CITY OF MARSHALL

COMMISSION AGENDA INFORMATION SHEET:

MEETING DATE: January 14, 2016

PROJECT: Consider a presentation regarding Proposed 2016 Water & Sewer Capital Improvements program. (Public Services Director)

DESCRIPTION:
Attached is a Water and Sewer Capital Improvement Program covering the five year period of 2016 through 2020. Also attached is a spreadsheet showing a detailed list of our proposed 2016 water and sewer improvements, detailed alternate, 2016 projects & future possible 2020 Program projects.

Of special note are the proposed 2016 projects:

- Buck Sherrod 6" Water Line – from Highway 80 (Victory Drive) southward 500 ft. past the Soccer Complex; will service the Soccer Complex and several homes (in the County) south of the Soccer Complex; part of future annexation master plan.
- Spring Street 6" Water Line – replacing an aged and corroded line on Spring Street from Sanford Street, eastward to Smith Park and then looped into a water line on Alvin Street; this is a CDBG funded project.
- Turtle Creek Sewer Line – replacing an existing 15" sewer line that runs under six homes and increase the capacity to 18" to help serve the sewer main flows from upstream of Turtle Creek.

As you will notice in the attached detailed Proposed 2016 Improvement Plan, estimated expenses on the three 2016 projects exceed our budgeted revenue by approximately $163,500.00, but similar to our annually estimated street program, we can address the final cost (plus or minus) after we have actual bids tabulations in hand. In addition, the Turtle Creek project is large enough that it will be under construction during 2016 and 2017, so some expenses would not be expensed in our budget until 2017.

FUNDING:	**Acct. Name & No**	**Original Budget**
	Various Funds	$1,140,500.00

RECOMMENDED CITY COMMISSION ACTION:
Consider approval of the attached Proposed 2016 Water & Sewer Improvement Program.

CITY CONTACT: J. C. Hughes, Public Services Director - 903-503-4503

ATTACHMENTS:
Water Utility – Five Year Capital Improvement Program
2016 Water & Sewer Improvement Program

cc: File

CITY OF MARSHALL
2016 WATER & SEWER IMPROVEMENT PROGRAM - DRAFT V1 01-14-16

CITY COMMISSION
DRAFT 01-14-2016

J. C. Hughes
903-503-4503 (cell)

REVENUE	2016 Revenue Estimates	COST SUMMARY:	Estm'd Costs	Balance
Water Utilities - 2016	$872,000.00	Water Line Extend/Replace	$398,500.00	
CDBG Funds	$105,000.00	Sewer Line Extend/Replace	$540,000.00	
Misc Funds	$0.00	Lift Station Pumps & Motors	$97,000.00	
Misc Funds	$0.00	Manhole Rehabs (reduce inflow)	$25,000.00	
Misc Funds	$0.00	Recoat Clearwell Roof	$65,000.00	
Misc Funds	$0.00	Smoke Testing (leak detection)	$15,000.00	
Misc Funds	$0.00	Sub-Total In-House Repairs	$202,000.00	
Misc Funds	$0.00		$0.00	
Total Revenue	$977,000.00	Estimated Costs - Projects	$1,140,500.00	-$163,500.00

ALPHA LISTING OF 2016 PROPOSED IMPROVEMENTS AND TYPE IMPROVEMENT - Does not include Alternate W/WW Projects

LOCATION or STREET	COND	FROM	TO	Repair	Replace	New Line	Reconstruct	In-House	City/County	CDBG	Notes
Buck Sherrod Road - Water	New	Highway 80 (Victory Dr.)	Southward 7,000 ft to Soccer			X					500 Ft Past Soccer Complex
Spring Street - Water	4	Sanford Street	Smith Park and Alvin Street		X						Replace Existing & Loop Line
Turtle Creek - Waste Water	4	Moore Street	West of Garrett Street		X						Replace Under Houses

2016 NEW WATER LINES - EXTEND/REPLACE

STREET	COND	FROM	TO	Engineering	Surveying	Bonds/Ins	Hydrants	Priv. Services	Construction	Contingency	Estimated Project Cost
Buck Sherrod Road	New	Highway 80 (Victory)	Southward 7,000 feet	$26,500.00	$5,000.00	$10,000.00	$22,000.00	$10,000.00	$195,000.00	$25,000.00	$293,500.00
Spring Street (CDBG)	4	Sanford Street	Smith Park and Alvin Street	$14,500.00	$3,000.00	$5,000.00	$5,000.00	$5,000.00	$70,000.00	$2,500.00	$105,000.00
											$0.00
											$0.00
											$0.00
											$0.00
											$0.00
			Totals	0	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	**$398,500.00**

2016 NEW SEWER LINE - EXTEND/REPLACE

STREET	COND	FROM	TO	Engineering	Surveying	Bonds/Ins	Street Repair	Priv. Services	Construction	Contingency	Estimated Project Cost
Turtle Creek Sewer Main	New	Moore Street	West of Garrett	$65,000.00	$10,000.00	$15,000.00	$92,000.00	$10,000.00	$286,000.00	$62,000.00	$540,000.00
Time construction in 16/17											
			Totals	0	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	**$540,000.00**

2016 IN-HOUSE PROJECTS

STREET	COND	FROM	TO	Engineering	Surveying	Bonds/Ins	Street Repair	Priv. Services	Construction	Contingency	Estimated Project Cost
Lift Station Pumps &	Rehab	Rehab Various Stations							$97,000.00		$97,000.00
Manhole Rehabs	Rehab	Rehab Various Manholes							$25,000.00		$25,000.00
Recoat Clearwell Roof	Rehab	Recoat Roof							$65,000.00		$65,000.00
Smoke Test Sewer Lines	Test	Test Lines For Leaks							$15,000.00		$15,000.00
			Totals	$0.00	$0.00	$0.00	$0.00	$0.00	$202,000.00	$0.00	**$202,000.00**

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CDBG Funds	$105,000.00	Sewer Line Extend/Replace	$540,000.00	
Misc Funds	$0.00	Lift Station Pumps & Motors	$97,000.00	
Misc Funds	$0.00	Manhole Rehabs (reduce inflow)	$25,000.00	
Misc Funds	$0.00	Recoat Clearwell Roof	$65,000.00	
Misc Funds	$0.00	Smoke Testing (leak detection)	$15,000.00	
Misc Funds	$0.00	Sub-Total In-House Repairs	$202,000.00	
Misc Funds	$0.00		$0.00	
Total Revenue	$977,000.00	Estimated Costs - Projects	$1,140,500.00	-$163,500.00

2016 ALTERNATE PROJECT CONSIDERATIONS - AND - PRELIMINARY FUTURE WATER PROJECTS

ALTERNATE 2016 & FUTURE 2020 PLAN WATER PROJECTS

STREET	COND	FROM	TO	Engineering	Surveying	Bonds/Ins	Street Repair	Priv. Services	Construction	Contingency	Estimated Project Cost
Water Masterplan Update	3\4	Various		$85,000.00	$15,000.00						$100,000.00
Bishop Street - 1,500' of 6"	3\4	Highway 80 (Grand Ave.)	West Houston								$67,500.00
Mark Mack - 6" to 8"	3\4	Carolanne	Martindale								$33,500.00
Lower Port Caddo - 6" to 8"	3\4	Highway 59	Teddy								$170,500.00
Bruckmuller - 6" to 8"	3\4	Grove	North Franklin								$40,150.00
Ida Street - 10" to 12"	3\4	Lake Street	Sledge Street								$52,500.00
East Rusk - 1-1/4" to 8"	3\4	Hazelwood	Blanch								$33,000.00
Ark Street - 6" to 8"	3\4	Elysian Fields	Ross Street								$93,500.00
Pamela Street - 6" to 8"	3\4	Roseborough Springs	Arlington & Arcadia								$154,000.00
Frazier Street - 2" to 8"	3\4	Highway 80 (Grand Ave.)	Bruckmuller								$27,500.00
Nolan Street - 2" to 8"	3\4	Spring Street	West Houston								$82,500.00
Parker Street - 2" to 8"	3\4	East Rusk	Corti Street								$27,500.00
Hynson Springs - 2" to 8"	3\4	Ward Street	Loop 390								$22,000.00
Middle Street - 2" to 8"	3\4	Fulton Street	George Gregg Street								$44,000.00
Alpine Street - 4" to 8"	3\4	South Garrett	Highway 59								$60,500.00
Pinecrest Drive - 6" to 8"	3\4	West Pinecrest	Joyce Street								$39,600.00
East Street - 10" to 12"	3\4	North Grove	Esplande								$76,500.00
			Totals	$85,000.00	$15,000.00	$0.00	$0.00	$0.00	$0.00	$0.00	**$1,124,750.00**

ALTERNATE 2016 & FUTURE 2020 PLAN WASTE WATER PROJECTS

STREET	COND	FROM	TO	Engineering	Surveying	Bonds/Ins	Street Repair	Priv. Services	Construction	Contingency	Estimated Project Cost
Sewer Masterplan Update	3\4	Various		$85,000.00	$15,000.00						$100,000.00
Turtle Creek 1300'-8" to 12"	3\4	Upstream of Turtle Creek	Garrett Street								$195,000.00
Turtle Creek 750"-12' to 15"	3\4	East of Turtle Creek	High School Outfall								$135,000.00
Bishop St. - Replace 1,500'	3\4	Highway 80 (Victory)	Rusk Street								$180,000.00
Airport Road - 1,800' new	3\4	National Guard Armory	Southward 1,800 feet								$216,000.00
East Rusk - Replace 6"	3\4	Hazelwood	Maulding								$30,000.00
			Totals	$85,000.00	$15,000.00	$0.00	$0.00	$0.00	$0.00	$0.00	**$856,000.00**

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DRAFT 01-14-2016

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CDBG Funds	$105,000.00	Sewer Line Extend/Replace	$540,000.00	
Misc Funds	$0.00	Lift Station Pumps & Motors	$97,000.00	
Misc Funds	$0.00	Manhole Rehabs (reduce inflow)	$25,000.00	
Misc Funds	$0.00	Recoat Clearwell Roof	$65,000.00	
Misc Funds	$0.00	Smoke Testing (leak detection)	$15,000.00	
Misc Funds	$0.00	Sub-Total In-House Repairs	$202,000.00	
Misc Funds	$0.00		$0.00	
Total Revenue	$977,000.00	Estimated Costs - Projects	$1,140,500.00	-$163,500.00

TOTAL ALTERNATE 2016 & FUTURE 2020 PROJECTS ESTIMATE: **$1,980,750.00**

WATER UTILITY - FIVE YEAR CAPITAL IMPROVEMENTS PROGRAM - 2020 PLAN

(All project values are in thousands of dollars

2016 - 2020 FIVE-YEAR CIP PLAN

Version #4 - Jan 14, 2016 (jch)

							FUNDING SOURCES					
PROJECT FISCAL YEAR	TOTAL	2016	2017	2018	2019	2020	Bonds	TWDB	CDBG	Util	Reserves	Total
PROPOSED PROJECTS (W/WW UTILITY FUND)												
Water - Annual W-Line Replacements	$ 1,990	$ 440	$ 350	$ 350	$ 400	$ 450			$ 505	$ 1,485		$ 1,990
Water - Annual W-Line Looping	$ 110			$ 25	$ 35	$ 50				$ 110		$ 110
Water - Downtown W-Line Replacements	$ 225			$ 75	$ 75	$ 75				$ 225		$ 225
Water - Hydrant Repairs/Replacements	$ 160		$ 25	$ 35	$ 50	$ 50				$ 160		$ 160
Water - Replace 2" & 4" lines with 6" min.	$ 1,050		$ 200	$ 200	$ 300	$ 350				$ 1,050		$ 1,050
Water - Major 6" W-Line Extend/Replace	$ 675		$ 75	$ 200	$ 200	$ 200				$ 675		$ 675
Water - Major 8" W-Line Extend/Replace	$ 400				$ 200	$ 200				$ 400		$ 400
Water - Major 10" W-Line Extend/Replace	$ 150						$ 150	*Consider in 2021 to 2025 time period				$ 150
Water - Major 12" W-Line Extend/Replace	$ 500						$ 500	*Consider in 2021 to 2025 time period				$ 500
Water - Major 16" W-Line Extend/Replace	$ 750						$ 750	*Consider in 2021 to 2025 time period				$ 750
Water - 10" Treated Water Line - NTMWD	$ 10,230						$ 10,230	*Consider in 2025 to 2030 time period				$ 10,230
Water - Meter Replacement Program	$ 2,500		$ 1,250	$ 1,250				$ 1,250		$ 1,250		$ 2,500
Water - #1 Ground Storage Roof Recoat	$ 65	$ 65								$ 65		$ 65
Water - #2 Ground Storage Roof Rehab	$ 250			$ 250						$ 250		$ 250
Wastewater - Annual I & I Repair	$ 300		$ 50	$ 75	$ 75	$ 100				$ 300		$ 300
Wastewater - Annual Line Replace/Extend	$ 1,335	$ 335	$ 250	$ 250	$ 250	$ 250				$ 1,335		$ 1,335
Wastewater - Annual WW Line Upgrades	$ 375		$ 75	$ 100	$ 100	$ 100				$ 375		$ 375
Wastewater - Annual WW Manhole Rehabs	$ 300	$ 25	$ 50	$ 75	$ 75	$ 75				$ 300		$ 300
Wastewater - Annual Smoke Testing	$ 215	$ 15	$ 50	$ 50	$ 50	$ 50				$ 215		$ 215
Wastewater - Digester #3 Repair	$ 600				$ 600		*Consider in 2021 to 2022			$ 600		$ 600
Wastewater - Downtown WW-Line Upgrade	$ 325		$ 75	$ 75	$ 75	$ 100				$ 325		$ 325
Wastewater - East End Lift Station Replm't	$ 2,000						$ 1,250	$ 750	*Consider in 2021 to 2022			$ 2,000
Wastewater - Bio Filter Media - Bio Towers	$ 1,000				$ 1,000					$ 1,000		$ 1,000
Wastewater - Sludge Press	$ 915						*Consider in 2021/2022			$ 915		$ 915
Wastewater - Replace WWTP Generator	$ 650						$ 650	*Consider in 2021 to 2025 time period				$ 650
Wastewater - Lift Station & Pump Rehabs	$ 632	$ 97	$ 125	$ 125	$ 135	$ 150				$ 632		$ 632
Total - W/WW Utility Fund Projects	$ 27,702	$ 977	$ 2,575	$ 3,135	$ 3,620	$ 2,200	$ 13,530	$ 2,000	$ 505	$ 11,667	$ -	$ 27,702
		Planned Cost of 2020 Program				$ 12,507						