



# Drainage

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## FY 2018-19 Budget Presentation

# Drainage History

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- Prior to FY 1999 the Drainage Program was funded by the General Fund.
- The FY 1999 Drainage budget consolidated watershed management, drainage operation and maintenance, storm water regulatory compliance and capital improvements into the Wastewater fund. Drainage expenses were supported by Water (70%) and Wastewater (30%) revenues.
- In late 2000 staff examined the funding requirements of the existing drainage program and the level of revenue required to fund the following items:
  - Drainage O&M
  - Storm Water Program
  - Street Sweeping Program
  - \$1-2 million/year for a limited capital program
- On January 8, 2002 and following public hearings, the City Council approved the drainage fee through Ordinance No. 2002-019.

# Drainage Cost Containment Strategies

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- Budgeted salary savings of \$17,000 (vacancies and turnovers)
- Revenue fund small capital improvement projects
- Utilize mapping to reduce personnel time

# Drainage Assumptions

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- No change to current fee schedule
- Drainage fee calculated based on square feet of impervious surface
- Drainage reserve of \$1 million (previously in Wastewater) – to be used for emergency responses and repairs during and after catastrophic weather events
- Revenue from the Drainage fee can only be used for drainage – O&M, related debt service, and storm water portion of watershed protection.

# Drainage

## Future Risks and Mitigation

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### Aging infrastructure -

- Replace/upgrade old lines, determine need for future CIP based on hundred year flood

### Public safety -

- Fund CIP to improve channels, pipes, and road crossings for smaller projects

### Contractor costs for CIP Projects -

- Cost continue to increase – mitigate with internal crews

# Drainage

## 5 Year Forecast –

	Actual FY 2017	Budget FY 2018	Estimate FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
<b>Revenues (x 1,000)</b>								
Rate Revenue	\$4,646	\$4,673	\$4,650	\$4,727	\$4,778	\$4,829	\$4,883	\$4,938
Non Rate Revenue	611	468	524	357	372	373	385	396
Wastewater Resources	-	-	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	<b>\$5,257</b>	<b>\$5,141</b>	<b>\$5,174</b>	<b>\$5,084</b>	<b>\$5,150</b>	<b>\$5,203</b>	<b>\$5,268</b>	<b>\$5,334</b>
<b>Expenditures (x 1,000)</b>								
O&M	\$2,224	\$2,814	\$2,604	\$3,015	\$3,077	\$3,126	\$3,214	\$3,305
Revenue Funded Capital	1,793	1,046	1,267	965	948	1,137	1,239	1,326
Transfers (Internal and External)	594	603	625	626	646	663	683	703
Debt Service	636	678	678	477	478	276	132	-
<b>TOTAL EXPENSES</b>	<b>\$5,247</b>	<b>\$5,141</b>	<b>\$5,174</b>	<b>\$5,084</b>	<b>\$5,150</b>	<b>\$5,203</b>	<b>\$5,268</b>	<b>\$5,334</b>
<b>Net Income</b>	<b>\$10</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<b>Rate Increases</b>	0%	0%	0%	0%	0%	0%	0%	0%
<b>RESERVE BALANCES</b>								
Drainage Reserve	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000

# Drainage Budget Highlights

Revenues	FY 2014-15 Actuals	FY 2015-16 Actuals	FY 2016-17 Actuals	FY 2017-18 Budget	FY 2017-18 Estimate	FY 2018-19 Proposed
Drainage Fee	4,610,718	4,496,319	4,645,817	4,673,206	4,649,762	4,727,006
Transfer In – General Fund	513,030	500,555	515,249	424,030	424,030	312,956
Auction Proceeds	19,716	148,833	95,443	43,800	100,000	43,800
<b>Total</b>	<b>5,143,464</b>	<b>5,145,707</b>	<b>5,256,509</b>	<b>5,141,036</b>	<b>5,173,792</b>	<b>5,083,762</b>

# Drainage Budget Highlights

Expenses	FY 2014-15 Actuals	FY 2015-16 Actuals	FY 2016-17 Actuals	FY 2017-18 Budget	FY 2017-18 Estimate	FY 2018-19 Proposed
Personal Services	1,609,411	1,633,645	1,447,727	1,773,782	1,537,953	1,893,276
Materials & Supplies	50,071	59,704	45,991	82,425	82,120	76,075
Maintenance & Repair	95,201	61,543	82,066	134,300	122,200	123,300
Insurance	24,373	24,078	2,992	25,461	25,461	35,767
Miscellaneous	14,482	15,261	16,173	16,000	16,000	17,200
Operations	529,868	476,044	322,261	533,175	512,910	620,325
Bad Debt	2,371	4,906	14,515	16,356	18,599	16,545
Capital Outlay	1,217,878	1,368,383	2,084,885	1,278,581	1,555,786	1,197,636
General Obligation Debt Service	609,997	553,529	636,357	677,790	677,790	477,433
WW Revenue Debt Service	449,761	394,928	-	-	-	-
Cost of Service - General Fund	150,844	218,129	219,056	210,572	210,572	216,889
Other Transfers	377,557	360,697	374,527	392,594	414,401	409,316
<b>Total</b>	<b>5,131,814</b>	<b>5,170,847</b>	<b>5,246,550</b>	<b>5,141,036</b>	<b>5,173,792</b>	<b>5,083,762</b>



# Drainage

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## Departmental Presentation

# Drainage Goals and Accomplishments

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## Accomplishments for 17-18

- Installation of Storm Drains –
  - Canterbury Ct.
  - Kingswood Ct.
  - Rockwood

## Goals for 18-19

- Installation of Storm Drains –
  - South Bell
  - Smith & Johnson
  - Oaktree Drive
  - Choctaw

# Drainage Budget Emphasis

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- Improve storm drain system to protect citizens from potential flooding risk
- Maintain storm drain system reducing amount of silt and debris going to the lake
- Reduce standing water to minimize Mosquito population
- Maintain regulatory compliance with TCEQ Municipal Separate Storm Sewer System (MS4) permit (Watershed Protection)

# Drainage Process Improvements

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## Completed Process Improvement

- Mapping the storm water system for Pecan Creek
- Improve the inlet inspection process utilizing mapping
- Customer response tracking

## Future Process Improvement

- Complete mapping of the storm water system for Cooper Creek and Hickory Creek
- Utilize mapping system to track storm water asset inspections
- Analyze need for adding additional street sweeper due to anticipated growth
- Update Drainage CIP Plan for current needs and future replacement of aging infrastructure

# Drainage Position Summary

Personnel (FTE)	FY 2014-15 Actuals	FY 2015-16 Actuals	FY 2016-17 Actuals	FY 2017-18 Budget	FY 2017-18 Estimate	FY 2018-19 Proposed
Regular	21.00	21.00	21.00	20.00	20.00	21.00
Temporary/Seasonal	1.50	1.50	2.50	2.50	2.50	2.50
Total	22.50	22.50	23.50	22.50	22.50	23.50

## Additional FTE's

Department	Position	FTE	Position Description
640750 – Watershed	Stormwater Inspector	1	Maintain regulatory compliance. Both the number of active construction sites and acreage of disturbed land have increased beyond the capacity of one stormwater inspector. Monthly averages of number of construction sites by FY are: FY15 = 103, FY16 = 140, FY17 = 169, partial FY18 = 174. Disturbed acreage has grown from approximately 1,500 acres in FY15 to 2,200 acres in FY18. Industrial sites are now required to be inspected for storm water compliance.

# Drainage

## 5 Year Capital Plan

Group	Assignment Categories	2019	2020	2021	2022	2023	Total
003	003-BUILDING CONSTRUCTION	\$1,000,000					\$1,000,000
015	015-DRAINAGE	\$46,000	\$46,000	\$46,000	\$46,000	\$46,000	\$230,000
016	016-DRAINAGE IMPROVEMENTS	\$2,805,000	\$1,400,000	\$1,091,338	\$830,000	\$830,000	\$6,956,338
050	050-VEHICLES	\$257,500	\$520,000	\$310,000	\$395,000		\$1,482,500
<b>Grand Totals</b>		<b>\$4,108,500</b>	<b>\$1,966,000</b>	<b>\$1,447,338</b>	<b>\$1,271,000</b>	<b>\$876,000</b>	<b>\$9,668,838</b>
Revenue		\$4,108,500	\$1,966,000	\$1,447,338	\$1,271,000	\$876,000	\$9,668,838
Utility Bonds							
<b>Grand Totals</b>		<b>\$4,108,500</b>	<b>\$1,966,000</b>	<b>\$1,447,338</b>	<b>\$1,271,000</b>	<b>\$876,000</b>	<b>\$9,668,838</b>

### Revenue Funded Capital Projects in FY19-23 CIP

- Choctaw Drainage \$1,250,000
- Kingsrow Detention Pond Outfall \$180,000
- Main Pecan \$1,000,000
- Oaktree Drive Drainage \$1,400,000
- Service Center Renovation \$1,000,000

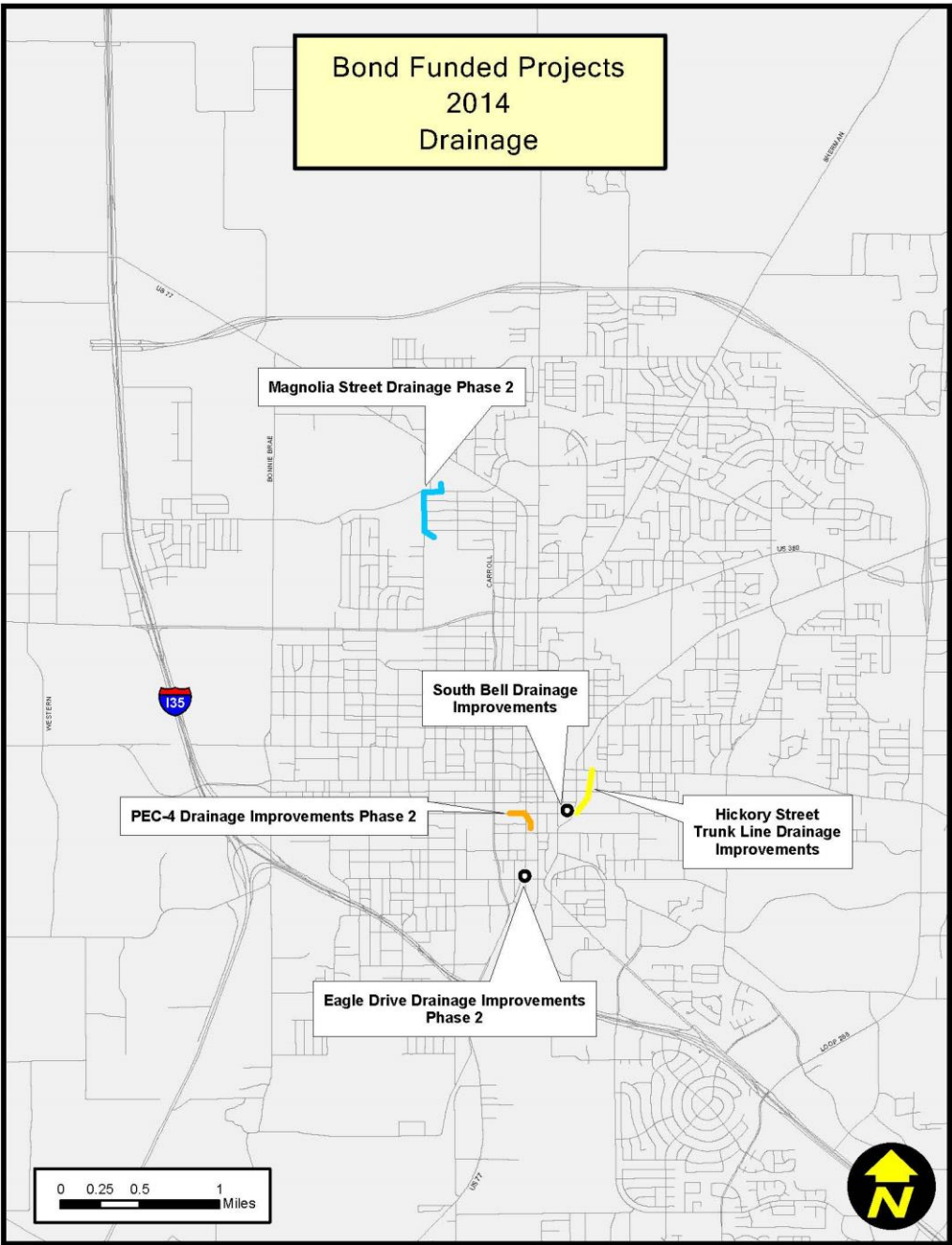
# Drainage 2014 G.O. Bond Funded Projects

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Eagle Drive Improvements: Phase 2	\$ 2.3 M
Magnolia Street Drainage Phase 2*	\$ 4.5 M
PEC-4 Drainage Improvements: Phase 2	\$ 2.5 M
Hickory St. Drainage & Trunk Line System (Downtown)*	\$ 0.6 M
Oak Street Drainage (Downtown)*	\$ 0.2 M
South Bell Drainage System (Downtown)*	<u>\$ 0.8 M</u>
	\$10.9 M

\*Include revenue funding from drainage channel rehabilitation account.

Bond Funded Projects  
2014  
Drainage



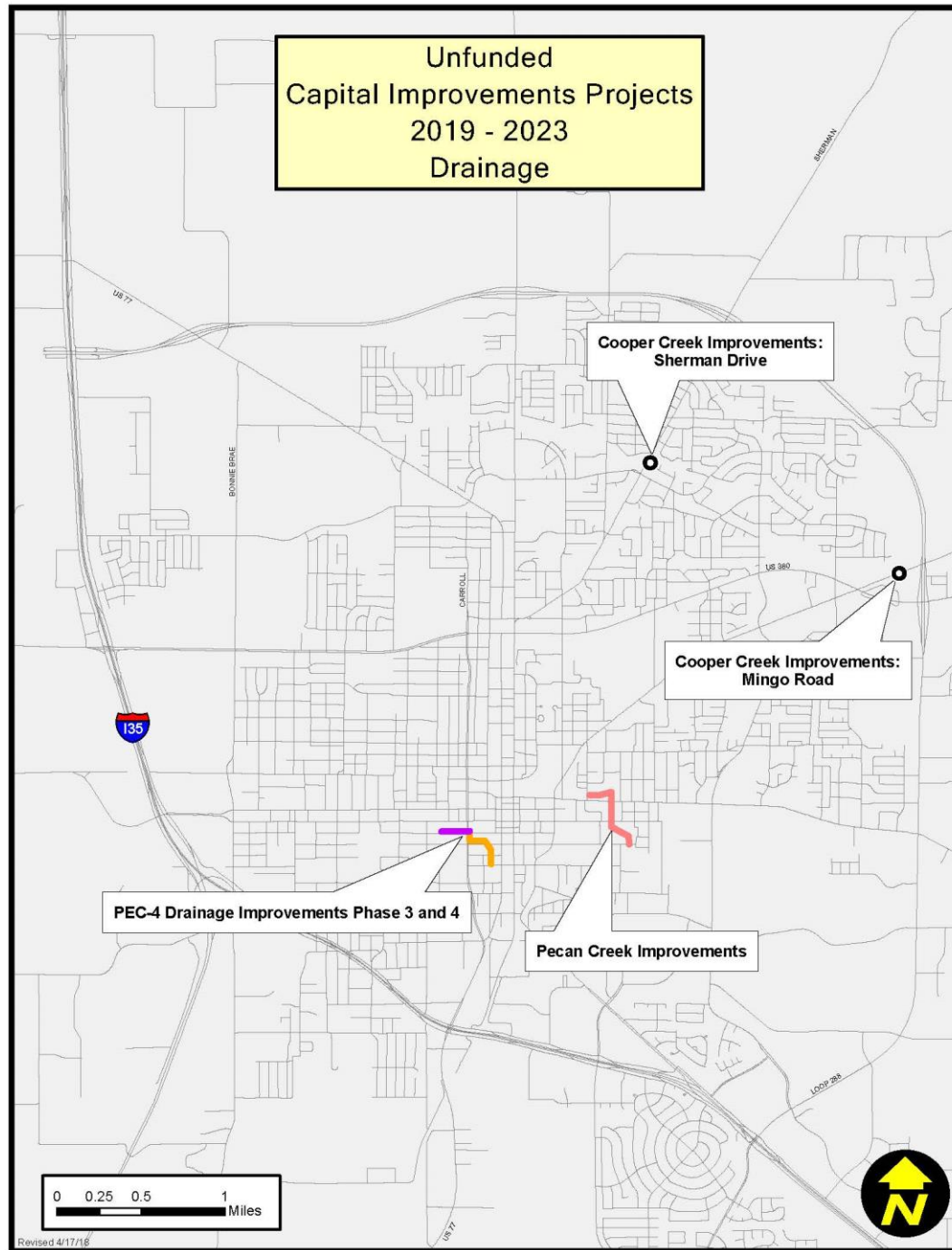


# Drainage Future G.O. Projects (unfunded)

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Cooper Creek Improvements: Mingo Road	\$ 2.1 M
Cooper Creek Improvements: Sherman Drive	\$ 1.1 M
PEC-4 Drainage Improvements: Phase 3 & 4	\$10.0 M
Pecan Creek Improvements	<u>\$13.7 M</u>
	\$26.9 M

Unfunded  
Capital Improvements Projects  
2019 - 2023  
Drainage





# Drainage

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## Questions / Comments