding from WQ instead of \$1.6 million. Unless you have a better explanation, we will reclassify the emergency slope repair to Public Works project K12141. We will then need a capital request to transfer \$1.3 million from WQ reserves as a source of funding for the remaining expenditures in project K80202 Water Qual Cap - Drainage Projs City Wide. Thanks in advance for including in FY16 Cap Budget.

Floodplain Modeling (USACE)

K80126

	\$250,000				\$250,000
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Updating of existing and development of new floodplain models for submittal to FEMA. Partnership with US Army Corps of Engineers for Regional Flood Warning system. Funds will be used to hire companies to survey streams for in-house modeling efforts and supplement in-house staff with consultant services as needed. FY15 = \$250k guages/monitoring;

Manufacturer's Road @ US27 Off Ramp

K80137

	\$775,000				\$775,000
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Conceptual design by Jones & Jones and Volkert. TDOT is providing rough grading of the ponds and other grade work as part of their US27 project to be completed in Dec. 2014. After completion of the TDOT project, the City would let a project to perform fine grading and other ammenities (FY16)

US27 Downstream Improvements

K80138

	\$100,000				\$100,000
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Located inside combined sewer area; Explore cost share with ISS. Green infrastructure and/or drainage improvements in coordination with TDOT along US-27 south of the Tennessee River.

WPA System Rehabilitation

K80303

	\$450,000				\$450,000
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FY2013 RFP, Bid, Selection, Award; FY2014 System Assessment, Documentation and Prioritization; FY2015 - FY2018 Repair & Replacement Program based on Assessment and Prioritization Data.

Drainage System Retrofits

K80206

	\$50,000				\$50,000
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Retrofitting City infrastructure (public rights-of-way and/or drainage systems) with LID concepts or water quality devices. \$25K for maintenance and RETROFITS of SFR detention facilities for volume reduction, flood control, wq, channel protection goals identified in NPDES permit and adopted RMG ordinances. \$25K for SFR raingarden rebate program. For improvement of water quality under NPDES Permit #TN068063 and adherence to development peak rate attenuation per codes. Costs will increase, as indicated, as more facilities are assessed, inventoried as program progresses. FY16 will include planning level assessment and minimal installation to kick-start program.

St. Elmo Avenue Storm Drainage Improvement

K80139

	\$1,250,000				\$1,250,000
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The Riverwalk is currently funded through Tennessee Enhancement Grant funds from Middle Street to Tennessee Avenue. The drainage work would be in conjunction with Streetscaping, pedestrian and bicycle improvements along this portion of the corridor. The work should be performed prior to construction of the Riverwalk project. In addition ISS improvements should be made at the same time to correct similar issues in capacity, routing issues and I&I reduction, estimate \$600K

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East Lake WQ Restoration	K80143			\$300,000	\$300,000	\$400,000	\$1,000,000
<p>Mult-phase approach to plan/construct. 1st phase to hire consultant w/ecology, lake restoration, remediation and construction management experience. They will perform initial WQ assessment, lake remediation, construction recommendations and shoreline enhancement design. Then draft a plant & fishery action plan for the ongoing lake management. Also in Phase 1, in-house WQP staff will design WQ BMP's at various locations to reduce inflows of future pollutant's including sediment. The educational component will be a partnership with the WQP. Addnl. phases include the in-house WQ design and eventual construction. Received \$200 grant available in FY16/FY17 (\$100k available now and \$100k for FY16/17).</p>							
On-Call Landscape Design	K80146			\$100,000		\$100,000	\$200,000
<p>Green Infrastructure Landscape Design for City Projects. FY19 = Given RMG regulations for landscape, WQ projects are required to have vegetation designs from a licensed L.A.</p>							
CPD/HC Firing Range	K80142			\$40,000			\$40,000
<p>A comprehensive plan was implemented to prevent or minimize stormwater pollution from activities at CPD/HC Firing Range. Engineering designs for site remediation were completed in-house.</p>							
Lynnbrook WPA Ditch Improvements	K80303			\$750,000		\$200,000	\$950,000
<p>Phase 2 Design & Property Acquisition for the WPA Ditch Improvements; FY19 = Project partnership with TDOT for required mitigation.</p>							
WQ Operations Building	K80150			\$250,000			\$250,000
<p>Replace the storage building that houses all carpentry equipment and space to store mat for ditch work.</p>							
Riverfront Parkway/MLK, jr Drive Combined Sewer Separation Project	K80148			\$350,000		\$250,000	\$600,000
<p>Install new storm sewers along Riverfront Parkway and MLK, jr Drive to separate the sanitary sewage from the SW runoff. Project consists of up to 1,000 feet of new 36" RCP. FY19 = Phase II of a four phase Sanitary/Stormwater Separation Project. Project will extend from the Phase I installed system at Fulton St, along Riverfront Pky through the intersection with MLK Blvd, and up MLK to Boynton Dr.</p>							
Green Infrastructure SOV Bank	K80144			\$300,000		\$250,000	\$550,000
<p>Partner, through RFQ, with firm(s) for design, installation, monitoring equip. for GI/SOV retrofits on City owned parks, facilities, or other approved property. Purpose is to kickstart WQ coupon trading and banking Stay-on-Volume. Achieved SOV can offset SOV deficiencies on City development projects or be "sold" to design firms in lieu of cash payment for services. Project results in flood reduction, WQ improvements, Outreach, GI amenity, marketable SOV coupons and/or WQ fee reductions.</p>							
Commons Blvd. Culvert Replacement	K80141			\$250,000			\$250,000
<p>Public/Private partnership; Both City and private SW improvements need to occur <u>simultaneously</u>; Pipe size beyond capacity of Yards to install. Requested funds for City to replace undersized culvert on Commons Blvd. near Gunbarrel Rd. to reduce flooding. Project in partnership with private development on the Smoky Bones property. A P³ will be drafted and presented to council outlining the responsibilities of each party, both financially & operationally.</p>							

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Patten Parkway Detention Facility	K80147			\$150,000	\$3,000,000	\$1,000,000	\$4,150,000
Build a 1.2M Gallon capacity Detention Facility under Patten Pkwy, prior to construction of surface improvements. By installing this detention in the system, will alleviate future flooding of the Market St. at 8th St. intersection. Another benefit is the possibility of using stored storm water to irrigate the new lawn at Miller Park, saving future utility cost.							
Warner Park Sewer Separation	K80149			\$100,000			\$100,000
Separate a section of combined sewer to reduce stormwater flows to Moccasin Bend							
3469 Brainerd Road	K80113				\$812,000		\$812,000
Upland watershed is 290 acre SE slope of Missionary Ridge. Terrain drops ~300 feet over one mile. LDA finished with modeling; Construction Drawings needed; Design and construct new storm sewer collection sys. to alleviate flooding of private property and Tunnel Blvd. Existing funds in K80113.							
Appling Street	K80151				\$350,000		\$350,000
Raise roadway & replace undersized culvert causing localized roadway flooding and driving hazard. Also caused Blood Assurance drive entrances to flood delaying deliveries and limiting ingress and egress to their site. CWS to perform work, Mat'ls only.; 600' of road rehab; 520' of 6X4 box culvert;							
Cummings Hwy and I-24	K80152				\$450,000		\$450,000
Failed drainage system on state right of way. TDOT has plans to improve interchange in 2017/2018. possible cost share with the state. Ideal to coordinate project with TDOT to reduce costs and minimize impact to traffic and businesses.							
Davidson Road	K80153				\$1,000,000		\$1,000,000
Design and construct a new segment of Davidson Rd from 7404 Davidson to 7696 Davison with storm drainage improvements.							
GI Prioritization Tool	<i>pending</i>					\$50,000	\$50,000
This will provide additional tools to enhance the deployment of GI on City projects throughout the city.							
Stream Buffer Conservation	<i>pending</i>					\$50,000	\$50,000
This program will reduce nutrients and other pollutants in subsurface flow caused by sediment, pesticides and other materials from entering streams.							
Dartmouth/Five Points Watershed SIP - Phase I	<i>pending</i>					\$350,000	\$350,000
Phase I of a five phase Stormwater Infrastructure Replacement Project. Rapid development in past years has caused increased runoff potential in the area and taxed an undersized, aging system.							
Avondale YFD GI Project	<i>pending</i>					\$800,000	\$800,000
Green infrastructure components of City project							
Green Alley Program	<i>pending</i>					\$150,000	\$150,000
To redevelop existing alleys by means of improved water quality and place making.							

WATER QUALITY CAPITAL APPROPRIATIONS

\$12,762,000 \$7,102,000 \$3,300,000 \$10,712,000 \$4,625,000 \$38,501,000