

**CITY OF LEAWOOD**  
**PUBLIC WORKS DEPARTMENT**  
**STREET DIVISION**  
**2015 ANNUAL YEAR END REPORT**

# STREET DIVISION YEAR END REPORT

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# **CREW SUMMARIES**

## CONCRETE CREW

The Concrete Crew is responsible for the repair and maintenance of all City owned curbing, sidewalks, traffic islands, and other concrete structures located within the City right-of-way.

Leaf vac operation in the fall is also performed by this crew.

In 2015, the Concrete Crew consisted of the following types of personnel:

One (1) Senior Crewleader  
Three (3) Maintenance Worker 2's  
Two (2) Maintenance Worker 1's

The Concrete Crew completed the following tasks in 2015:

Replaced 2,704 lineal feet of curb in 2,928.50 work hours.  
Replaced 1,408 lineal feet of sidewalk in 2,241.25 work hours.

Total Concrete Used = 250.0 Cubic Yards

## **ASPHALT CREW**

The 2015 Asphalt Crew consisted of the following types of personnel:

One (1) Crewleader 2  
One (1) Maintenance Worker-Senior  
Two (2) Maintenance Worker 2's  
One (1) Maintenance Worker 1

The Asphalt Crew performs street repairs.  
Street repairs are divided into six (6) categories:

### **STREET RECONSTRUCTION**

This repair method involves removing and rebuilding the sub-base of the street, installing underdrains when necessary and placing a new surface.

2015 Repairs totaled: 123.36 TONS of Asphalt in 329.50 work hours

### **MILLING/RESURFACING**

This repair method involves milling the failed surface to a depth of two to four inches and placing a new street surface.

2015 Repairs totaled: 1,554.92 TONS of Asphalt in 4,188.75 work hours

### **CURB-FILL**

Replacing the asphalt in front of new curbs that have been replaced by City Crews. In some areas this requires minor milling to match the existing pavement.

2015 Repairs totaled: 457.32 TONS of Asphalt in 1,166 work hours.

### **POT HOLES**

In 2015 the crew spent 658 work hours filling potholes; 28.16 TONS of Asphalt was used.

### **PROJECTS**

In 2015, zero (0) hours and zero TONS of Asphalt were reported used on CITY Property. PROJECTS are usually managed by the Engineering Division and not tasked out to the Street Maintenance Asphalt Crew.

### **CRACK FILLING**

The Asphalt Crew seals cracks in the street right-of-way to prevent moisture damage.

In 2015, 24,450 POUNDS of Asphalt was used in 1,346.25 work hours.

## ASPHALT USE

Below is a description of how the asphalt was used in 2015:

Repair Type:	Tons
Asphalt Reconstruction	123.36
Milling Repair	1,554.92
Curbsfill	457.32
Potholes	28.16
Projects	0.00
Total	2,163.76

### Type of Asphalt Used:

Fine mix (BM-1)	749.63
Surface mix (BM-2)	1,088.68
APWA Type III	231.18
Base mix (BM-2B)	92.23
Cold Patch	2.04
Total	2,163.76

### Type of street repair:

Arterial	35.06
Collector	28.60
Residential	2,071.05
City Facility	29.05
Park Trail	0.00
Total	2,163.76

## **ACTION REQUEST CREW**

The primary duty is to respond to Action Requests, complete maintenance requests, replace sidewalks, perform other asphalt and concrete projects, core sampling asphalt pavement and pavement markings.

The Action Crew consists of:

- One (1) Senior Crewleader
- Two (2) Heavy Equipment Operator-Seniors
- One (1) Maintenance Worker-Senior

## **SIDEWALK**

In 2015, the crew worked 2,117 hours completing 1,549 lineal feet of sidewalk; using 111.50 cubic yards of concrete.

## **PAINT STRIPING**

The Action Crew spent 94.50 work hours placing pavement markings including center and edge markings, cross walks, stop bars and turning lanes.

## **CORE DRILLING**

Prior to street reconstruction, a sample of the layers of pavement are taken to determine the strength and durability by drilling a 6-inch diameter sample of street pavement to a depth of 3-11 inches (39.25 WORK HOURS).

## **RIGHT-OF-WAY**

This work includes sod replacement, guard rail replacement, storm sewers, sand blasting graffiti, brush removal, and any other activity in the City right-of-way. This total includes some work done by other crews (518.50 WORK HOURS).

## **ASSISTING PUBLIC WORKS CREWS**

This includes assisting the Sign and Fleet Maintenance Crews. All other assistance will be included in the hours for the kind of work done (292.75 WORK HOURS).

## **MISCELLANEOUS**

Includes hauling material to landfill and restocking dirt and rock supplies for Public Works projects. This includes some work done by other crews (538.50 WORK HOURS).

## SIGN DIVISION

The Sign Department is responsible for the installation and repair of all street and traffic signs within the City. This includes the placing and removal of the "Temporary No Parking" signs. The department also fabricates all of the City's street identification signs along with many of the City's "special" signs. The placement of traffic counters and the processing of traffic counter data are performed by the Sign Department.

In 2015, the Sign Department installed approximately three hundred fifty-two (352) signs. Many of these were replacements for signs that were faded, damaged or missing.

Our "Temporary No Parking" signs program received 931 requests in 2015. The program costs were as follows:

Materials (signs and stakes)	\$3,134.87
Program Labor Cost	\$38,227.44
Program Hours	1,190
Total Cost for this program	\$41,362.31

The cost of the installation and maintenance of Regulatory signs were as follows:

Materials	\$1,590.63
Program Labor Cost	\$10,629.36
Program Hours	466.2
Total Cost for this program	\$12,219.99

The cost of the installation and maintenance of Warning signs were as follows:

Materials	\$1,051.03
Program Labor Cost	\$8,436.00
Program Hours	370
Total Cost for this program	\$9,487.03

The cost of the installation and maintenance of the City's other signs were as follows:

Materials	\$1,194.20
Program Labor Cost	\$38,227.44
Program Hours	1,657.05
Total cost for this program	\$39,421.64

## SIGN DIVISION

ITEM	MUTCD	QUANTITY	COST
TELESPAR POSTS (10')	NA	54	\$1,520.10
TELESPAR POSTS (6')	NA	14	275.80
TELESPAR POSTS (11')	NA	7	203.35
TELESPAR POSTS (12')	NA	3	92.10
		Total Post Cost	\$2,091.35
STOP SIGNS (30" x 30")	R1-1	6	\$218.64
YIELD SIGNS (36"x36"x36")	R1-2	1	25.67
SPEED LIMIT SIGNS	R2-1	16	494.08
NO LEFT TURN SIGNS	R3-2	1	26.00
NO LEFT TURN TIMES SIGN	NLTT	1	13.46
NO U-TURN	R3-4	2	52.00
RIGHT TURN ONLY SIGN	R3-5R	1	48.75
LEFT LANE MUST TURN LEFT SIGN	R3-7	1	35.44
ADVANCE INTERSECTION LANE CONTROL	R3-8g	1	41.00
CENTER LANE ONLY SIGN	R3-9b	1	39.00
KEEP RIGHT SIGN (VIP)	R4-7	3	89.25
ONE WAY SIGNS (36" x 12")	R6-1	3	48.30
NO PARKING SIGN (24" x 24") VIP	R8-3a	4	101.08
NO PARKING SIGN (12" x 12") VIP	R8-3a	12	96.00
SIDEWALK CLOSED SIGN (24" x 18")	R9-9	2	44.58
DO NOT BLOCK INTERSECTION SIGN	R10-7	1	32.50
WEIGHT LIMIT (multiple weights 24" x 36")	R12-5	2	97.92
3/4 MILE PLATE (black + white 24" x 8")	R12-5P	1	10.54
RESERVED HANDICAP PARKING		1	12.84
VAN ACCESSIBLE PLATES (12"x6")		1	4.42
NO MOTOR VEHICLES SIGNS	NA	2	59.16
LEFT TURN SIGNS	W1-1L	1	41.00
RAILROAD CROSSING SIGN	W10-1	1	38.32
NO TRAIN HORN SIGN	W10-9p	1	22.50
BIKE WARNING SIGNS	W11-1	4	118.32
NO OUTLET SIGN (30" x 30")	W14-2	3	60.00
NOT A THROUGH STREET (30" x 30")		1	20.00
300 FEET PLATES	W16-2aP	2	44.58
DIAGONAL ARROW PLATES yellow + black	W16-7P	2	44.58
OBJECT MARKERS	OM1-3	16	215.84
HAZARD MARKERS (left)	OM3-L	1	19.50
SCHOOL PLATES (fluorescent yellow green)	S4-3p	3	38.70
WHEN FLASHING SIGNS	S4-4p	5	111.45
END SCHOOL ZONE SIGNS	S5-2	5	185.00

## SIGN DIVISION

ROAD WORK AHEAD (30" x 30")	W20-1	1	30.00
BIKE ROUTE SIGNS (green + white)	D11-1	2	45.24
DOUBLE ARROW PLATES (green + white)	M6-4	2	16.00
NEIGHBORHOOD WATCH SIGNS	NA	3	58.50
LEAWOOD HISTORICAL DISTRICT	NA	1	22.62
LEE FARMHOUSE ROAD HISTORICAL	NA	2	28.88
DOG PARK ... CALL POLICE DEPARTMENT	NA	1	7.35
DOG PARK CLOSED (18" x 12" brown white)	NA	1	7.26
OPEN PLATE (12" x 6" brown white)	NA	1	4.42
OPEN / CLOSE PLATE (12" x 6" brown white)	NA	1	4.42
STAY BACK 50 FEET sticker (18" x 12")	NA	6	45.90
STAY BACK 50 FEET signs (24" x 18")	NA	2	46.80
STAY BACK 50 FEET sign (18" x 12")	NA	1	11.94
PARK PROPERTY ENDS DO NOT ENTER	NA	4	46.20
TEMPORARY HANDICAP PARKING	NA	20	30.00
TRUCK ROLLOFF BED PARKING NUMBERS	NA	11	49.50
TRUCK NUMBERS (white)	NA	6	4.02
TRUCK NUMBERS (black)	NA	12	7.80
TRUCK BED NUMBERS (white)	NA	12	8.04
CITY OF LEAWOOD STICKERS (black)	NA	8	7.20
CITY OF LEAWOOD STICKERS (white)	NA	3	3.00
TRUCK PARKING SPACE NUMBERS	NA	13	16.90
TRUCK SPREADER NUMBERS	NA	32	41.60
POLICE CAR NUMBERS (blue + white)	NA	23	23.00
MOTORCYCLE NUMBERS	NA	3	3.00
MOTORCYCLE NAMES (white)	NA	6	6.00
SCHOOL RESOURCE OFFICER (stickers)	NA	4	7.00
UNIT # STICKERS (red 4" x 4")	NA	4	0.40
SERVICE REQUESTED STICKERS blue	NA	4	1.20
STREET IDENTIFICATION PLATES	NA	42	701.25

Total Sign Cost \$3,835.86

TOTAL POST COST \$2,091.35

TOTAL SIGN COST \$3,835.86

HARDWARE \$20.96

TEMPORARY NO PARKING \$41,362.31

**YEAR END MATERIAL COST \$47,310.48**

## **STORMWATER CREW**

The Stormwater Crew is responsible to maintain the current storm water infrastructure consisting of storm boxes, the storm pipe network connecting infrastructures, improved channels and box culverts.

In 2015 the Storm Water Crew consisted of:

One (1) Crewleader-Senior

One (1) Heavy Equipment Operator-Senior

One (1) Maintenance Worker-Senior

## **PIPE MAINTENANCE**

In 2015, the crew worked 342 hours on 33 Segments of Pipe

## **STRUCTURE REPAIRS**

The crew repairs 9 Inlets, and 15 Segments in 63 total work hours.

## **STRUCTURE INSPECTIONS**

The crew spent 562.75 total work hours inspecting, 629 Inlets, 96 Junction Boxes and 414 pipe Segments.

## **TELEVISION PIPE LINE**

The crew work 1,217 total work hours and televised 47,333.50 lineal feet of pipe.

## **STREET SWEEPING CREW**

The City of Leawood has one (1) Heavy Equipment Operator-Senior that runs the Street Sweeper.

The City owns and operates one (1) 2011 Schwarze A7000 Regen Air Street Sweeper. The operator is assigned to the sweeper to insure increased productivity, consistent operator maintenance, and enhanced diagnostic and troubleshooting capabilities.

The production goal of the program is to sweep every public residential and collector street six (6) times and arterial streets ten (10) times per calendar year.

### **Sweeping Statistics for the Year:**

1,206 TONS OF DEBRIS swept  
Recycled cellular materials in Cubic Yard = 641

2,896.50 total curb miles swept  
1,285.25 total hours sweeping

The average sweeping rate of 2.25 curb miles per hour.

# **MAINTENANCE PROGRAMS**

**SNOW REMOVAL PROGRAM**

DATE	BLADE CHANGES	REG HOURS	O.T. HOURS	SALT TONS	CHLOR. GAL	SNOW MEALS	SNOW DEPTH	LOW TEMP	HIGH TEMP	PLOW YES/NO	TOTAL COST
1 1/3-4/15	\$215.00	0.00	181.00	284.25	3,650.00	\$0.00	.5"	10	35	No	\$24,786.34
2 1/12/2015	\$0.00	115.00	0.00	134.90	450.00	\$0.00	Dusting	14	33	No	\$9,992.90
3 2/1-2/15	\$215.00	100.00	107.50	318.50	1,300.00	\$28.00	2"	6	34	No	\$23,699.06
4 2/4-5/15	\$0.00	131.50	1.50	127.50	1,000.00	\$0.00	1"	9	25	No	\$10,605.76
5 2/15-16/15	\$1,534.24	209.00	231.00	360.85	3,350.00	\$175.94	3"	12	18	Yes	\$35,785.45
6 2/17/2015	\$0.00	148.50	16.50	148.50	1,250.00	\$0.00	.5"	8	32	No	\$12,793.06
7 2/21/2015	\$0.00	0.00	52.00	31.60	0.00	\$0.00	Rain/Mist	31	34	No	\$3,213.18
8 2/25/2015	\$0.00	54.00	24.00	0.00	0.00	\$0.00	Watch	18	40	No	\$1,755.00
9 2/28/15-3/1/15	\$44.25	0.00	554.50	554.50	0.00	\$227.86	4"	21	32	Yes	\$46,184.72
10 3/4/2015	\$0.00	72.00	0.00	41.20	0.00	\$0.00	Dusting	22	22	No	\$3,610.26
11 11/27-28/15	\$0.00	0.00	59.00	63.75	0.00	\$0.00	Rain/Mist	31	36	No	\$5,457.11
12 12/27/2015	\$0.00	224	184	406	0	163	2"	20	32	Yes	\$33,480.19

**Total Cost Of Snow Removal For 2015**

**\$211,363.03**

## LEAF COLLECTION PROGRAM

Every fall the Public Works Department collects leaves from the curbs and storm drain inlets. This maintenance currently occurs where the trees are mature and routinely cause maintenance problems. The leaves collected under this program are all recycled at Suburban Lawnside Recycling Facility.

The 2014-2015 program finished in January. The fall program started in November and is ongoing into 2016.

Total cubic yards of Program leaves collected and recycled in 2015	308.00
Total Hours Worked On This Program	700.75
Total Program Cost	\$18,122.10

## CRACKFILLING PROGRAM

The crackfilling program is designed to slow or stop the infiltration of water into the pavement and subbase by sealing cracks in the pavement with a rubberized material. Our program this year included sealing cracks in streets that have been rehabilitated in the last six years, arterial roads, and subdivisions scheduled for the slurry seal program.

### Subdivisions:

- Cloisters
- Verona Gardens
- Pavillions
- Whitehorse
- Bridgewood

### Materials Used And Cost Of Program

<b>Materials</b>	<b>Quantities</b>	<b>Unit Cost</b>	<b>Total Cost</b>
Sealant -lbs	24,450.00	\$0.50	\$12,322.80
Regular Hours	1,346.25	\$15.00	\$20,193.75
O.T. Hours	16.00	\$22.50	\$360.00
	<b>TOTAL COST</b>		<b>\$32,876.55</b>

## SLURRY SEAL PROGRAM

A slurry seal is the application of a mixture of water, asphalt emulsion, aggregate (very small crushed rock), and additives to an existing asphalt pavement surface. The work was performed by Vance Brothers Contractors this year. The program started on 8/19/2015 and was completed on 9/9/2015.

Square yards of pavement treated:	217,872
Cost of program per yard:	\$1.80
Total cost of this years program:	\$392,182.00

### Sub-Divisions / Streets Slurried:

- Cloisters
- Verona Gardens
- Pavillions
- Whitehorse
- Bridgewood

# **SUMMARY OF TASKS AND HOURS**

## DESCRIPTION OF WORK CATEGORIES

Tasks completed by the Street Division in 2015 have been divided into categories. Below is a description and hours spent at each category.

SNOW REMOVAL / SNOW EQUIPMENT – 2,404.25 HOURS

This category covers all work pertaining to the snow removal program. This includes equipment preparation, snow removal, equipment cleanup and maintenance.

RIGHT OF WAY / MISC. – 1,057.00 HOURS

Represents all work performed within the City right of way, i.e. (guard rail repair, brush cutting, trash pickup, traffic island maintenance, improving drainage ditches). Also included in this category are other tasks such as hauling debris to the landfill, hauling topsoil, and hauling aggregate.

STREET MAINTENANCE – 6,381.50 HOURS

All repairs and Maintenance performed on City of Leawood streets. (Pothole repair, milling & resurfacing, sub-base repair, inspecting the slurry seal program). This does not include the crackfilling program.

CURB MAINTENANCE – 2,928.50 HOURS

Repair and replacement of curbing, and driveway approaches.

SIDEWALKS – 4,376.25 HOURS

Repair or replacement of asphalt and concrete sidewalks.

SHOP / EQUIPMENT – 6,172.50 HOURS

Maintenance performed on the Public Works facility, department vehicles, and equipment.

STRUCTURE / PIPE INSPECTION / MAINTENANCE – 4,146.00 HOURS

Inspection, reconstruction and maintenance, (including removing debris) of storm drainage structures.

TRAINING / SEMINAR / ADMINISTRATION – 2,137.25 HOURS

Includes local seminars, non credit classes, safety meetings, vehicle, and equipment training.

## DESCRIPTION OF WORK CATEGORIES

CRACKFILLING PROGRAM – All hours related to the crackfilling program.	1,346.25 HOURS
SWEEPER – Includes sweeping and operators maintenance hours.	1,415.75 HOURS
SIGNS – Hours pertaining to the installation, maintenance and constructing street, traffic, and temporary no parking signs.	3,683.25 HOURS
PAINT STRIPING – Hours spent painting street markings and crosswalks in the City right of way	94.50 HOURS
FLEET HELP – Hours spent assisting fleet maintenance crews.	45.50 HOURS
LEAF – VAC PROGRAM – Hours spent collecting leaves from curbs and storm drain inlets.	700.75 HOURS
CITY FACILITIES – Hours spent performing miscellaneous duties at City Hall, Public Works Facility, and all other City owned facilities.	317.50 HOURS
SUPERVISOR – This category accounts for the supervisory hours for the year.	1,951.00 HOURS

## SUMMARY OF TASK HOURS

2015

This summary shows the hours spent on each task in the Street Department

Task	Jan	Feb	Mar	Apr	May	Jun	Jul
Administration	28.50	1.00	10.50	8.00	14.00	19.00	43.00
Asphalt Curbfill	0.00	0.00	64.50	169.00	62.50	81.50	169.00
Asphalt Milling Repair	0.00	0.00	235.50	541.00	403.50	689.25	541.00
Asphalt Park Trail	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Projects	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Reconstruction	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Sidewalk	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Concrete Curb Replacement	0.00	0.00	196.00	373.50	202.50	160.00	398.50
Concrete Flatwork	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Concrete Pavement Patch	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Concrete Pavement Recon	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Concrete Sidewalk	289.00	136.00	560.00	714.00	665.25	812.00	350.00
Coredrilling	0.00	18.00	0.00	15.25	6.00	0.00	0.00
Crackfilling	502.00	291.50	254.75	0.00	0.00	0.00	0.00
Fleet Department Help	0.00	44.50	0.00	1.00	0.00	0.00	0.00
Joint Sealing	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Leaf Vac	167.00	0.00	0.00	0.00	0.00	0.00	0.00
Miscellaneous	58.00	0.00	68.50	65.50	41.00	27.00	32.50
Paint Striping	0.00	0.00	0.00	0.00	14.00	0.00	0.00
Pipe Inspection	204.25	41.50	161.50	34.50	89.50	93.00	65.00
Pipe Maintenance	0.00	0.00	61.50	31.00	29.00	145.00	21.50
Pipe Repair	7.00	59.50	0.00	0.00	0.00	69.50	10.00
Potholes	94.00	85.50	55.00	102.00	45.50	40.00	45.00
Project	0.00	0.00	0.00	33.00	0.00	0.00	0.00
Right of Way	68.00	60.00	74.50	127.50	42.00	63.00	44.00
Shop/Equipment	517.50	576.00	633.50	352.00	462.25	541.50	534.50
Sign Department	298.00	251.75	338.00	317.00	232.00	198.75	321.00
Sign Department Help	0.00	41.00	0.00	5.00	0.00	3.50	160.75
Snow Equipment	247.50	490.50	71.50	0.00	0.00	0.00	0.00
Snow Removal	99.00	484.50	91.50	0.00	0.00	0.00	0.00
Structure Inspection	52.00	61.50	11.50	48.00	7.00	48.50	37.00
Structure Maintenance	9.00	3.00	10.50	73.00	135.00	12.00	53.75
Structure Repair	0.00	0.00	0.00	0.00	0.00	15.00	24.00
Supervisor	156.50	159.00	169.50	168.00	150.00	176.00	168.50
Sweeper	84.00	49.50	118.25	75.50	136.50	129.75	142.25
Sweeper Maintenance	15.50	7.50	27.00	13.00	8.00	9.00	9.50
Training-Seminar	95.50	156.50	88.50	120.50	162.50	8.50	101.50
TV Inspection	9.50	66.50	120.50	203.50	136.00	70.00	132.50

## SUMMARY OF TASK HOURS

2015

This summary shows the hours spent on each task in the Street Department

Task	Aug	Sep	Oct	Nov	Dec	TOTALS
Administration	35.00	39.50	33.50	40.00	45.00	317.00
Asphalt Curbfill	124.50	197.00	175.00	96.00	27.00	1,166.00
Asphalt Milling Repair	756.75	361.50	290.25	194.00	176.00	4,188.75
Asphalt Park Trail	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Projects	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Reconstruction	233.50	96.00	0.00	0.00	0.00	329.50
Asphalt Sidewalk	0.00	0.00	0.00	0.00	0.00	0.00
Concrete Curb Replacement	279.50	447.50	545.00	251.00	75.00	2,928.50
Concrete Flatwork	0.00	0.00	0.00	0.00	0.00	0.00
Concrete Pavement Patch	0.00	0.00	0.00	0.00	0.00	0.00
Concrete Pavement Recon	0.00	0.00	0.00	0.00	0.00	0.00
Concrete Sidewalk	246.00	149.50	398.50	56.00	0.00	4,376.25
Coredrilling	0.00	0.00	0.00	0.00	0.00	39.25
Crackfilling	0.00	0.00	0.00	0.00	298.00	1,346.25
Fleet Department Help	0.00	0.00	0.00	0.00	0.00	45.50
Joint Sealing	0.00	0.00	0.00	0.00	0.00	0.00
Leaf Vac.	0.00	0.00	0.00	119.25	414.50	700.75
Miscellaneous	44.50	70.00	64.00	27.50	40.00	538.50
Paint Striping	32.00	42.50	6.00	0.00	0.00	94.50
Pipe Inspection	158.00	145.00	170.00	82.00	79.50	1,323.75
Pipe Maintenance	10.50	26.50	6.00	0.00	11.00	342.00
Pipe Repair	0.00	11.00	0.00	0.00	0.00	157.00
Potholes	0.00	32.00	38.50	0.00	120.50	658.00
Project	176.50	108.00	0.00	0.00	0.00	317.50
Right of Way	5.50	34.00	0.00	0.00	0.00	518.50
Shop/Equipment	373.00	459.50	468.75	507.50	746.50	6,172.50
Sign Department	336.00	281.00	310.00	284.00	268.50	3,436.00
Sign Department Help	0.00	3.50	0.00	0.00	33.50	247.25
Snow Equipment	0.00	0.00	0.00	486.00	106.50	1,402.00
Snow Removal	0.00	0.00	0.00	0.00	327.25	1,002.25
Structure Inspection	2.00	6.50	25.50	81.50	145.75	526.75
Structure Maintenance	20.75	16.00	72.00	102.00	9.00	516.00
Structure Repair	4.00	20.00	0.00	0.00	0.00	63.00
Supervisor	167.00	164.50	164.50	141.50	166.00	1,951.00
Sweeper	138.50	154.50	129.00	103.50	24.00	1,285.25
Sweeper Maintenance	10.00	11.50	10.00	9.50	0.00	130.50
Training-Seminar	68.50	412.50	361.75	181.00	63.00	1,820.25
TV Inspection	201.00	75.00	56.00	78.00	69.00	1,217.50
					YEAR	39,157.75

**BREAKDOWN OF WORK HOURS  
STREET DIVISION**

TASKS	HOURS
Snow Removal / Equipment	2,404.25
Right of Way / Miscellaneous	1,057.00
Street Maintenance	6,381.50
Curb Maintenance	2,928.50
Sidewalks	4,376.25
Shop /Equipment	6,172.50
Structure / Pipe Inspection / Maintenance	4,146.00
Training / Seminar / Administration	2,137.25
Crackfill Program	1,346.25
Sweeper	1,415.75
Signs	3,683.25
Paint Striping	94.50
Fleet Help	45.50
Leaf Vac Program	700.75
City Facilities	317.50
Supervisor	1,951.00
Total Hours Worked	39,157.75

## OVERTIME SUMMARY

This summary describes how overtime hours were used in the Street Division in 2015.

CATEGORY	HOURS
Administration	6.00
Asphalt Curbfill	0.75
Asphalt Milling Repair	8.75
Asphalt Park Trail	0.00
Asphalt Projects	0.00
Asphalt Reconstruction	0.00
Asphalt Sidewalk	0.00
Concrete Curb Replacement	4.50
Concrete Flatwork	0.00
Concrete Pavement Patch	0.00
Concrete Pavement Recon	0.00
Concrete Sidewalk	6.50
Coredrilling	0.00
Crackfilling	16.00
Fleet Department Help	0.00
Joint Sealing	0.00
Leaf Vac	0.00
Miscellaneous	0.00
Paint Striping	0.00
Pipe Inspection	1.50
Pipe Maintenance	0.00
Pipe Repair	0.00
Potholes	0.00
Project	0.00
Right of Way	14.25
Shop/Equipment	3.00
Sign Department	4.00
Sign Department Help	0.00
Snow Equipment	0.00
Snow Removal	984.00
Structure Inspection	0.00
Structure Maintenance	7.50
Structure Repair	0.00
Supervisor	0.00
Sweeper	0.00
Sweeper Maintenance	0.00
Training-Seminar	47.00
TV Inspection	0.00
<b>TOTAL OVERTIME</b>	<b>1,103.75</b>

## YEAR END COMPARISONS

This summary compares work quantities in the Street Department

<b>CONCRETE</b>	<b>UNIT</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>
Curb Replacement	Ln Ft	8,942.00	7,816.00	7,765.00	6,599.00	3,906.00	3,533.00	2,704.00
Sidewalks	Ln Ft	793	1,392.00	1,110.00	4,201.00	1,265.00	1,402.00	2,957.00
Storm Drains	Each	44.00	22.00	32.00	25.00	16.00	12.00	9.00
<b>ASPHALT</b>								
Pothole Repair	Tons	29.22	49.09	42.69	22.88	21.76	33.51	28.16
Milling Repair	Tons	1,714.47	1,629.99	1,555.50	1,358.89	1,470.86	1,432.02	1,554.92
Curbfill	Tons	1,118.71	1,032.21	1,026.53	846.51	579.31	533.31	457.32
Rehabilitation	Tons	88.37	7.04	132.45	0.00	0.00	112.76	123.36
Projects	Tons	168.29	122.41	106.54	107.09	73.17	190.95	0.00
<b>Total Asphalt Used</b>		<b>3,119.06</b>	<b>2,840.74</b>	<b>2,863.71</b>	<b>2,335.37</b>	<b>2,145.10</b>	<b>2,302.55</b>	<b>2,163.76</b>
Street Sweeping	Curbmiles	3,182.00	2,675.00	2,734.00	3,705.00	3,513.00	2,974.00	2,896.50
Leaf Pickup	Cubic Yd	1,078.00	910.00	322.00	630.00	238.00	742.00	308.00
Crackfill Sealant	Pounds	34,320.00	21,600.00	21,600.00	67,263.00	22,527.00	43,325.00	24,450.00
<b>STORMWATER</b>								
Storm Sewer TV'd	Ln Ft	65,990.90	39,094.00	48,610.80	51,958.10	30,951.00	59,583.40	47,333.50
<b>SIGN DEPARTMENT</b>								
Temp No Parking	Each	868	949	883	993	899	906	931
Regulatory Installed	Each	158	37	613	1,028	158	38	59
Warning Installed	Each	22	8	25	132	148	61	49
Other Installed	Each	526	302	1,041	479	1,814	1,185	244