

SPLOST 2020 Program

Transportation & Public Works Department
Proposed Project Presentations
January 16, 2018



Transportation & Public Works Department

Brief Stormwater Background

- Stormwater program is required by State and Federal Law
- Operation/maintenance funding through Stormwater Utility
- Stormwater Utility funds:
 - Federal/State regulatory compliance
 - Inspection to ensure erosion is controlled during land development
 - Water quality monitoring of local waterways
 - Public education and outreach
 - Shoulder and ditch maintenance
 - Storm pipe cleaning and repair
- Stormwater program is required by State and Federal Law
- Capital funding is primarily through SPLOST



SW Utility: designed to support operation impacts only

SPLOST: designated to fund capital projects

Transportation & Public Works Department

Project #18

Live Stream Pipe Replacement



Rebuild failing stormwater infrastructure before it collapses

Transportation & Public Works Department

#18 - Live Stream Pipe Replacement 1 of 7

#18 – Live Stream Pipe Replacement

History of Stormwater Failures

Major failures since September '16:

- Collins at Benning
- Brooklyn Road
- Hemlock Way
- Canady Drive
- Weatherly Woods
- Hidden Lake
- Riverview Road
- Riverbend Parkway
- 558 West Broad
- Barber Street



Averaging nearly one emergency every 2 months



Transportation & Public Works Department

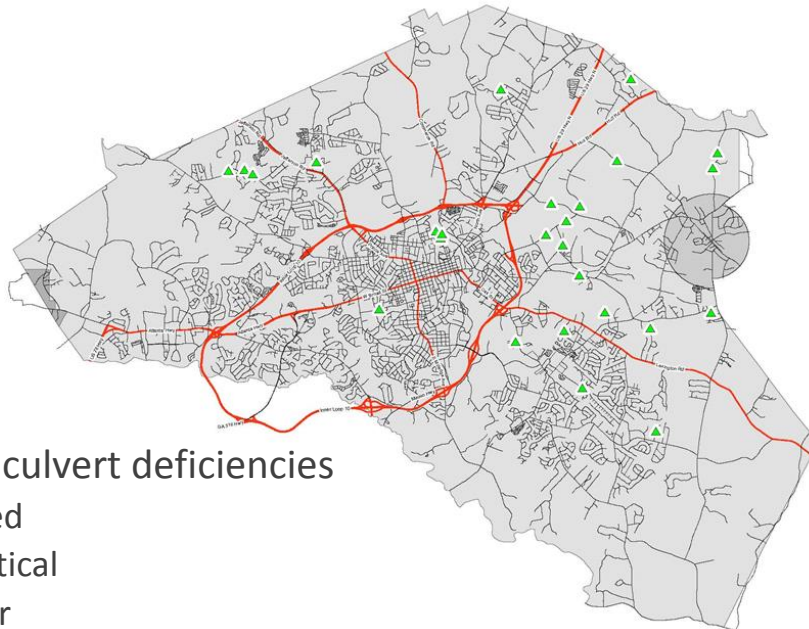
#18 - Live Stream Pipe Replacement 2 of 7

#18 – Live Stream Pipe Replacement Evaluation and Ranking Process



- Collect list of pipes with known structural issue
- Rate each pipe on a score of 1 to 5 considering:
 - Deflection
 - Invert (bottom of pipe) condition
 - Headwall (inlet / outlet structure)
 - Erosion
- Phase 1: collectors, arterials, and dead-end local roadways

Range	Condition/State
$1 < S \leq 3$	Poor (P)
$3 < S \leq 4$	Critical (C)
$4 < S = 5$	Failed (F)



Known culvert deficiencies

- 4 failed
- 17 critical
- 5 poor

Phase I Projects

Live Stream Culvert Condition Assessment (Collectors, Arterials, and Local Roads with Dead Ends)				
Score	F: Failed C: Critical P: Poor	Street Name (Address)	Adjacent feature/road/stream	Total Estimate
4.80	F	Carriage Lane (232)	Dead End	\$ 1,005,000.00
4.60	F	Airport Rd (330)	Dead End	\$ 265,500.00
4.40	F	Lavender Rd	Roberts Rd.	\$ 382,500.00
4.00	C	Crystal Creek Dr (185)	Dead End	\$ 405,000.00
4.00	C	Charlie Bolton Rd (1450)		\$ 220,500.00
3.80	C	Canady Dr (105)	Dead End	\$ 405,000.00
3.80	C	Seagraves Dr (191)	Dead End	\$ 495,000.00
3.60	C	Doe Run (160)	Dead End	\$ 405,000.00
3.60	C	Cleveland Ave (132)	Inert Landfill	\$ 862,500.00
3.60	C	Baxter St (1088-1080)	Athens Neurology R/W	\$ 1,072,500.00
3.60	C	Lavender Rd	Albelia Way.	\$ 220,500.00
3.60	C	Olympic Dr	SW of Hancock Ind. Way.	\$ 487,500.00
3.60	C	Voyles Rd (1270)		\$ 637,500.00
3.40	C	Lombardy Dr (282)	Dead End	\$ 265,500.00
3.40	C	Cleveland Ave	College Ave.	\$ 697,500.00
3.40	C	Winterville Rd (1958)	E of Hancock Rd.	\$ 220,500.00
3.40	C	Olympic Dr	Transmission R/W	\$ 1,035,000.00
3.40	C	Olympic Dr (1350)	Trail Creek	\$ 1,072,500.00
3.40	C	College Ave (1005)	Charm Site	\$ 1,035,000.00
3.20	C	Cedar Sholas Dr (1325)	SE of Cedar Shoals HS.	\$ 765,000.00
3.00	P	Athens Dr	Trail Creek	\$ 1,035,000.00
2.40	P	Beaver Ridge Dr (115)	Dead End	\$ 405,000.00
1.80	P	Charlie Bolton Rd (1143)		\$ 922,500.00
1.80	P	Lavender Rd	Maple Forge Dr.	\$ 922,500.00
1.60	P	Hancock Ind. Way	NE of Hancock Rd.	\$ 235,500.00
Total Program Estimate:				\$15,475,500.00

Transportation & Public Works Department

#18 - Live Stream Pipe Replacement 5 of 7

Phase II Projects

Pipe Number	Address	Pipe Size	Drainage Area (acres)	Watershed
2	252 N Pope Street	42"	22.2	Tanyard Creek
2.1	Reese Street	42"	42	Tanyard Creek
2.2	133 N Church Street	42"	30.8	Tanyard Creek
4	125 Riverbottom Circle - upstream (south)	8" x 6"	416	Middle Oconee River
4.1	101 Riverbottom Circle - downstream (north)	8" x 6"	435	Middle Oconee River
6	200 Hemlock	36"	115	Sandy Creek/Noketchee Creek
7	Paris Street just south of Campbell	60"	102	Brooklyn Creek
7.1	Minor Street	72"	161	Brooklyn Creek
7.2	190 Hills Chapel Street	7" x 9"	454	Brooklyn Creek
7.3	905 Waddel Street	7" x 10"	570	Brooklyn Creek
9.2	196 Hillsborough Drive	18"	0.4	Middle Oconee River
9	281 Woodhaven Drive	48"	56	Middle Oconee River
9.1	221 Woodhaven Drive	42"	101	Middle Oconee River
10	605 Riverbend Pkw (pool house)	36"	25	North Oconee River
14	345 Millstone Circle	48"	45	Shoal Creek
14.1	270 Millstone Circle	36"	25	Shoal Creek
16	6085 Hickory Drive	18"	13.6	Shoal Creek
21	111 Jones Road	18"	5.4	West Fork Trail Creek
23	205 Walton Creek Road at Thornhill	24"	32	Walton Creek
24	330 Idylwood Drive (south - downstream)	60" & 48"	186	Oconee River
24.1	255 Idylwood Drive (north - upstream)	60"	115	Oconee River
26	385 Old Epps Bridge Road	48"	35	Middle Oconee River
27	159 Hunters Crossing	18"	8	Middle Oconee River
29 / 29.1	126 Lake Drive	36"	102	Middle Oconee River
30	197 Crossbow Circle	60" & 96"	1152	Shoal Creek
31	270 West Huntington Road	18"	15.4	Middle Oconee River
32	565 Roberts Road	48"	224	Turkey Creek
20	185 Crystal Creek Drive	30"	5.4	West Fork Trail Creek

Transportation & Public Works Department

#18 - Live Stream Pipe Replacement 6 of 7

#18 – Live Stream Pipe Replacement

Impacts of Not Funding

- Loss of vehicular / emergency access
- Utility outages (water, gas, power, etc.)
- Environmental damage (wash-outs)
- Impact to General Fund or SW Utility
- Impact to Streets & Drainage operational capacity
- Likely increase to SW Utility ratepayers (≈\$14/year typical)

