

Engineering / Traffic Operations Center (TOC)

Paul P. Holzen, Director

ENGINEERING

The Engineering Department plans for the future infrastructure needs of the City of Franklin and consists of three divisions. The divisions include Engineering, Traffic Operations and Stormwater. The department works with other City Departments, elected officials, and the public to ensure that our infrastructure is designed and installed properly and that it meets all Local, State and Federal standards and guidelines. Both City-funded and private infrastructure projects are managed and reviewed by the Engineering Department.

The Traffic Operations Division manages the transportation network within the City of Franklin and is responsible for signal timing. A goal of the Traffic Operations Division is to perform timing optimizations for signal systems. Currently there are three major systems in the City - Cool Springs, SR 96 E (Murfreesboro Rd.), and Downtown (Main St, Fifth Ave, Columbia Ave). An optimization is like a tune-up for a car engine. Everyone that uses those optimized systems saves time and fuel over the previous conditions they may have experienced.

The Stormwater Division helps the City maintain compliance with mandates set by the Federal (EPA) and State (TDEC) Governments to minimize stormwater runoff pollution. Under the Clean Water Act of 1972, the Environmental Protection Agency (EPA) requires municipalities like Franklin to manage stormwater. The City has received a Phase II Municipal Separate Storm Sewer System (MS4) Permit from the Tennessee Department of Environment and Conservation (TDEC) to allow Franklin to discharge stormwater into nearby rivers and streams.

TRANSPORTATION OPERATIONS CENTER (TOC)

The Traffic Operations Center (TOC) provides traffic management services to the City of Franklin. The center currently manages 103 traffic signals and 22 Closed Circuit Television (CCTV) cameras. In past years the TOC has worked towards providing better traffic flow throughout the City through the Congestion Management Program. That program requires data collection at each of those intersections every 3 years and optimizing the signal timing in each of the City's main corridors.

That work continues as we work towards providing a communications network that allows us to manage and monitor traffic conditions better. FY 2012-2013 provided a major increase in the infrastructure necessary to provide this service when we increased our CCTV cameras from 12 to 22 and the number of traffic signals we communicate directly with from 52 to 66.

The TOC will be addressing new challenges as we move into the future. First will be the Comprehensive Transportation Network Plan which will study the transportation network with attention to the roadway network, bike and pedestrian facilities and transit. This study will replace the traditional Major Thoroughfare Plan Update and will provide a more complete planning document for use by the city in applying for Federal Highway Administration or Federal Transit Administration funding. The second challenge is to deploy an Adaptive Traffic

Signal Control System in the Cool Springs Area. This action will provide the benefits of constant signal optimization.

Traffic Data Collection Program:

Traffic Counts or Data Collection have been and continue to be the most basic building blocks of any traffic management system. With the rapid growth and development of the City of Franklin in the recent past, traffic volumes have also grown and developed. This program was designed to perform “turning movement counts” for each peak hour at each of our nearly 103 signalized intersections every three years.

1. SR 96 E, Mack Hatcher and Hillsboro Rd Corridors.
2. Cool Springs Blvd, Carothers Parkway and Mallory Lane Corridors.
3. Downtown Franklin, SR 96 W and Franklin Road Corridors.

The data collected is used to develop traffic signal timing plans that will best move traffic with highest degree of safety and minimal delay. By utilizing traffic modeling software, we develop intersection timing plans that best manage those rush hour flows.

Traffic Signal Timing Optimization Program:

Traffic Signal Optimization is the primary activity utilizing the data collected by the Annual Traffic Data Collection Program. A 2005 Institute of Transportation Engineers White Paper on *Benefits of Retiming Traffic Signals* states, “An operating agency with a budget to retime traffic signals every 3 years, especially in developing areas and/or areas with sustained growth, will maintain a high quality of traffic operations.”

STORMWATER

One of the Stormwater Division’s goals is to reduce and eliminate non-stormwater flows (called illicit discharges) from the City of Franklin Municipal Separate Storm Sewer System (MS4) to improve water quality in the Harpeth River Watershed. MS4s discharge directly to rivers and streams without being treated at a treatment plant. This means whatever washes into the city’s storm sewer system ends up in our rivers and streams. By monitoring each outfall point, the City is able to identify and eliminate sources of water pollution. The City will inform public employees, businesses, and the general public of the hazards associated with illegal discharges and improper disposal of waste. The public can report suspected illicit discharges via the City website or the Stormwater Pollution Hotline (615-791-3218). Documented illicit discharges will be eliminated as soon as possible.

RIGHT-OF-WAY

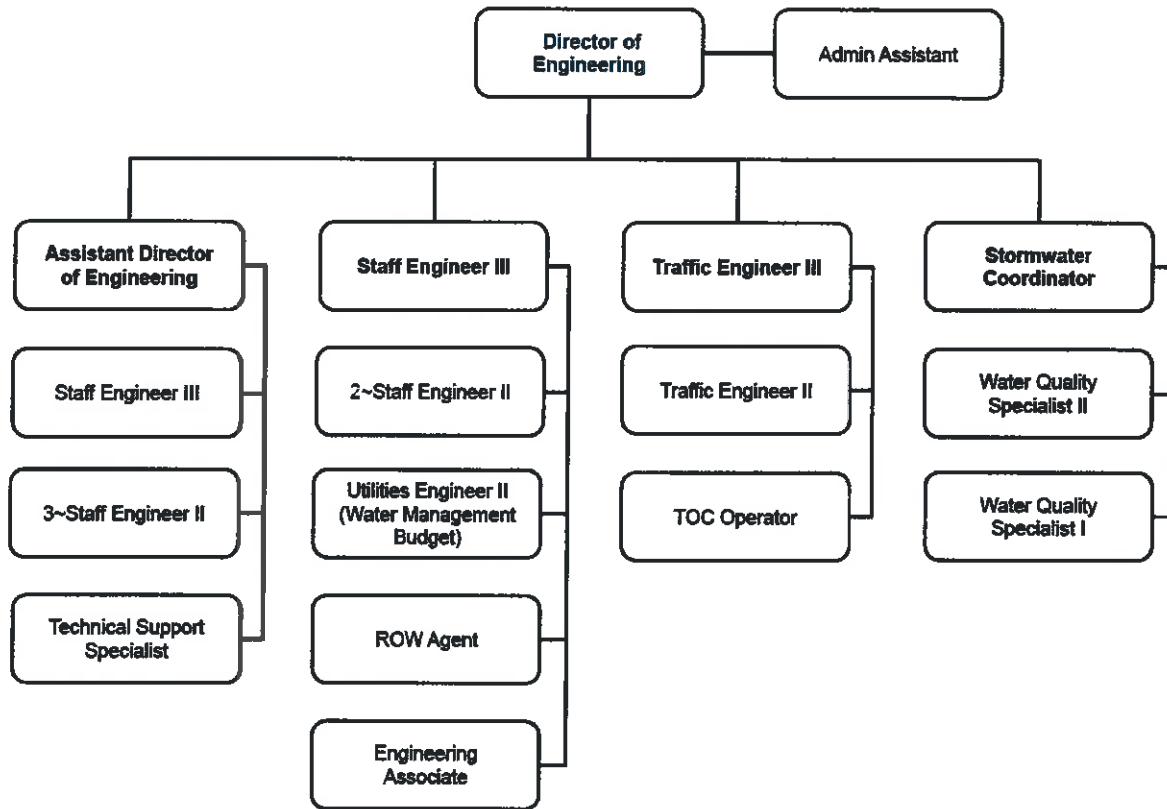
When meeting with property owners to acquire right-of-way and easements we strive to give the property owner all the information about the upcoming project. We also work extremely hard to meet with affected property owners on more than one occasion (even before or after normal working hours). Although it is our goal to get all documents signed without using condemnation, it is not always possible. Some property owners are unwilling to work with the city, others will not respond to certified mail or phone messages. When this situation persists, we have no choice but to enter into condemnation proceedings. This performance measurement

is comparing how many properties were to be acquired, how many were successfully acquired without condemnation and how many times the city entered into condemnation. In the future we will also be keeping up with the number of times we made contact or met with property owners. We hope this information will be helpful in the future for budgeting, staffing and scheduling needs.

The Right-of-Way Goal for the Engineering Department is to successfully acquire 80% of the properties through negotiations (without having to go into condemnation proceedings). See the chart below for the most recent property acquisition data:

PROJECT NAME	TOTAL NUMBER OF PROPERTIES	NUMBER OF OFFERS	SIGNED, AGREED OR CLOSED	CONDEMNATIONS
Hillsboro Road (SR96-Independence Square)	43	43	36	7
I-65 Water and Sewer	9	9	6	3
McEwen Drive Connector	4	4	3	1
Hillsboro Road (Independence Square to Mack Hatcher)	17	0	0	0
Century Beasley Connector	1	1	0	0
Mack Hatcher Water and Sewer	4	0	0	0
McEwen Drive at Wilson Pike	5	5	3	2
Southwinds Drive	1	1	1	0
TOTAL	84	63	49	13
			79%	21%

Organizational Chart



Note 1: Stormwater Management Coordinator & Water Quality Specialist included in Stormwater Personnel.

Note 2: Traffic/Transportation Engineer, ITS Project Manager, and ITS Specialist included in TOC Personnel.

Note 3: Utilities Project Manager funded through Water Management Department

Staffing by Position

**City of Franklin
2013-2014 Fiscal Year Budget
Personnel by Position**

Engineering Department

Position	Pay Grade	FY 2014			FY 2015		
		Full-Time	Part-Time	Not Funded	Full-Time	Part-Time	Not Funded
Director of Engineering	L	1	0	0	1	0	0
Assistant Director of Engineering	J	1	0	0	1	0	0
Staff Engineer III	I	2	0	0	2	0	0
Staff Engineer II	H	4	0	0	4	0	0
Staff Engineer I	G	0	0	0	0	0	0
Right of Way Agent	G	1	0	0	1	0	0
Technical Support Specialist	E	1	0	0	1	0	0
Engineering Associate	TBD	0	0	0	1	0	0
Administrative Asst.	D	1	0	0	1	0	0
TOTALS		11	0	0	12	0	0

Narrative of Personnel Changes	New Position		Reclassification		
	Title	Pay Grade (Actual if known or Anticipated)	From Job Title	To Job Title	Pay Grade (if reclassification creates new job title)
Add Engineering Associate	Engineering Associate	TBD			

Departmental Career Development Path	Pay Grade	Requirements		
		Degree	Experience	Certifications

Traffic Operations Center (TOC)

Position	Pay Grade	FY 2014		FY 2015	
		Full-Time	Part-Time	Full-Time	Part-Time
Traffic/Transportation Engineer	I	0	0	0	0
Traffic Engineer I(B)	I	1	0	1	0
TOC Supervisor I	G	0	0	0	0
Traffic Engineer II	TBD	1	0	1	0
TOC Operator	E	1	0	1	0
		3	0	3	0

Narrative of Personnel Changes	New Position		Reclassification		
	Pay Grade	From Job Title	To Job Title	Pay Grade (if reclassification creates new job title)	

Departmental Career Development Path	Pay Grade	Requirements		
		Degree	Experience	Certifications

Budget Notes/Objectives *Engineering*

- The Engineering Department is requesting 1 additional position. This would include an Engineering Associate to help with the management of capital projects to included permits, invoices, budget management and contract management.



2015 Budget - 11041600 ENGINEERING
3/7/2014 8:21:43 AM

Account	Label	Actual 2012	Actual 2013	Budget 2014	Estd 2014	Budget 2015	Forecast 2016	Forecast 2017	Forecast 2018
Personnel									
= 81110	REGULAR PAY	519,516	522,533	585,768	565,000	700,486	721,501	743,146	765,440
81120	OVERTIME PAY	232	78	150	150	200	200	200	200
81199	VACANCY ADJUSTMENT			(20,502)		(24,517)	(25,253)	(26,010)	(26,790)
= XWAGE	TOTAL WAGES	519,748	522,611	565,416	566,160	676,169	696,448	717,336	738,850
= 81410	FICA (EMPLOYER'S SHARE)	37,849	38,413	44,811	42,500	53,587	55,195	56,850	58,556
= 81420	MEDICAL PREMIUMS	101,575	98,779	106,496	105,200	108,846	112,111	115,475	118,839
= 81430	GROUP INSURANCE PREMIUMS	9,561	9,418	10,183	10,000	10,986	11,326	11,866	12,016
= 81440	EMPLOYEE INSURANCE CONTRIBUTIONS	(21,152)	(20,019)	(23,988)	(22,700)	(22,971)	(23,680)	(24,370)	(25,101)
81450	RETIREMENT CONTRIBUTIONS	56,885	59,524	53,226	53,226	63,650	65,559	67,526	69,552
81455	DEFERRED COMP MATCH	83	2,291	2,850	2,850	2,850	2,936	3,024	3,114
81470	WORKERS COMPENSATION PREMIUMS	60	378	728	1,115	784	787	811	835
81475	WORKERS COMPENSATION CLAIMS								
81482	CAR ALLOWANCE	2,215	4,800	4,560	4,000	5,000	5,000	5,000	5,000
= XBEN	TOTAL BENEFITS	186,876	193,584	198,897	196,191	222,723	229,254	235,982	242,911
= XPER	TOTAL PERSONNEL	706,624	716,195	764,313	761,341	898,891	925,702	963,318	981,761
Operations									
= 82110	MAILING & OUTBOUND SHIPPING SERVICES	812	1,916	1,500	1,500	1,500	1,500	1,500	1,600
82120	FREIGHT FOR INBOUND PURCHASED ITEMS		8						
82130	VEHICLE LICENSES & TITLES	20	70						
= XTRC	TOTAL TRANSPORTATION CHARGES	832	1,984	1,500	1,500	1,500	1,500	1,500	1,600
+ 82210	PRINTING & COPYING SERVICES, OUTSOURCED	520	5,627	5,274	5,270	10,330	5,280	5,280	5,300
1	Business Cards			120	120	180	120	120	120
2	Envelopes			150	150	150	160	170	180
3	Various								
4	4CCAD - Reprographics - Scan Plans in the Garage/print			5,000	5,000	10,000	5,000	5,000	5,000
* *	Amount missing from detail	165	5,622	142	150	730	200	250	270
= 82230	ARCHIVING/RECORDS MANAGEMENT SERVICES	650	313	730	730	200	250	260	270
= 82250	TESTING & PHYSICALS	1,170	6,077	6,150	6,000	10,530	5,550	5,550	5,570
= XOPSV	TOTAL OPERATING SERVICES	1,170	6,077	6,150	6,000	10,530	5,550	5,550	5,570
= 82310	LEGAL NOTICES	4,174	558	1,500	1,500	1,500	1,500	1,500	1,500
+ 82390	DUES FOR MEMBERSHIPS	1,337	1,811	1,602	1,390	1,720	2,477	1,320	1,345
C1	Patricia Proctor (\$182 AWWA & \$245 ASCE)				427	400	432		
C2	Katlie Rubush (\$50 LEEDAP BD+C)					50	50		
C3	Engineer I					300	300		
C4	Paul Holzen				25	40	45	50	55
C5	William Banks- PMP					140	140		140
C6	Jonathan Marston - (\$200 APWA)					200	220	220	250
C7	Ben Worley - (\$200 APWA, \$250 IRWA, \$400 AIM)					850	870	880	900
C8	Various					610	400	400	
C9									
C10									
C11									

2015 Budget - 11041600 ENGINEERING
3/7/2014 8:21:43 AM

Account	Label		Actual 2012	Actual 2013	Budget 2014	Estd 2014	Budget 2015	Forecast 2016	Forecast 2017	Forecast 2018
12										
*	Amount missing from detail		727	1,611						
82360	PUBLIC RELATIONS & EDUCATION (CITY SPONSORED)									
82390	PUBLICATIONS, NON-TRAINING									
= XNSP	TOTAL NOTICES, SUBSCRIPTIONS, PUBLICITY		406	147	500	300	400	400	400	400
82435	SOLID WASTE SERVICE									
82450	TELEPHONE SERVICE									
82451	800 MHZ ACCESS LINE SERVICE									
+ 82455	CELLULAR TELEPHONE SERVICE									
1	Various									
2	Director of Engineering (Service)									
3	Paul Holzen (Service)									
4	Dan Allen (Service)									
5	Ben Worley (Service)									
6	Cell phone service for (Paul, Katie, Jonathan, & Ben)									
*	Amount missing from detail		1,011	2,447						
82470	INTERNET & RELATED SERVICES									
= XUTIL	TOTAL UTILITIES		554	571	550	810	820	830	840	850
62510	COMPUTER SERVICES									
82520	LEGAL SERVICES									
+ 82560	CONSULTANT SERVICES									
C1	Various Consultant Services									
02	Microl Surveying Services									
03	GIS As-Built Integration									
04	Aerial Innovations (Fly over)									
05	Various									
*	Amount missing from detail		22,297	40,360	38,900	122,500	92,500	72,500	72,500	72,500
= XCTS	TOTAL CONTRACTUAL SERVICES		22,557	40,360	38,800	122,500	92,500	72,500	72,500	72,500
82610	VEHICLE REPAIR & MAINTENANCE SERVICES									
+ 82620	EQUIPMENT REPAIR & MAINTENANCE SERVICES									
1	Various		1,488	214	1,000	1,000	1,100	1,200	1,300	1,400
2	NovaCopy			1,356	1,200	1,200	1,300	1,350	1,400	1,450
*	Amount missing from detail		1,786	1,388	1,200	1,200	1,300	1,350	1,400	1,450
82640	PAVING & REPAIR SERVICES									
82660	BUILDING REPAIR & MAINTENANCE SERVICES									
= XRMsv	TOTAL REPAIR & MAINTENANCE SERVICES		630	1,602	2,200	3,496	2,400	2,550	2,700	2,850
82750	EMPLOYEE RECOGNITION/RECEPTIONS									
+ 82780	TRAINING, OUTSIDE									
01	RMP Certification (Dan & William)									
02	RWA Certification (Ben)									
03	Appraisal Institute Certification (Ben)									
04	Various									
05	Various									
*	Amount missing from detail		769	349						
= XEPG	TOTAL EMPLOYEE PROGRAMS		378	573	4,350	3,710	3,110	3,210	3,310	3,410
+ 82810	REGISTRATIONS									
1	Various		2,445	7,205	5,705	5,000	6,100	6,000	6,000	6,000
			817							

2015 Budget - 11041600 ENGINEERING
3/7/2014 8:21:43 AM

Account	Label	Actual 2012	Actual 2013	Budget 2014	Estd 2014	Budget 2015	Forecast 2016	Forecast 2017	Forecast 2018
3	Continuing Education			5,000	5,000	5,000	6,000	6,000	6,000
4	INFOR Conference (Amanda)					1,100			
*	Amount missing from detail								
+ 82820	GROUND TRANSPORTATION (OUTSIDE WILLIAMSON COUNTY)	1,628	7,208	1,620	1,000	600	700	700	700
1	Various	849	623	1,620	1,000	600	700	700	700
3	Continuing Education	312							
*	Amount missing from detail								
+ 82830	AIR TRAVEL	637	963						
1	Various	1,112	1,034	1,034	3,000	3,000	3,000	3,000	3,000
2	Continuing Education								
3	INFOR Conference (Amanda)								
*	Amount missing from detail								
+ 82840	LODGING	4,112	5,856	6,000	5,800	5,000	5,000	5,000	5,000
1	Various	2,932		6,000	6,000	5,000	5,000	5,000	5,000
2	Continuing Education								
3	INFOR Conference (Amanda)								
*	Amount missing from detail								
+ 82850	MEALS (OUTSIDE WILLIAMSON COUNTY)	1,180	6,650	1,304	3,516	3,000	3,060	3,000	3,000
1	Various	1,168		1,304	3,516	3,000	3,060	3,000	3,000
2	Continuing Education								
3	INFOR Conference (Amanda)								
*	Amount missing from detail								
+ 82890	OTHER TRAVEL EXPENSES	365	1,304						
1	Various	732		365	200	200	200	200	200
2	Local P/B Meetings	94		500	500	200	200	200	200
*	Amount missing from detail								
= XFDI	TOTAL PROFESSIONAL DEVELOPMENT/TRAVEL	638	17,159	19,000	13,200	16,760	18,000	18,000	18,000
+ 83110	OFFICE SUPPLIES	1,624	2,147	3,100	3,100	3,000	3,100	3,200	3,300
1	Black leather portfolios with COF logo embossed (20 @ \$30 each)		600	600	2,500	2,500	3,000	3,100	3,200
2	Various								
*	Amount missing from detail								
+ 83120	OFFICE DÉCOR ITEMS (OTHER THAN FURNITURE)	1,894	2,147						
1	Aerial Innovations (Pictures of Projects)					525	525	525	525
*	Amount missing from detail								
= 83130	EMPLOYEE BENEVOLENCE ITEMS	104	150	150					
83140	MEALS & FOOD (INSIDE WILLIAMSON COUNTY)	1,273	1,655	1,300	1,500	1,600	1,700	1,800	1,900
= XOFS	TOTAL OFFICE SUPPLIES	3,167	3,906	4,656	4,750	5,275	5,495	5,695	5,905
+ 83250	SAFETY SUPPLIES	283	316	500	500	3,000	1,000	1,000	1,000
C1	High Visibility Construction Jackets								
C2	Wing w/ lights for engineering vehicles								
C3	Various		500	500	500	1,000	1,000	1,000	1,000
*	Amount missing from detail								
+ 83260	UNIFORMS PURCHASED	589	816	1,025	940	915	1,015	1,025	1,035
1	Boots			246	255	255	255	255	255
2	Uniforms			660	660	750	750	770	780
3	Various								
4									
*	Amount missing from detail								
= XOPS	OTHER OPERATING SUPPLIES	317	1,025	200	200	4,005	2,015	2,025	2,035
		1,151	1,841	1,600	1,415				
						Page 3			

2015 Budget - 11041600 ENGINEERING
3/17/2014 8:21:43 AM

Account	Label		Actual 2012	Actual 2013	Budget 2014	Estd 2014	Budget 2015	Forecast 2016	Forecast 2017	Forecast 2018
83310	GASOLINE & DIESEL FOR FLEET (INSIDE WILLIAMSON COUNTY)		1,990	1,343	3,000	2,000	2,500	2,600	2,700	2,800
83320	MILEAGE (INSIDE WILLIAMSON COUNTY)			60						
=	XFUEL	TOTAL FUEL & MILEAGE	1,990	1,403	3,000	2,000	2,500	2,600	2,700	2,800
+ 833510	FURNITURE, FIXTURES (<\$25,000)			1,881	2,500	300	1,000	1,000	1,000	1,000
01	Desk Chair (7/12/13) (7/13/14)				2,000	2,000				
02	Reception Seating for front office				500	500				
03	Various						300			
*	Amount missing from detail			1,881						
+ 833520	VEHICLES (<\$25,000)						25,000	25,000	25,000	25,000
1	Replace 1999 FORD- F-150						25,000	25,000	25,000	25,000
2	Replace 2003 FORD Explorer							25,000	25,000	25,000
*	Amount missing from detail									
+ 833530	MACHINERY & EQUIPMENT (<\$25,000)			84	287	245	250	1,000	1,000	1,000
1	New Cell Phone-Paul					250		250	250	250
2	Upgrade Cell Phone for Ben						250	250	250	250
3	Upgrade Cell Phone Katie						250	250	250	250
4	Upgrade Cell Phone for Jonathanan						250	250	250	250
5	New Copy Machine (2006) (Max Life 7 Years) (\$16,000 to lease)									
6	Various			64	287			250		
*	Amount missing from detail									
+ 833540	COMPUTER HARDWARE (<\$25,000)			9,529	11,230	1,400	1,399	4,650	4,650	4,650
01	****Jonathan, Sarah, William***							4,650	4,650	4,650
02	Laptop with docking station (Katie 1 @ \$1400)					1,400	1,399			
03	Hi-res large size monitor									
04	Various			4,634						
*	Amount missing from detail									
+ 833550	COMPUTER SOFTWARE (<\$25,000)			1,845	11,830					
01	CADD Software				4,960	4,960	2,017	17,100	2,000	19,200
02	Various			10,283			2,017	17,100		
03	Microsoft Project License							2,000	2,000	2,000
04	Adobe Acrobat Professional									
05	Scan License for OnBase (SR)									
06	Dragon Software (dictation of meeting minutes)							300		
*	Amount missing from detail				4,091					
=	XFELU	TOTAL MACHINERY & EQUIPMENT (<\$25,000)	16,680	16,022	\$700	5,910	47,310	30,540	7,100	22,750
833620	EQUIPMENT PARTS & SUPPLIES			75	323					
=	XRMS	TOTAL REPAIR & MAINTENANCE SUPPLIES	75	323						
85110	PROPERTY INSURANCE			3,041	714	776	746	783	790	795
85111	FRAUD INSURANCE				22					800
85112	INLAND MARINE INSURANCE					318	117	20	21	25
85113	AUTO PHYSICAL DAMAGE					124	62	52	55	59
85115	LIAUTO LIABILITY INSURANCE					604		1,149	1,206	1,220
85116	E&O LIABILITY INSURANCE					469	509	679	713	740
85117	VEHICLE LIABILITY INSURANCE					754	985	963	1,011	1,150
85119	UMBRELLA LIABILITY					225	3,293			
85120	PROPERTY DAMAGE COSTS									

Account	Label		Actual 2012	Actual 2013	Budget 2014	Estd 2014	Budget 2015	Forecast 2016	Forecast 2017	Forecast 2018
+ 85140	SURETY/NOTARY BONDS		50	50	50	50	100	50	100	100
1	Various				50			50	100	100
2	Ben Morley (Budget for May/2014)				50					100
3	Sarah Roon (Budget for June 2015)		50				50			
4	Amanda Ray						50			
*	Amount missing from detail									
= XPLC	TOTAL PROPERTY & LIABILITY COSTS		3,091	3,250	5,782	3,250	3,663	4,313	4,110	4,147
+ 85320	STATE FEES		2,005	2,420	2,805	2,280	3,210	3,085	2,400	2,400
01	State Professional Tax (\$400)				2,400	2,000	2,400	2,400	2,400	2,400
02	Engineering License (\$140)				280	280	280	420		
03	PE Exam						530		255	
04	Appraisal Trainee Application Fee (Ben)				125					
05	Various									
06	*									
	Amount missing from detail		1,600	2,420						
	RECORDING & FILING FEES		39	100	100	100	100	100	100	100
= XPERM	TOTAL PERMITS		2,102	2,459	2,905	2,380	3,310	3,185	2,500	2,500
85980	MISCELLANEOUS									
= XOBIE	TOTAL OTHER BUSINESS EXPENSES									
+ 86600	LEASE/LOAN PRINCIPAL		5,333				5,280	5,337	5,384	
1	2014- New Copier				5,333		5,280	5,337	5,384	
*	Amount missing from detail									
+ 86700	LEASE/LOAN INTEREST		102		87	145	89	30	30	
1	2014- New Copier				102	87	145	89	30	
*	Amount missing from detail									
= XDSV	TOTAL DEBT SERVICE		5,525		87	5,425	5,426		5,414	
87510	REIMB OF INTERFUND SERVICES		(172,521)	(175,269)	(175,269)	(227,665)	(222,435)	(219,098)	(227,009)	
= XAPP	TOTAL APPROPRIATIONS		(172,521)	(175,269)	(175,269)	(227,665)	(222,435)	(219,098)	(227,009)	
= XOP	TOTAL OPERATIONS		55,214	(84,895)	(63,235)	(74,823)	11,769	(35,964)	(76,924)	(73,727)
	Capital									
= XTOT	TOTAL EXPENDITURES		761,838	631,300	701,078	686,518	910,660	889,738	876,394	908,034

Budget Notes/Objectives

Traffic Operations Center

- TOC is requesting \$635,000 in Consultant services as part of the operations budget. This funding is part of the Traffic Signal Timing Optimization and Testing Program for the Cool Springs Area.
- TOC is requesting \$3,115,000 in Capital. Of this amount \$1,432,000 will be reimbursed to the City through grants.

2015 Budget - 11041610 TRAFFIC OPERATIONS CENTER (TOC)
3/7/2014 8:09:34 AM

Account	Label	Actual 2012	Actual 2013	Budget 2014	Budget 2015	Budget 2016	Forecast 2017	Forecast 2018
	Personnel							
= 81110	REGULAR PAY	177,154	178,858	166,048	166,000	222,032	228,683	235,554
81120	OVERTIME PAY	105	83	200	1,000	1,000	1,100	1,200
81198	VACANCY ADJUSTMENT			(5,612)		(7,771)	(8,004)	(8,244)
= XWAGE	TOTAL WAGES	177,259	178,941	165,436	167,000	215,261	221,789	233,519
= 81410	FICA (EMPLOYERS SHARE)	13,072	13,019	12,703	12,500	16,985	17,485	18,019
= 81420	MEDICAL PREMIUMS	27,370	35,248	36,886	36,500	33,124	34,118	35,141
= 81430	GROUP INSURANCE PREMIUMS	2,275	3,151	3,124	3,100	3,209	3,305	36,195
= 81440	EMPLOYEE INSURANCE CONTRIBUTIONS	(4,673)	(6,874)	(8,442)	(8,400)	(6,531)	(6,727)	3,404
= 81450	RETIREMENT CONTRIBUTIONS	18,376	17,008	23,658	28,656	31,632	32,581	(7,137)
= 81470	WORKERS COMPENSATION PREMIUMS	30	188	144	151	151	156	160
= 81475	WORKERS COMPENSATION CLAIMS							165
= XBEN	TOTAL BENEFITS	57,450	61,741	67,371	67,507	78,570	80,928	83,533
= XPER	TOTAL PERSONNEL	234,709	240,682	228,307	234,507	293,831	302,717	311,863
	Operations							
82110	MAILING & OUTBOUND SHIPPING SERVICES							
82120	FREIGHT FOR INBOUND PURCHASED ITEMS	41	105	150	515	620	590	540
= XTRC	TOTAL TRANSPORTATION CHARGES	93	105	150	516	520	530	540
82210	PRINTING & COPYING SERVICES, OUTSOURCED							
+ 82250	TESTING & PHYSICALS							
+ 1	New Employee							
+ 2	Random Drug Screening							
+ 3	Various							
* Amount missing from detail								
= XOPSV	TESTING & PHYSICALS	350	318	350	318	350	350	350
82310	LEGAL NOTICES	258	100	400	500	500	500	500
+ 82350	DUES FOR MEMBERSHIPS	1,903	3,510	1,040	1,330	1,070	1,110	1,150
01	Various	806						
02	MSA - Abby & New Employee	140						
03	ITE - (Car)	570						
04	ITS-A - City Membership	990						
10								
11								
12								
13	APA - (Keweenaw) NO LONGER NEEDED							
14								
15	*	Amount missing from detail	1,097	3,310				
+ 82390	PUBLICATIONS, NON-TRAINING	243	116	310	300	800	300	300
1	ITE - Trip Generation Manual 8th Edition							
3	Various							
* Amount missing from detail								
= XNSP	TOTAL PRACTICES, SUBSCRIPTIONS, PUBLICITY	2,467	3,516	1,740	2,140	2,370	1,910	1,980
82450	TELEPHONE SERVICE	1,247	617	600	820	830	840	850
82451	800 MHZ ACCESS LINE SERVICE	40	43	50	80	90	100	110
+ 82455	CELLULAR TELEPHONE SERVICE	635	551	651	400	600	610	620
1	Cell Phone for New Traffic Engineer Position	170	602	400	800	610	610	610
* Amount missing from detail								

2015 Budget - 11041610 TRAFFIC OPERATIONS CENTER (TOC)
3/7/2014 8:09:34 AM

Account	Label	Actual 2012	Actual 2013	Budget 2014	Est'd 2014	Budget 2015	Forecast 2016	Forecast 2017	Forecast 2018
82470	INTERNET & RELATED SERVICES	554	571	800	807	810	820	830	840
= XUTIL	TOTAL UTILITIES	2,876	1,818	1,850	2,107	2,330	2,370	2,410	2,450
+ 82510	COMPUTER SERVICES	1,451	1,360	1,200	1,200	2,850	2,950	3,070	3,180
1 Various	Casper Corporation (Trans CAD Support)	1,200				1,550	1,580	1,570	1,580
* Amount missing from detail		250	1,280	1,280	1,200	1,300	1,400	1,500	1,600
+ 82540	ENGINEERING SERVICES	13,756							
+ 82560	CONSULTANT SERVICES	53,983	8,261	230,000	180,000	835,000	485,000	485,000	740,000
01 Various		30,505							
02 City of Franklin Traffic Impact Studies (90% Developer and 10% City)									
03 Traffic Data Collection, Annual Program									
04 Traffic Signal Timing Optimization and Testing - Coal Springs									
05 Traffic Signal Timing Optimization and Testing - Downtown									
06 Traffic Signal Timing Optimization and Testing - 98 East									
07 Traffic Signal Timing Optimization and Testing - Columbia Ave									
08 Traffic Signal Timing Optimization and Testing									
09 Traffic Signal Timing Optimization and Testing - Hillsboro Road									
10 Comprehensive Transportation Network Study									
11									
* Amount missing from detail		6,558	9,651						
12									
82599 OTHER CONTRACTUAL SERVICES									
= XCTS	TOTAL CONTRACTUAL SERVICES	38,372	116,805	291,200	161,200	637,850	457,960	458,070	743,180
82610 VEHICLE REPAIR & MAINTENANCE SERVICES		950	1,011	1,010	1,010	500	500	500	500
+ 82620 EQUIPMENT REPAIR & MAINTENANCE SERVICES		4,905	250	200	200	500	500	520	530
1 Novacopy						500	500	510	520
3 Various								520	530
4 Emergency Fiber Optic Repair for TOC Fiber									
* Amount missing from detail									
82640 PAVING & REPAIR SERVICES									
= XRMSV	TOTAL REPAIR & MAINTENANCE SERVICES	5,855	1,261	1,000	76,670	1,000	1,010	1,020	1,030
82750 EMPLOYEE RECOGNITION/RECEPTIONS									
82780 TRAINING, OUTSIDE									
= XEPG	TOTAL EMPLOYEE PROGRAMS								
+ 82810 REGISTRATIONS									
1 Various		1,950	1,937	2,132	2,200	2,620	2,850	3,080	3,310
2 ASCE (Car)		555		50	50	60	70	80	90
3 ASME (Car)				50	50	60	70	90	90
7 TSA Conference (Car & New Employee)				700	800	900	1,000	1,100	1,200
8 PE Registrations				700	800	800	900	1,000	1,100
9 Non PE - Registrations				950	500	800	810	820	830
* Amount missing from detail		1,395	(113)						
+ 82820 GROUND TRANSPORTATION (OUTSIDE WILLIAMSON COUNTY)									
1 Various		396	785	1,521	1,000	1,160	1,180	1,200	1,220
3 PE - Ground Transportation		306			1,000				
4 Non PE - Ground Transportation					750		770	780	790
* Amount missing from detail					400		410	420	430
+ 82830 AIR TRAVEL									
3 PE Air Travel					460		450	460	470
4 Non PE - Air Travel					450		450	460	470
5 Various									
* Amount missing from detail									
+ 82840 LODGING									
01 PE Lodging		307	661	2,450	1,200	1,600	1,800	2,000	2,200
02 Non PE - Lodging				550	1,000	1,100	1,100	1,100	1,100
				1,650	1,650	600	700	800	900

2015 Budget - 11041610 TRAFFIC OPERATIONS CENTER (TOC)
3/27/2011 8:00:34 AM

110 TRAFFIC OPERATOR

2015 Budget - 11041610 TRAFFIC OPERATIONS CENTER (TOC)
 3/7/2014 8:08:34 AM

Account	Label		Actual 2012	Actual 2013	Budget 2014	Estd 2014	Budget 2015	Forecast 2016	Forecast 2017	Forecast 2018
15										
16										
17	Amount missing from detail									
		(159,927)	19,323							
88531	MACHINERY & EQUIPMENT (>\$25,000) NON-GRANT		165,333							
88532	MACHINERY & EQUIPMENT (>\$25,000) GRANT		105,833	510,888						
= XMEO	TOTAL MACHINERY & EQUIPMENT (>\$25,000)		287,262	530,311	3,115,000	515,726	1,875,000	2,500,000	700,000	710,000
= XCAP	TOTAL CAPITAL		287,262	546,579	3,115,000	519,244	1,875,000	2,500,000	700,000	700,000
= XTOT	TOTAL EXPENDITURES		942,542	1,005,896	3,715,502	1,047,360	2,876,741	3,310,197	1,524,513	1,816,303



HISTORIC
FRANKLIN
TENNESSEE

City of Franklin Engineering Department Budget Presentation

Budget & Finance Committee

2014-2015

Engineering Personnel Recommendation for 2013-2014

Engineering Division:

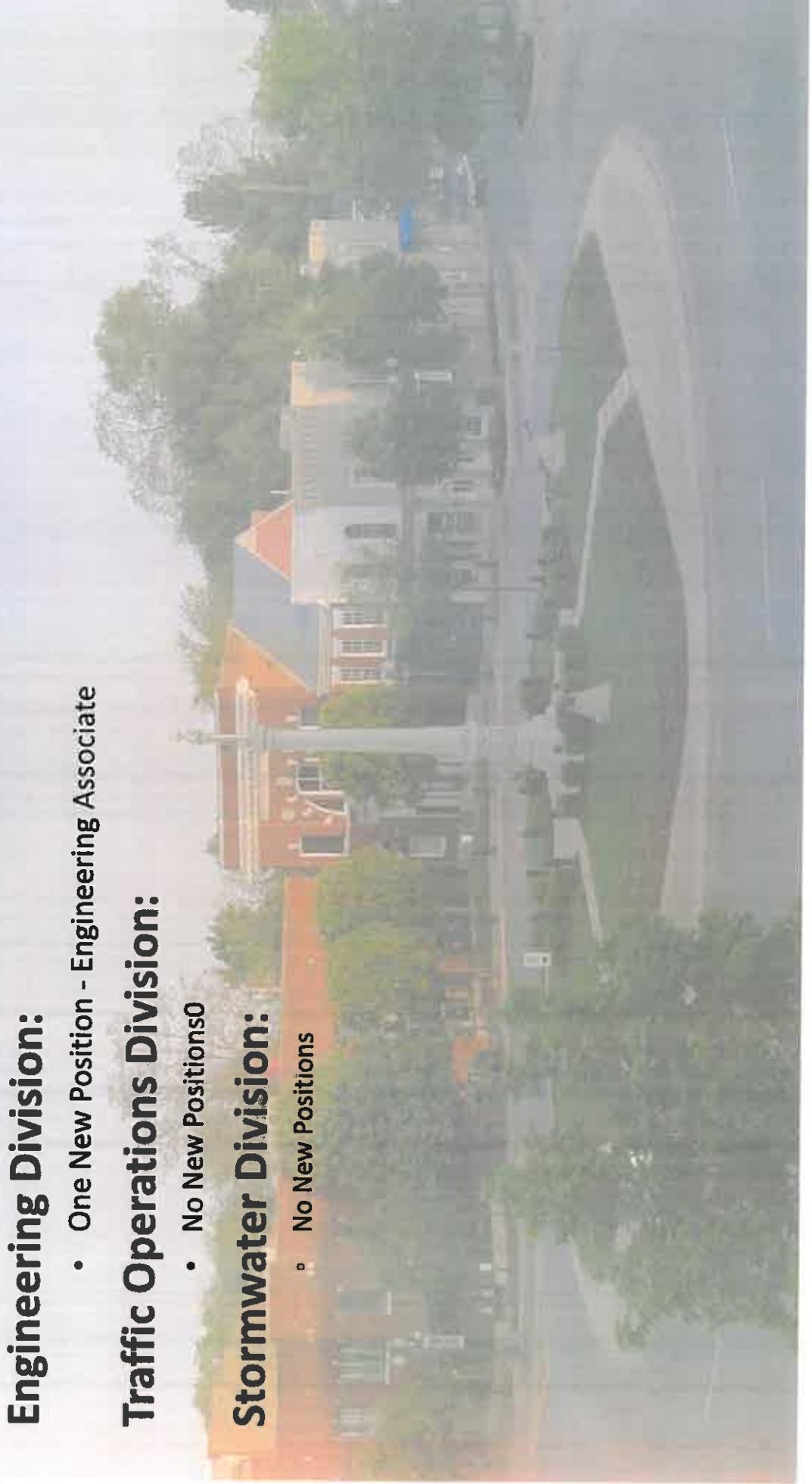
- One New Position - Engineering Associate

Traffic Operations Division:

- No New Positions

Stormwater Division:

- No New Positions



Engineering Operations

**2013-2014 Approved Budget – \$112,034
2013-2014 Estimated Actual – \$100,446
2014-2015 Proposed Budget – \$239,434**

Operating Services:

\$4,380 Net Increase for various Operating Services

- Printing & Copying Services, Outsourced (Scan Plans for Onbase and GIS)

Contractual Services:

\$82,500 Net Increase for various Consultant and Surveying Services

- **\$82,500 Net Increase for Consultant Services**
 - \$50,000 Various Consultant Services (CIP and Development)
 - \$20,000 Misc. Surveying Services (CIP)
 - \$50,000 GIS As-Built Integration for Construction Drawings
 - \$2,500 Aerial Innovations

Operating Supplies

\$2,405 Net Increase for Job Site Safety Supplies

Total Machinery & Equipment (<\$25,000):

\$40,600 Net Increase for various Machinery & Equipment

- Machinery & Equipment (<\$25,000) (Replace a 1997 Ford F-150)
 - Computer Software – Computer Aided Design Software
 - Computer Hardware – New Computers

Miscellaneous Items:

(\$2,485) Net Decrease in miscellaneous

Engineering Capital

2012-2013 Approved Budget – \$0.00
2012-2013 Estimated Actual – \$0.00
2013-2014 Proposed Budget – \$0.00



Traffic (TOC) Operations

2013-2014 Approved Budget – \$372,195

2013-2014 Estimated Actual – \$293,609

2014-2015 Proposed Budget – \$707,910

Contractual Services

\$346,650 Net Increase for various Contractual Services

- \$176,200 Net Increase for Consultant Services
 - \$250,000 – Comprehensive Transportation Network Study
 - \$300,000 – City of Franklin Traffic Impact Studies for Development
 - \$55,000 – Traffic Data Collection – Annual Program
 - \$30,000 – Traffic Signal Timing Optimization and Testing
- \$1,650 Net Increase Computer Services

Machinery & Equipment (<\$25,000)

(\$9,150) Net Decrease for various Machinery & Equipment (<\$25,000)

Total Debt Service

(\$9,116) Net Decrease for Lease/Loan Interest (Cistro video Surveillance)

Miscellaneous Items:

(\$7,331) Net Decrease in miscellaneous items

Traffic (TOC) Capital

2013-2014 Approved Budget – \$3,115,000

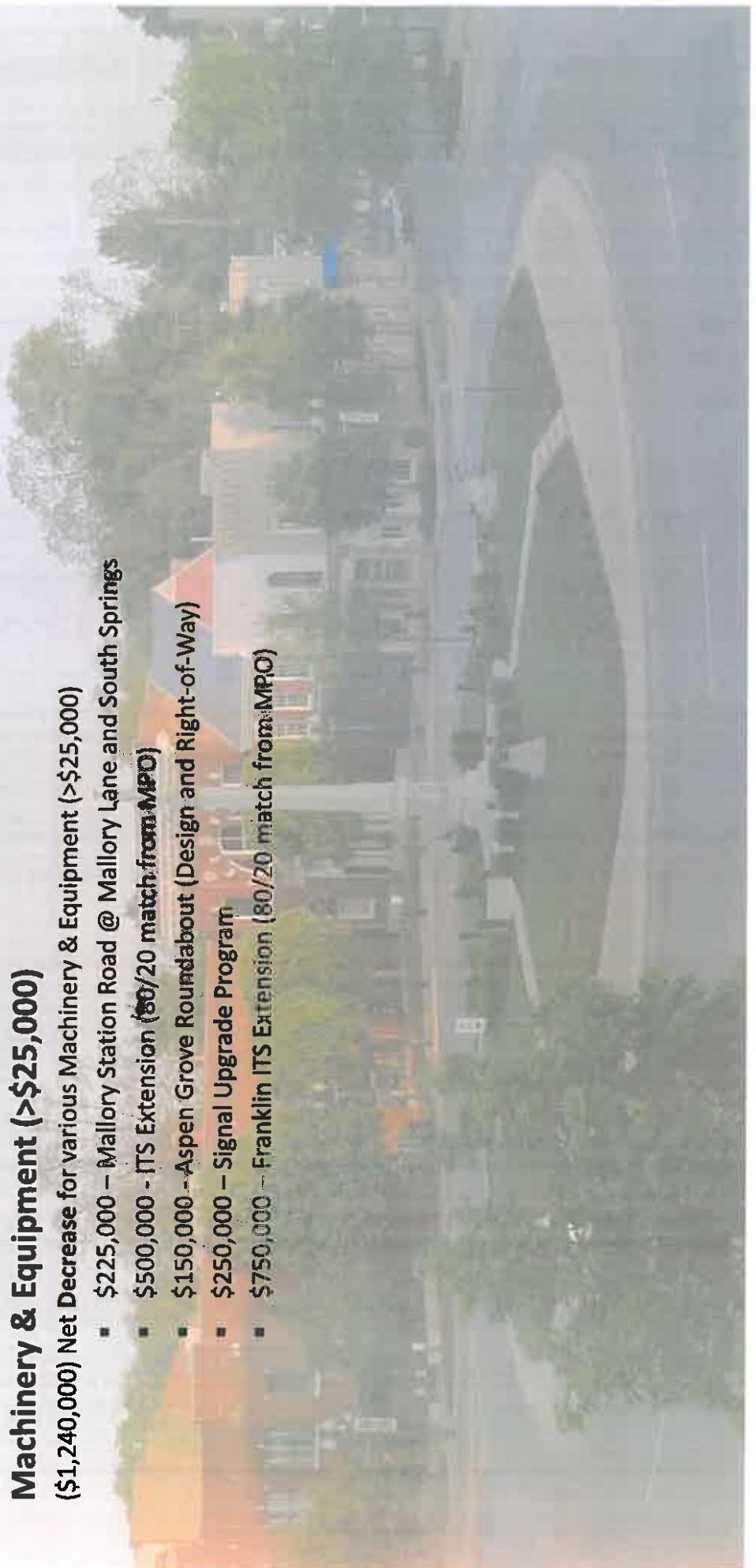
2013-2014 Estimated Actual – \$519,243

2014-2015 Proposed Budget – \$1,875,000

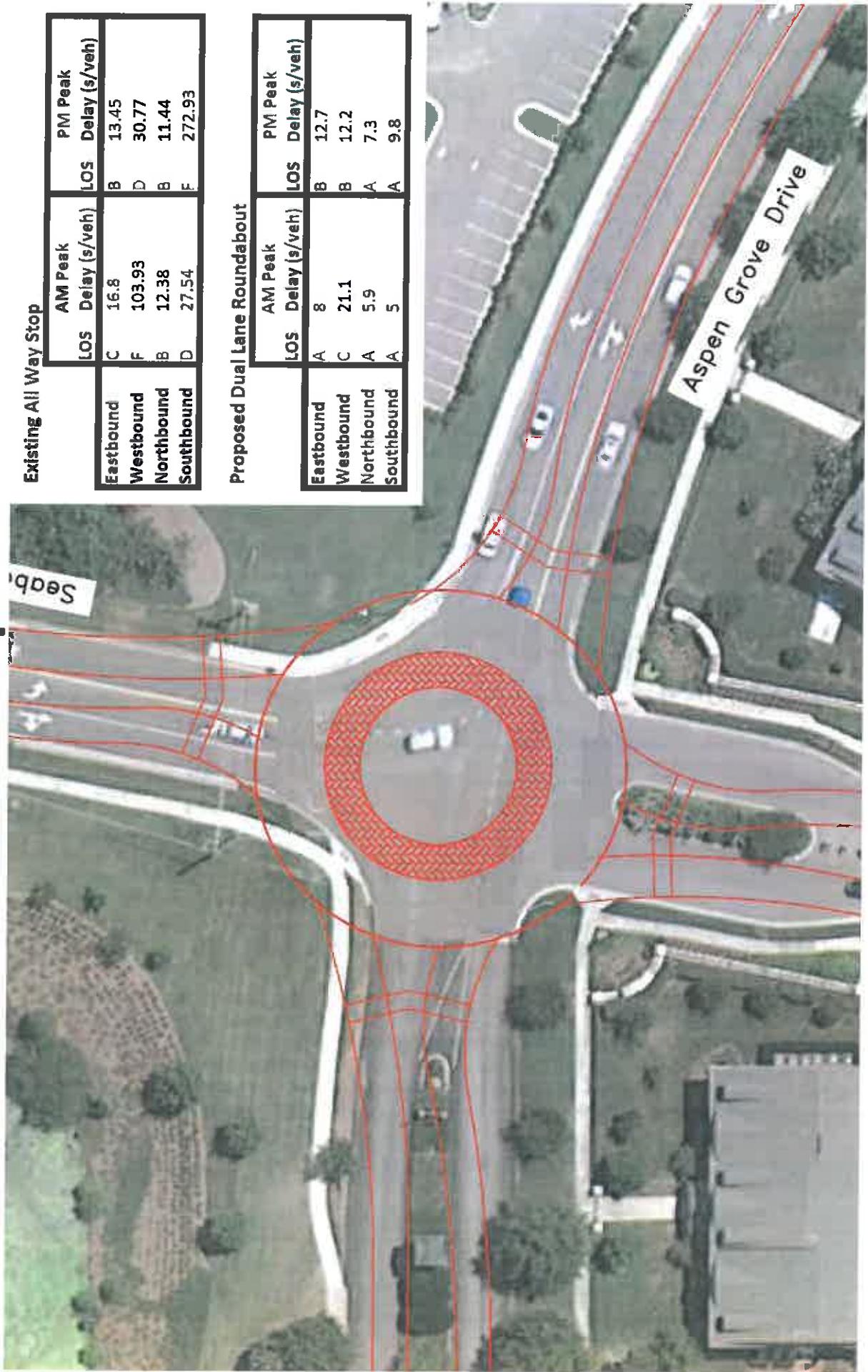
Machinery & Equipment (>\$25,000)

(\$1,240,000) Net Decrease for various Machinery & Equipment (>\$25,000)

- \$225,000 – Mallory Station Road @ Mallory Lane and South Springs
- \$500,000 - ITS Extension (~~\$80/20 match from MPO~~)
- \$150,000 --Aspen Grove Roundabout (Design and Right-of-Way)
- \$250,000 – Signal Upgrade Program
- \$750,000 – Franklin ITS Extension (80/20 match from MPO)



Aspen Grove Drive and Seaboard Intersection Improvements



Stormwater Operations (Engineering Only)

2013-2014 Approved Budget – \$459,300

2013-2014 Estimated Actual – \$507,382

2014-2015 Proposed Budget – \$167,793

Consultant Services

(\$265,000) Net Decrease for Consultant Services

- \$12,000 – TMDL Sampling
- \$15,000 – USGS Stream Gauging Stations
- \$100,000 – Stormwater Management Master Plan Modeling (Jordan Branch)

Total Machinery & Equipment (<\$25,000)

(\$27,890) Net Decrease for Machinery & Equipment (<\$25,000)

Miscellaneous Items:

\$1,383 Net Increase in miscellaneous items

Stormwater Capital (Engineering Only)

2013-2014 Approved Budget - \$1,901,000

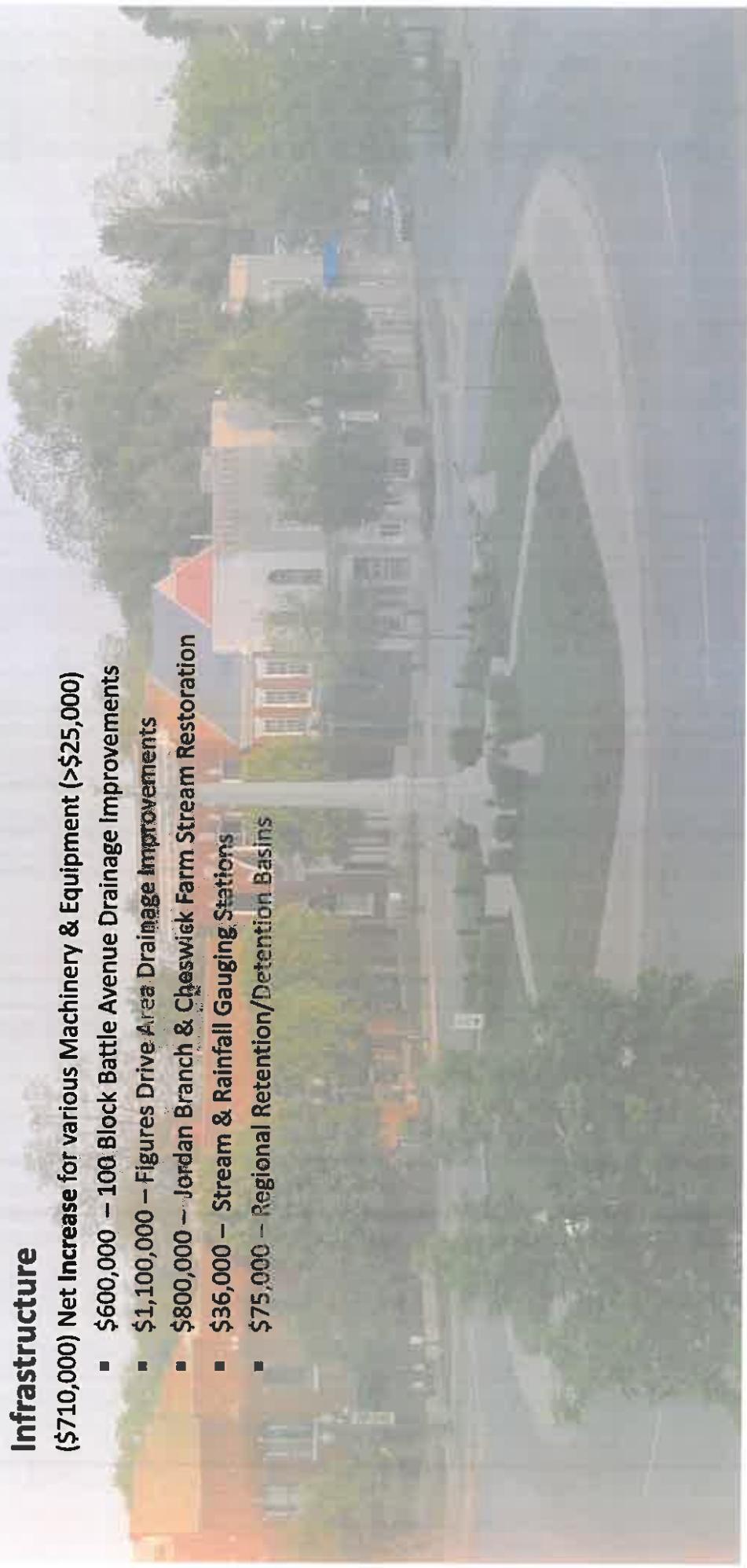
2013-2014 Estimated Actual - \$446,523

2014-2015 Proposed Budget - \$2,611,000

Infrastructure

(\$710,000) Net Increase for various Machinery & Equipment (>\$25,000)

- \$600,000 – 100 Block Battle Avenue Drainage Improvements
- \$1,100,000 – Figures Drive Area Drainage Improvements
- \$800,000 – Jordan Branch & Cheswick Farm Stream Restoration
- \$36,000 – Stream & Rainfall Gauging Stations
- \$75,000 – Regional Retention/Detention Basins



Jordan Branch Stream Restoration Project
Cool Springs East Subdivision

Total Drainage
Area = 148 AC

Total Drainage

Area = 50 AC

