

Streets

Joe York, Director

The Street Department was established as a separate department in 1987, and is currently located at 108 Southeast Parkway. Infrastructure improvements include: Annual Paving Program, Roadway and Drainage improvements, ongoing Sidewalk Improvement projects and Traffic Signal upgrades. The Street Department currently maintains approx. 292 miles of roadway.

The Street Department operates with a staff of 72 full time employees and 10 part-time employees within four (4) divisions. The four divisions of the Streets Department include: Street Maintenance, Traffic, Stormwater, and Fleet Maintenance.

Measurement/Goal	FY12	FY13	FY14 (Projected)
Cost to pave Streets	\$1,650,000	\$1,650,000	\$2,052,000
Cost to repair sidewalks	\$100,000	\$100,000	\$125,000
Cost of Curb & Gutter	\$0	\$10,000	\$10,000
Leaf Vacuum Season (cubic yds)	5,800 cu yds	7,500 cu yds	7,955 cu yds
Traffic Division Budget	\$1,053,709	\$1,160,519	\$1,166,962
Number of Signs Produced Qty/Cost per Sign			
Stop Signs	83/\$43.00	175/\$43.00	109/\$43.00
Speed Limit Signs	32/\$27.00	40/\$27.00	61/\$27.00
Street Name Signs	192/\$22.00	260/\$22.00	194/\$22.00
Parking Signs	17/\$10.00	30/\$10.00	35/\$10.00
Yield Signs	11/\$41.00	30/\$41.00	19/\$41.00
Warning Signs	N/A	90/\$29.00	94/\$29.00
Road Construction	N/A	60/\$35.00	52/\$35.00
No U-Turn Signs	N/A	40/\$30.00	N/A
All Way Stop Placards	N/A	75/\$6.50	86/\$6.50
Way Finding Signs	3/\$1,200	3/\$1,200	N/A
Signs for Other Depts	140/\$20.00	325/\$20.00	261/\$20.00
Downtown Banners	100/\$17.00	100/\$17.00	20/\$17.00
Total of 1,228 Signs & Banners =			\$22,396.00



Sustainable Franklin

In 2008, the Street Department established a compost program. The Landscape Division performs the composting process at the old City burner site located on Incinerator Road off Lula Lane. Dump truck loads of leaves vacuumed during the annual leaf season, and brown bags of yard waste picked up by the Solid Waste Dept., are now utilized in the compost process, and no longer transported to the landfill.

The compost program has been a huge success. Large quantities of the compost are utilized by the Parks Dept, Streets Maintenance division & Streets Stormwater division. These divisions have realized a cost savings in comparison with the purchase of like material from local vendors, as well as: fuel costs and disposal fees. Monies have also been generated from the sale of compost, being offered to the public in bulk form for \$20 per cubic yd.

The Fleet Maintenance Division “green” savings result from:

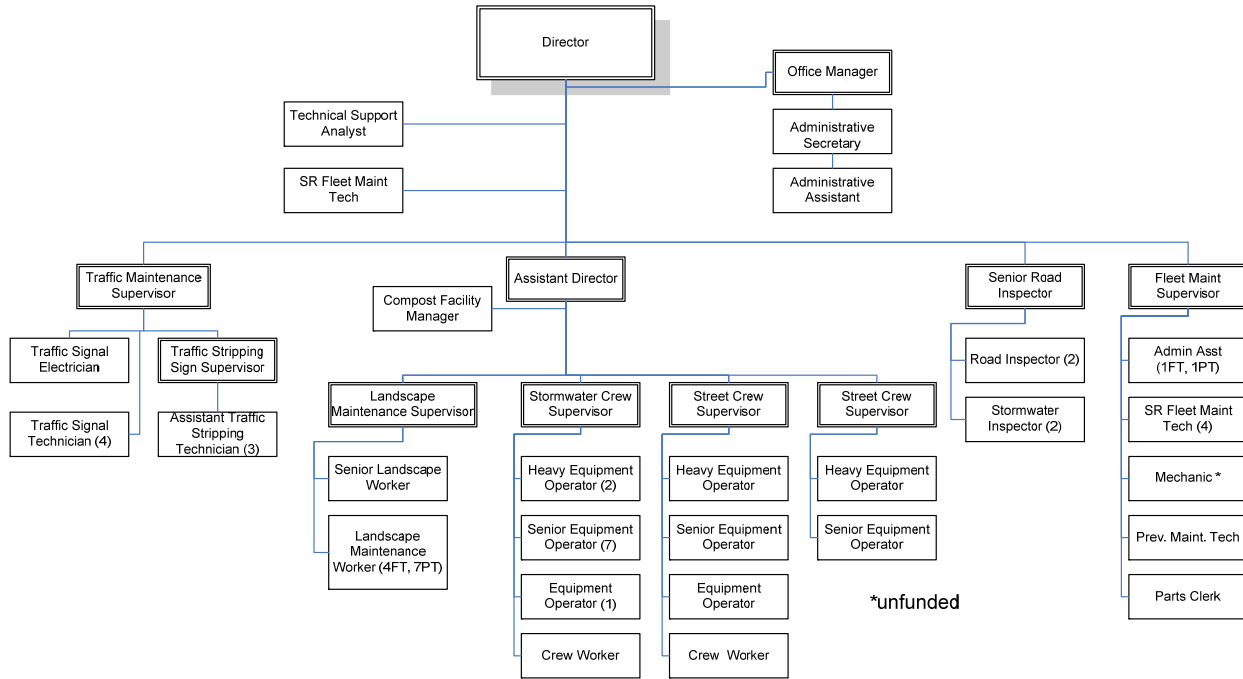
- Utilizing the City “Blue Bag” program
- Utilizing drain socks to filter oil & soluble fluids
- The sale of used oil to be recycled
- Recycling cardboard
- Recycling cleaning fluids
- Proper disposal of tires and metals

The Traffic Division has installed LEDs (Light Emitting Diodes) in all City owned traffic signals. LED lights reduce power consumption, and produce minimal heat, improving signal efficiency and requiring less maintenance. LED lighting has been installed as part of the new McEwen Drive construction project. The Traffic Division has converted 93% of all Downtown street lights to LED lighting. Excluding Columbia Ave. streetscape.

A total of 25 UPS Systems (Uninterruptable Power Supply) have been installed at major intersections throughout the City. UPS Systems allow signals with LED lights to continue working for up to eight hours during power failures. This helps avoid additional expenditures associated with personnel call-back and police assistance. UPS Systems provide clean, regulated dual conversion power for traffic signal controllers and other sensitive equipment inside the cabinet, and extend their service life.

The Traffic Division sign shop manufactures a variety of signs including all regulatory signs throughout the City as well as signs for the downtown parking garages, other City departments, special events, etc. It is projected over 1200 signs will be produced and installed this fiscal year. In-house sign production results in considerable cost savings to the Street Department as well as other City Departments, as compared to sign purchase from a supplier.

Organizational Chart



Staffing by Position

Street - Stormwater Fund

Position	Pay Grade	FY 2014		FY 2015	
		Full-Time	Part-Time	Full-Time	Part-Time
Stormwater Coordinator	H	1	0	1	0
Water Quality Specialist II	G	1	0	1	0
Stormwater Crew Foreman	TBD	0	0	1	0
Water Quality Specialist I	F	1	0	1	0
Stormwater Inspector	F	2	0	2	0
Stormwater Supervisor	E	1	0	0	0
Equipment Operator	D	10	0	10	0
Crew Worker	B	1	0	1	0
Intern	---	0	0	0	0
TOTALS		17	0	17	0

Narrative of Personnel Changes	New Position		Reclassification		
	Title	Pay Grade	From Job Title	To Job Title	Pay Grade (if reclassification creates new job title)
Re-class Stormwater Supervisor			Stormwater Supervisor	Stormwater Crews Foreman	TBD

**City of Franklin
2014-2015 Fiscal Year Budget
Personnel by Position**

Street-Maintenance Division

Position	Pay Grade	FY 2014		FY 2015		
		Full-Time	Part-Time	Full-Time	Part-Time	Unfunded
Street Director	K	1	0	1	0	0
Assistant Director	J	1	0	1	0	0
Senior Road Inspector	G	1	0	1	0	0
Landscape Maint Supervisor	F	1	0	1	0	0
Road Inspector	F	2	0	2	0	0
Street Crew Foreman	TBD	0	0	1	0	0
Office Manager	F	1	0	1	0	0
Sr.Fleet Maintenance Technician	F	1	0	0	0	0
Compost Facility Manager	E	1	0	1	0	0
Technical Support Specialist	E	1	0	1	0	0
Street Crew Supervisor	E	2	0	1	0	1
Infrared System Technician	E	1	0	1	0	0
Landscape Maintenance Crew Chief	E	1	0	1	0	0
Administrative Assistant	D	1	0	2	0	0
Equipment Operator	D	8	0	9	0	0
Landscape Maint Worker Sr	C	2	0	2	0	0
Administrative Secretary	B	1	0	0	0	0
Landscape Maint Worker	B	4	7	8	9	0
Crew Worker	B	3	0	3	0	0
	TOTALS	33	7	37	9	1

Narrative of Personnel Changes	New Position		Reclassification		
	Title	Pay Grade	From Job Title	To Job Title	Pay Grade (if reclassification creates new job title)
Move (1)Senior Maintenance tech to Fleet					
Re-class Andministrative secretary			Admin Secretary	Admin Assistant	D
Add (1) Full time Equipment Operator				Equipment Operator	D
(4) Full time positions for Mack Hatcher/Hillsboro Rd Streetscape	Landscape Maintenance Worker	B			
(2) part- time positions for Mack Hatcher/Hillsboro Rd Streetscape	Landscape Maintenance Worker	B			
Unfund (1) Street Crew Supervisor 2015 Reclassify (1) Street Crew Supervisor		TBD	Street Crew Supervisor	Street Crews Foreman	TBD

Street-Traffic Division

Position	Pay Grade	FY 2014		FY 2015	
		Full-Time	Part-Time	Full-Time	Part-Time
Traffic Maint Manager	H	1	0	1	0
Traffic Sign/Mnt Electrician	F	1	0	1	0
Traffic Striping/Sign Prod Supervisor	F	1	0	1	0
Traffic Signal Technician II	F	3	0	3	0
Sign Specialist	TBD	0	0	1	0
Traffic Signal Technician I	E	1	0	1	0
Striping Technician	D	3	0	2	0
	TOTALS	10	0	10	0

Narrative of Personnel Changes	New Position		Reclassification		
	Title	Pay Grade	From Job Title	To Job Title	Pay Grade (if reclassification creates new job title)
Re-class Striping Technician			Striping Tech	Sign Specialist	TBD

Street-Fleet Maintenance

Position	Pay Grade	FY 2014			FY 2015		
		Full-Time	Part-Time	Unfunded	Full-Time	Part-Time	Unfunded
Fleet Maintenance Manager	H	1	0	0	1	0	0
Sr Fleet Maintenance Technician	F	4	0	0	5	0	0
Office Manager	F	1	0	0	1	0	0
Mechanic	E	1	0	1	1	0	0
Administrative Assistant	D	0	1	0	1	0	0
Inventory Specialist	D	1	0	0	1	0	0
Preventive Maintenance PM Technician	TBD	1	0	0	1	0	1
Total		9	1	1	11	0	1

	New Position		Reclassification		
	Title	Pay Grade	From Job Title	To Job Title	Pay Grade (if reclassification creates new job title)
1 PT Admin Asst to 1 FT Admin Asst					
(1) Vacant Mechanic position-Funded					
Add (1) Senior Maintenance Tech from Streets					
Preventative Maintenance Tech Unfunded					

Budget Notes/Objectives

Maintenance Division

The Street Department, Maintenance Division includes Street and Landscape Maintenance.

The Street Maintenance Division currently maintains 292 miles of roadway and a portion of designated medians including, Downtown Franklin, Streetscape, Franklin Police Dept., the Transit Authority, and landscaping along the right-of-way of Mack Hatcher Pkwy from Murfreesboro Road to Franklin Road.

Compost & Salt Storage Facilities

The Compost facility allows the Street Department and Solid Waste Department to save associated cost with landfill tip fees, fuel costs, vehicle repair and maintenance.

In 2012-2013, a salt brine storage facility was constructed @ Incinerator road with the ability to store 13,000 gallon of salt brine solution.

Infrared Patch Truck

An infrared patch truck was purchased, and delivered in 2012. Since implementation of this new patch method in Jan. 2012, the cost savings as compared to conventional asphalt patch methods has more than offset the purchase price of the truck.

Infrared Patchwork Completed:

9,396.00 sq. yards of patching has been completed utilizing the new patch method.

Total Green Savings:

Fiscal Year 2013 Street dept. realized a cost savings of \$124,145.79. Infrared technology vs Conventional patching methods.

Salt Brine

Pre-event calculated costs for standard salt spreading method are approx. \$7.50 per lane mile. Pre-event calculated costs for salt brine method are approx. \$1.70 per lane mile. Post-event calculations could double the amount for both methods.

Total Green Savings:

Budget Notes/Objectives

Traffic Division

The Street Department, Traffic Division currently maintains 108 signalized intersections within the City of Franklin. All signal heads are equipped with LED lenses.

Traffic Division personnel are responsible for maintenance of all downtown decorative street lights, City school flashers, high mast interstate lighting located within the City limits along I-65, McEwen interchange, McEwen Drive from Carothers to Coolsprings Blvd., Carothers Parkway walking trail, and electronic pedestrian crosswalks throughout the City.

The Traffic Division sign shop manufactures and installs a variety of signs in compliance with M.U.T.C.D. guidelines. The variety of signs produced include: street name signs, directional signs, regulatory signs, informational signs, speed limit and parking signs, etc. In-house sign manufacturing is a cost savings, as well as a time saver. Sign production is performed on an as needed basis, with no delivery time as a factor. No freight or shipping charges are incurred, as compared to purchase from an outside vendor.

With commercial grade printing capabilities, the sign design and production system has been utilized for the production of signs for the Parks, Solid Waste, and Police Depts. Seasonal downtown decorative banners were produced and installed during the Spring.

Goal:

We began a pilot program changing out non-incandescent lighting within the downtown area to Light Emitting Diode. Currently, the Traffic Division has converted 93% of Downtown street lights to LED lighting. Grant monies have been applied for (on-going).

GPS and reflectivity activities have been performed on City wide signage, including street names, advanced warning, directional, stop, yield etc. For asset management purposes, all signal data was gathered and entered into the Hansen data base system. This process was completed over the course of several months by physically inspecting, counting and taking GPS points for each signal component. The components include signal poles, traffic signal heads, pedestrian poles and heads, signal control boxes with controllers and monitors, UPS units, signal loops, etc.

Budget Notes/Objectives

Fleet Maintenance

The Fleet Maintenance Division consists of eight (8) full time employees and one (1) part-time employee. This division provides mechanical services for most of the City's entire fleet of vehicles and equipment. The large variety of vehicles and equipment in the City's fleet include: police cars, passenger vehicles, pickup trucks, dump trucks, heavy equipment, fire apparatus, etc. Due to frequent stop and go activity, and little to no interstate driving, City vehicles have more than the normal wear and tear of everyday vehicles. Mechanical services provided include: a preventive maintenance program, tire changes, replacement of defective/failed parts, and other misc. services.

Goal:

Continual improvement of work flow and process, providing excellent service for all City of Franklin vehicles and equipment.

To keep accurate history of expenditures for service and repairs of City's Fleet for life-cycle analysis, improving vehicle and equipment turnover.

Measurement/Goal	FY11	FY12	FY13	*FY14
Percent Outsourced	9%	14%	13%	22%
Percent of Service Calls	4%	6%	7%	8%
Cost of Repairs Performed by Fleet Maintenance Per Department				
Administration	\$1,300	\$660	\$56.82	\$253.96
City Hall Maintenance	\$972	\$0	\$0	\$48.10
Building & Neighborhood Services	\$2,871	\$5,299	\$6,047.51	\$3926.91
Engineering	\$226	\$920	\$125.43	\$391.35
Fire	\$37,516	\$80,804	\$84,926.21	\$141,287.25
Human Resources	\$177	\$2,330	\$268.19	\$1,801.97
IT	\$181	\$290	\$1,195.01	\$642.03
Parks	\$12,161	\$21,084	\$9,516.73	\$12,372.63
Planning	\$0	\$534	\$117.69	\$0
Police	\$60,600	\$137,436	\$93,776.28	\$77,216.59
Sanitation & Environmental Services	\$158,835	\$244,967	\$203,852.85	\$185,527.89
TMA	N/A	N/A	N/A	N/A
Water	\$32,138	\$28,606	\$45,307.36	\$58,294.03
Total	\$307,400	\$522,900	\$445,190.08	\$481,762.71

Measurement/Goal	FY11	FY12	FY13	*FY14
Total Number of Repairs	2,646	1,079	1,264	1,362

**as of December 31,2013*



Budget Notes/Objectives

Fleet Maintenance

PERSONNEL:

The Fleet Maintenance Division requests the following positions:

- Move the part-time Administrative Assistant to a full time position in the new budget year. There will be no other changes to our personnel.

OPERATIONS:

82610 Vehicle Repair & Maintenance Services – This account will increase by 15% due to our aging fire apparatuses. We have over 80 PD vehicles that are 8-10 years old with over 100K miles not including the idle time on them that need to be replaced in the near future.

82780 Training, Outside – This account has increased due to ongoing technical changes in our vehicles and equipment. The training class cost has increased as well. All 6 technicians will be attending multiple classes next year for advanced training to better serve our customers.

83620 Equipment Parts & Supplies – This account will increase by 15% due to replacement components by Fleet Maintenance in house of aging vehicles and Fire trucks.

89530 Machinery & Equipment (>\$25,000) – After the spring move to the new facility there will still be numerous items that will need to be purchased for the shop to function for the tech's and to better serve our customers. We will not know the extent of these purchases until after work in the new facility begins. I would like to add an alignment system to our shop this budget year, decreasing the outsourcing need and reducing the tire usage by being able to check all vehicles and trucks at the scheduled PM Service, giving a 3-4 year return on ROI.

- Hunter Front Alignment Machine \$63,500
- 4 Steril Koni lifts for the fire and class 4-8 trucks \$44,000
- Miscellaneous equipment and tools for start-up \$12,500

Budget Notes/Objectives

Stormwater Fund

The Street Department, Stormwater Division performs routine maintenance procedures, as well as small repairs and upgrades to failing drainage systems. Work activities are performed daily.

A new self-contained Storm vacuum will run daily clearing Storm drain inlet structures from debris collected debris.

Two (2) laptops have been purchased for inspectors to use in the field. This allows the inspectors to enter and communicate data pertaining to new storm drainage installation, erosion and sediment control inspections, etc. while remaining on the job site.

A position of Water Quality Specialist was added to the Stormwater Division personnel.

The Stormwater Division consists of seventeen (17) employees: 1 coordinator; 1 water quality specialist, 2 stormwater inspectors; 1 compliance inspector; 1 supervisor; & 11 maintenance personnel.

Stormwater is requesting \$397,000 in consultant services as part of the operations budget. This funding is for our BMP Manual Update, GIS Impervious Surface Update and Stormwater Management Master Plan.

Stormwater is requesting \$1,946,000 in Capital for storm water improvement projects.



Budget Notes/Objectives

Street Aid & Transportation Fund

Recent in-house studies have shown that we must be resurfacing at least 8.5%-10% of our entire street system per year. The study also indicates that the longer the topping is exposed to ultra violet sun rays and inclement weather the more rapidly it deteriorates with age. If the surface mix is not replaced or resurfaced every 12 years we will begin to see increased costs for repair and maintenance of the base courses.

We currently maintain 292 miles of roadway throughout the City. Many of these roadways will receive cold planning in addition to surface treatment.

Future projections show that we need to budget 2.8 million per year through 2018 to maintain this 13-14 year resurfacing cycle. These figures do not represent future annexations. We are currently on a 20 year resurfacing cycle.