What to expect when you're collecting:

We interviewed a Pro to find out...

Mary Crane

Sr. Software Engineer

Center for Technology & Training

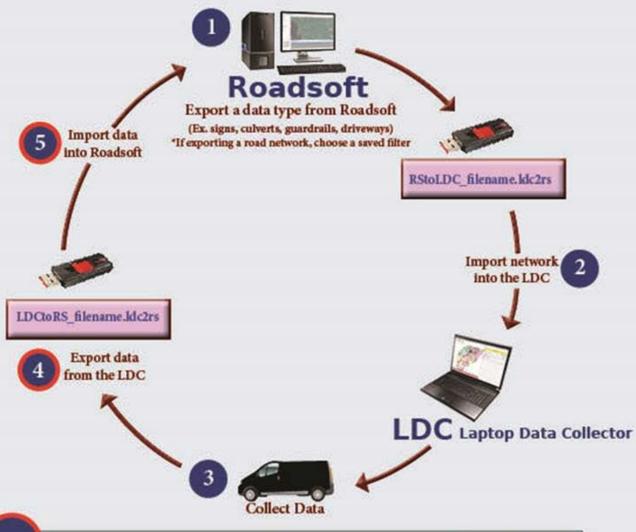




Plan your Route...

Data Collection Cycle

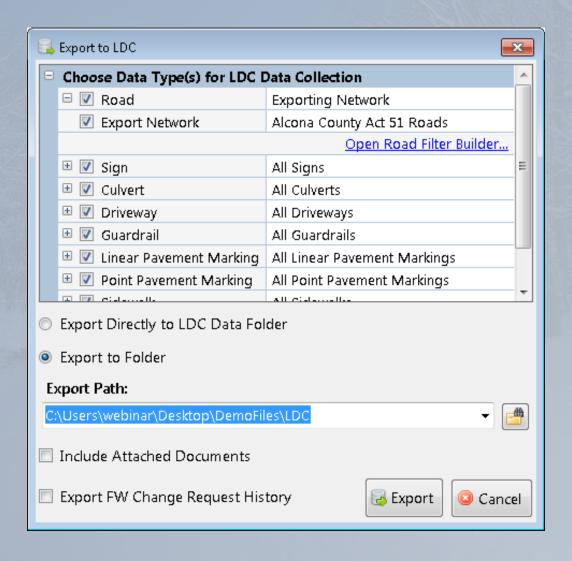
Roadsoft and the Laptop Data Collector



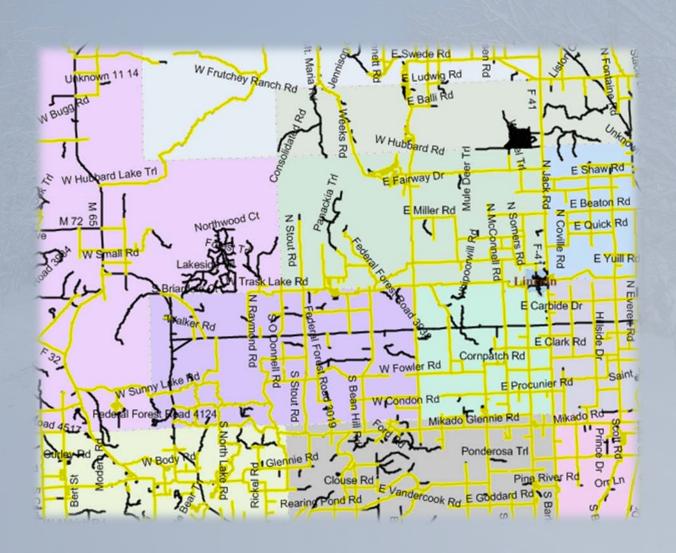
NOTE

Performing steps 4 and 5 after data collection ensures that all of your assets are stored in Roadsoft for managing, reviewing and reporting data. The data cycle should be completed whenever you are collecting data using the LDC.

Choose the data types to collect



Can choose roads by type



Consider "when" might be the best time to collect



Tips

- Do north/south streets during sunrise/sunset
 - So other drivers can see YOU not the sun
- Consider peak hours of roads
- Multi-lanes at night or weekends
- Pavement markings:
 - From South to North and West to East (standard LDC direction)

Things to consider...



Other things to consider...



And...still other things to consider...



In an emergency, find good cover...





Select the Vehicle...

Choosing the right vehicle

- Do you fit?
- Is it comfortable?
- Is it easy to get in an out of?
- Do the climate controls work well?
- Is it dependable?
- Is it safe?

Will you permanently mount your laptop?



Or make it more portable?



To mouse or not to mouse?





Tips for your vehicle

- Always leave with a full tank of fuel
- Check oil weekly
- Check tire pressure
- Make sure you have a spare tire and jack
- Registration and proof of insurance
- Copy of your ROW permit (if you are a private contractor working for an agency)



Pack it all up...

Equipment Needed

• Laptop computer (Windows 7 or newer)

• LDC program installed (and up-to-date)

- GPS Unit (and cables?)
 - USB to Serial Driver(Google: Prolific 2303 driver)
- USB Jump Drive
- 12v power adaptor for laptop
- Wireless mouse?











Equipment Needed

- 1. Laptop or Tablet (charged)
- 2. LDC installed and all updates current
- 3. Portable charger for the laptop
- 4. GPS unit (must be one that guarantees accuracy within 10')
- 5. An additional GPS unit?
- 6. Jump drive
- 7. Mouse







And... depending on what kind of data you are collecting...

- 1. Measuring wheel
- 2. Tape measure (25' foot tape works best) because sometimes lanes are over 16'
- 3. Laser Distance Measure
- 4. Camera
- 5. Metal Detector or Magnet
- 6. Laser Auto-Level & Grade Rod
- 7. Probe Rod/Shovel
- 8. Flashlight





And... what about these things for you?

- 1. Phone charger
- 2. Mobile hotspot
- 3. Any anti-glare for the laptop is helpful
- 4. Glasses for reading
- 5. Sunblock and bug spray
- 6. Snacks
- 7. Drinks
- 8. Motrin for headaches (switching back and forth from the screen to road all day can cause these)

And... for keeping you safe and comfortable...

- 1. Work boots
- 2. Reflective safety green shirts or sweatshirts
- 3. Loose non-fitted shorts or pants
- 4. 360° amber light with multi flash options

Tips:

- use hazard lights
- leave the rear doors open to alert drivers of presence outside the vehicle

Tips:

- Make sure your laptop is fully charged
- Make sure your digital measuring instrument is properly calibrated on a monthly basis

Make sure your dashboard is clear of papers and obstructions



Positioning your GPS unit







Hit the road...

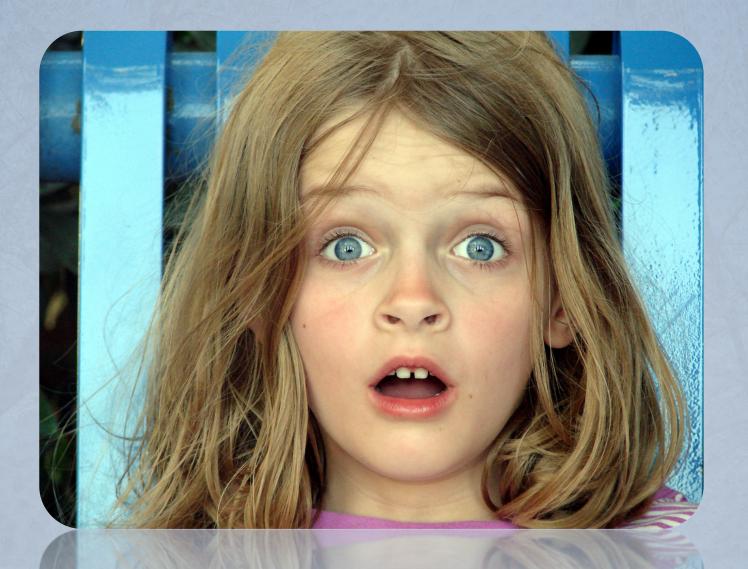
Track your Time?

	FFIC ARC	Daily Time S	ne Sheet										
	the it		TRAFFIC	TECH S	ERVICES	L.L.C.							
NA	ME Brian Burlingham												
_	ATE 3/11/2018												
	41E 311112010	-											
	TIME RECORD FOR JOB	CONTRACT											
	SHIFT JUB	CONTRACT NAME / NUMBER	3										
	WORK	LOCATION	Schedule	TIME Start	Stop	TOTAL TIME	TIME CONVERT	Primary	Local	start mp	end mp	total miles	# of points
1	PM update	V 36th to 45th	schedule	9:45 AM	10:40 AM	0:55	CONVERT	Fillially	55.00	5.953	10.480	4.527	# OI POII ICS
2	Triapase	45th V to UV		10:40 AM	10:45 AM	0:05			5.00	0.000	0.320	0.320	0
3		UV 45th to county line	•	10:45 AM	11:05 AM	0:20			20.00	0.000	1.603	1.603	0
4		U 36th to 44th		11:05 AM	11:35 AM	0:30			30.00	3.016	4.017	1.001	0
5		T 36th to 39th		11:35 AM	11:55 AM	0:20			20.00	1.992	3.496	1.504	0
6		39thV to T		11:55 AM	12:20 PM	0:25			25.00	0.000	1.974	1.974	0
7		44th V to W		12:20 PM	12:35 PM	0:15			15.00	3.005	4.004	0.999	0
8		YZ 46th to 48th		12:35 PM	1:00 PM	0:25			25.00	0.000	0.751	0.751	0
9		46th Z to Y		1:00 PM	1:15 PM	0:15			15.00	0.000	1.003	1.003	0
10		46thY to X		1:15 PM	1:30 PM	0:15		15.00		1.003	2.004	1.001	0
11		X 46 to 47th		1:30 PM	1:35 PM	0:05		5.00		5.014	5.262	0.248	0
12		X 47th to county line		1:35 PM	1:45 PM	0:10			10.00	0.000	0.497	0.497	0
13		47th X to W		1:45 PM	2:00 PM	0:15		15.00		0.000	1.001	1.001	0
14		47th W to UV		2:00 PM	2:15 PM	0:15			15.00	1.001	2.504	1.503	0
		Y 42nd to 48th		2:15 PM	2:50 PM	0:35		35.00		1.007	4.010	3.003	0
-		42nd Z to twp line		3:10 PM	4:30 PM	1:20		80.00		0.000	5.982	5.982	0
15													
16													
17													
18 19													
7 13					l	6:25						26.917	0
					Total Hours	6.42							

Stay organized...

- Keep electronic files:
 - Agency
 - Township
 - Primary
 - Local
- Keep vehicle organized





Expect the Unexpected...

Everyone will want to know what you're up to



Accidents do happen



You'll never know who you might see...





Beating the Data Collection Blues...



Take a break

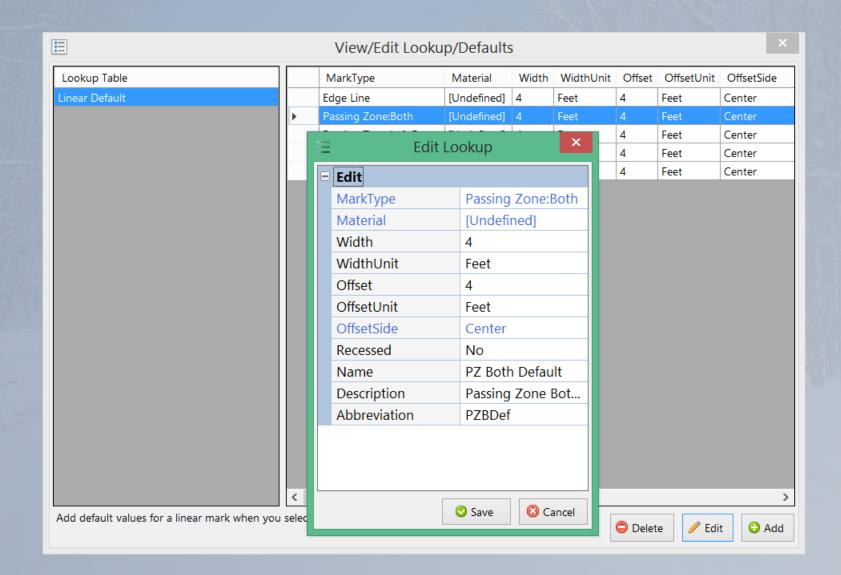
Pull over and:

- Check your email, texts, voicemail
- Phone a friend
- Have lunch or a snack
- Get out and stretch

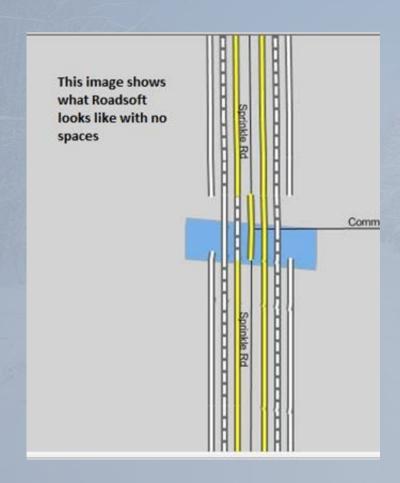


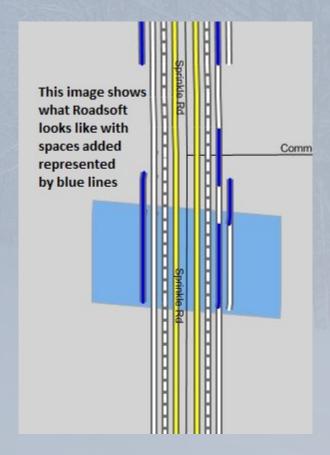
Roadsoft tips...

Use Defaults

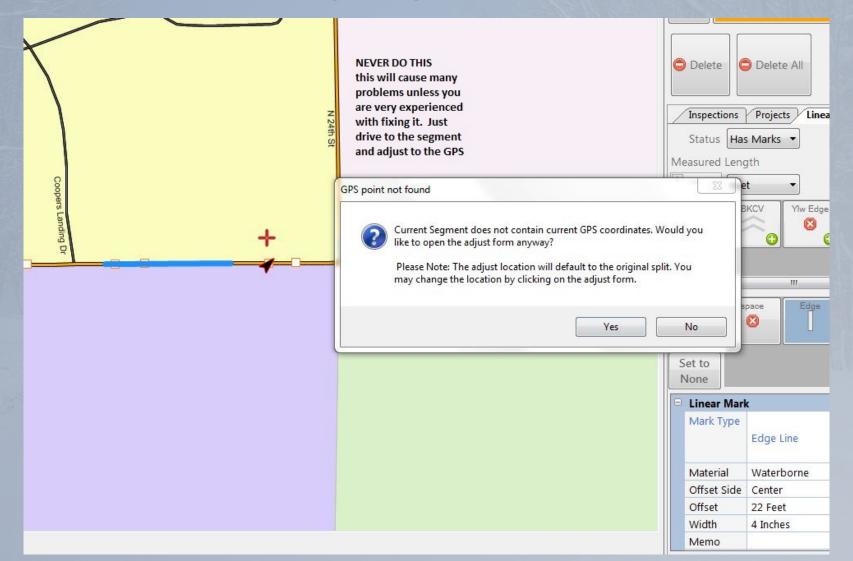


Linear Marks - add spaces too

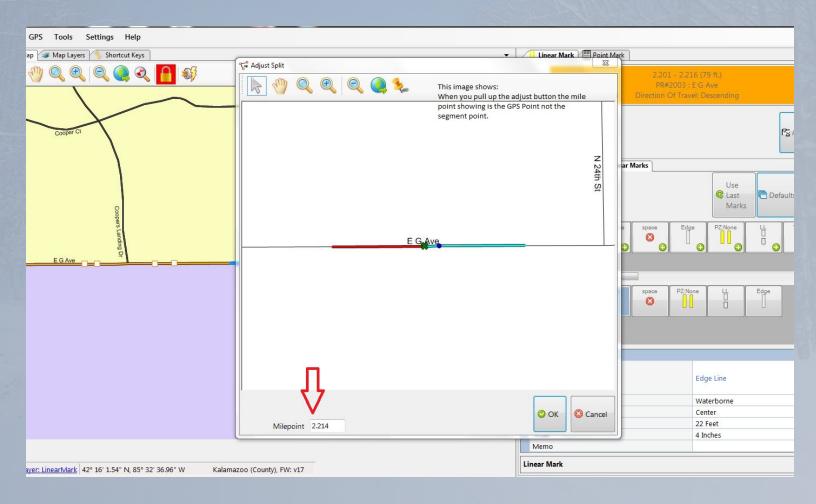




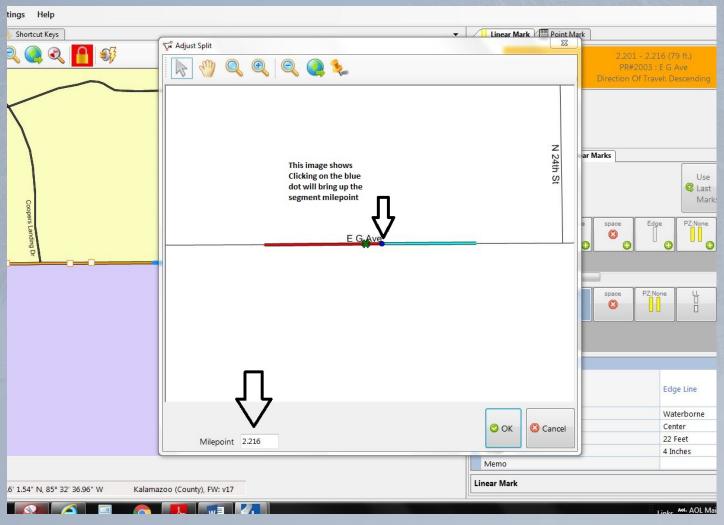
Don't adjust Linear Marks without the GPS



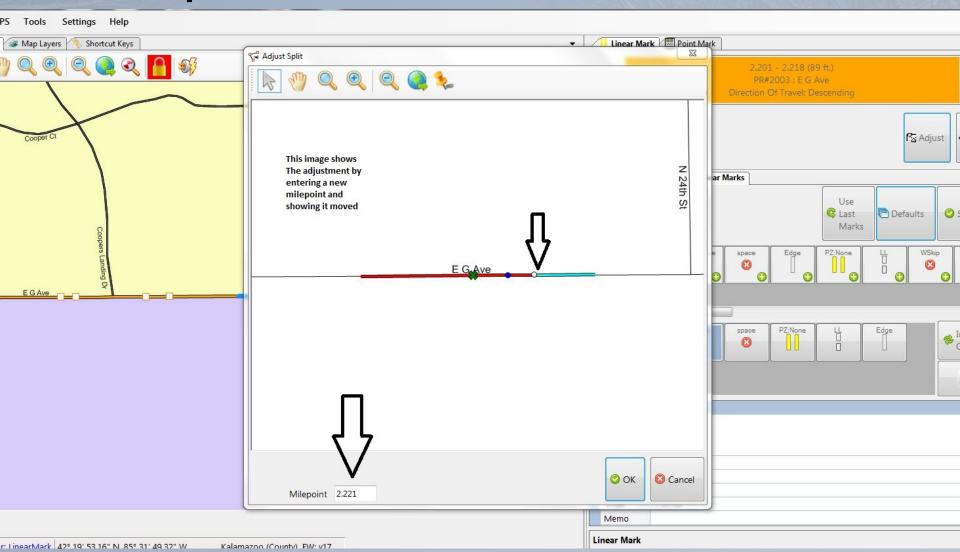
Split Form - Milepoint: shows milepoint of GPS, not segment



Split Form – Blue dot will give segment milepoint



Split Form – Entering a new milepoint



Roadsoft Tips/Suggestions

- Offsets should be carried forward
- Sliding to adjusting GPS points is difficult & frustrating (use milepoints -- .001=5 foot)
- LDC reference GPS mile point, not the segment milepoint

Never try to collect more than one module at a time.



Fruits of the labors...

Visual of all markings

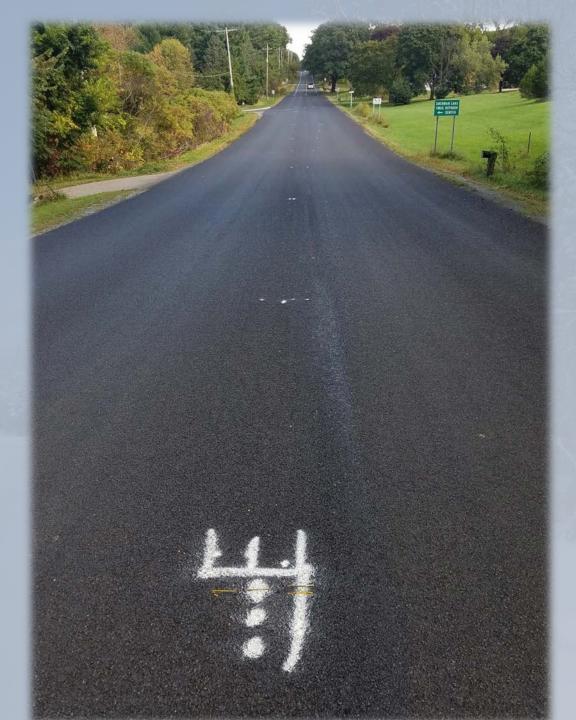


What needs to be replaced

Wakeshma Local

						Edgeline						
PR	Road Name	Between Roads	BMP	EMP	Length	Width	Left Edge	Right Edge	Solid Yellow	Yellow Dash (*.26)	Solid White	White Dach (*.26)
25906	E U V Ave	8 45th St - 8 47th St	0.006	-1.104	1.098 ml (5,797.4 ft)	0 in	0.0	0.0	11024.6	570.2 (142.6)	0.0	0.0 (0.0)
		S 47th St - W County Line Rd & O Dr S	1.104	- 1.601	0.497 ml (2,624.1 ft)	0 in	0.0	0.0	1895.5	2624.1 (656.0)	0.0	0.0 (0.0)
15202	E V Ave	8 36th St - 8 38th St	5.964	- 6.966	1.002 ml (5,290.5 ft)	0 in	0.0	0.0	3347.4	4556.6 (1,139.2)	0.0	0.0 (0.0)
		8 38th St - 8 39th St	6.966	-7.467	0.501 ml (2,645.3 ft)	0 in	0.0	0.0	2143.7	2645.3 (661.3)	0.0	0.0 (0.0)
		8 39th St - 8 42nd St	7.467	- 8.971	1.504 ml (7,941.2 ft)	0 in	0.0	0.0	14499.0	1383.4 (345.9)	0.0	0.0 (0.0)
25804	8 38th St	E W Ave - E V Ave	3.016	- 3.997	0.981 ml (5,179.7 ft)	0 in	0.0	0.0	4873.5	4245.1 (1,061.3)	0.0	0.0 (0.0)
25710	8 39th St	E V Ave - E U Ave	0.015	- 1.003	0.988 ml (5,216.6 ft)	0 in	0.0	0.0	4408.8	5016.0 (1,254.0)	0.0	0.0 (0.0)
25708	8 47th St	E W Ave - E U V Ave	1.012	-2.492	1.480 ml (7,814.3 ft)	0 in	0.0	0.0	1098.2	7814.3 (1,953.6)	0.0	0.0 (0.0)
3130117	TDrS	8 47th St - County Line	0.007	-0.497	0.490 ml (2,587.2 ft)	0 in	0.0	0.0	2191.2	2587.2 (646.8)	0.0	0.0 (0.0)
Total Lane Miles:					0.0	0.0	8.8	6.966 (1.489)	0.0	0.000 (0.000)		
Total Lane Feet:						0.0	0.0	45,481.8	31442.2 (7880.7)	0.0	0.0 (0.0)	
Total Length:			8.641 ml (45,098.3 ft)									

Repainting Markings



Our Pro:

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L.L.C.

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