Speed Concerns

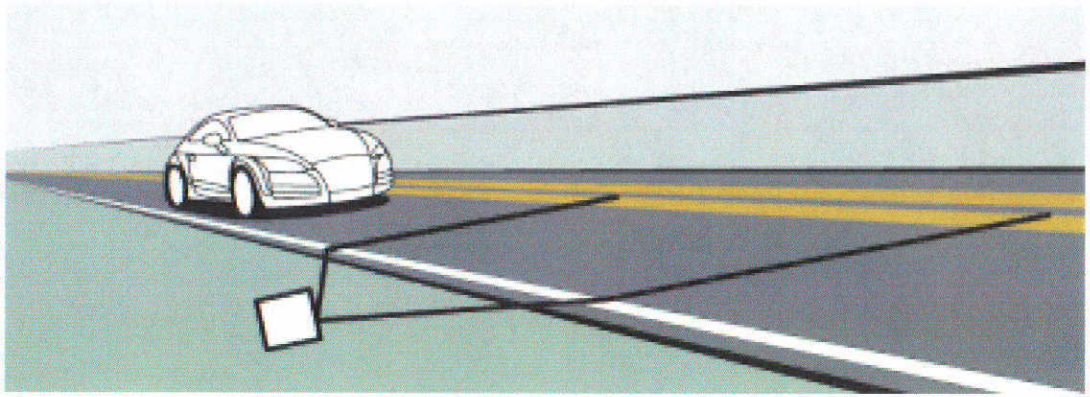
Speed Hump Discussion

85TH Percentile Speed

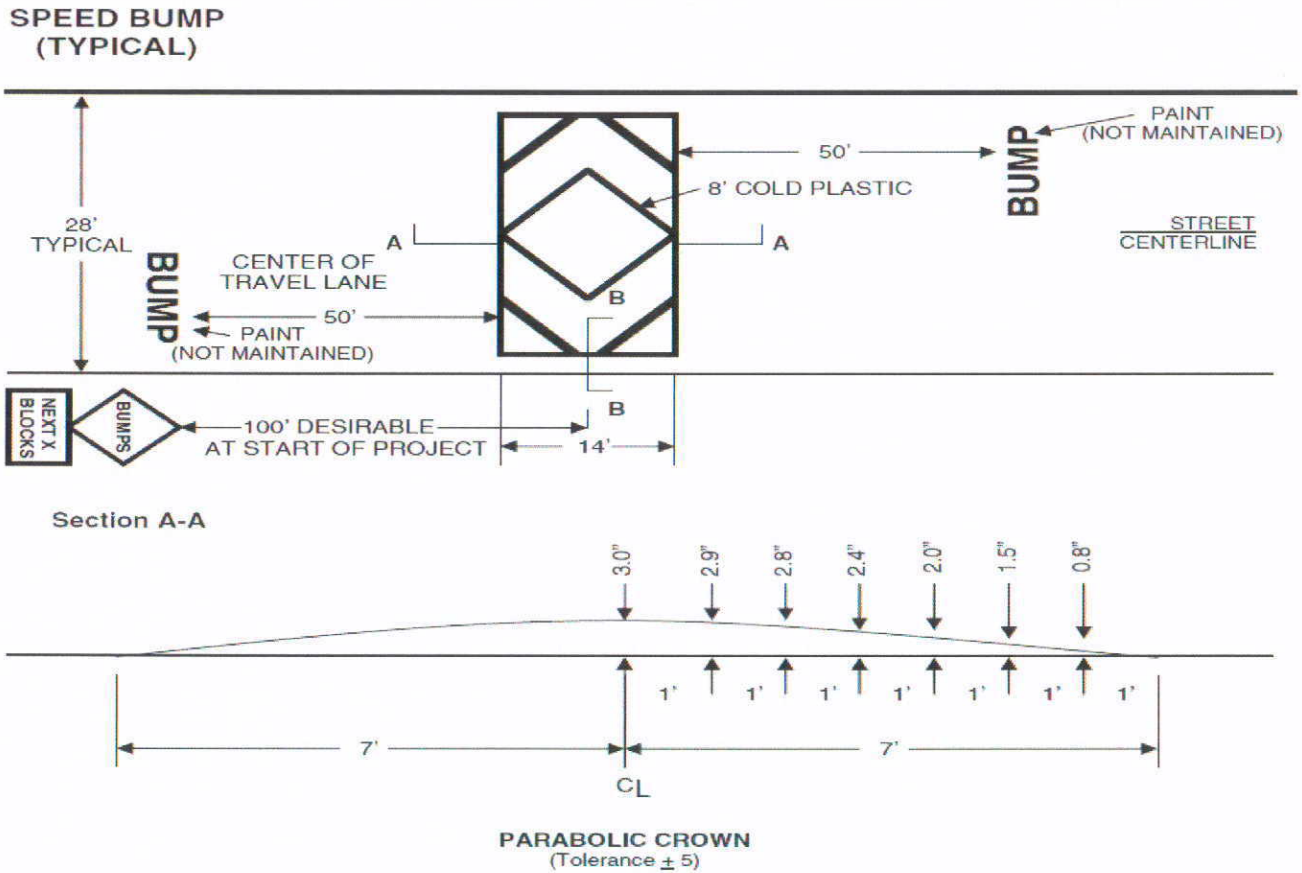
- Most engineering approaches to speed limit setting are based on the 85th percentile speed—the speed at which 85 percent of free-flowing traffic is traveling at or below.
- The 85th percentile speed method is also attractive because it reflects the collective judgment of the vast majority of drivers as to a reasonable speed for given traffic and roadway conditions.
- The MUTCD recommends that the speed limit be within 5 mph (8 km/h) of the 85th percentile speed of free-flowing traffic.

Determining 85th Percentile Speed

- Speed and Traffic Counts
- Typically 7 day count



Traffic Calming Methods – Speed Humps



Study Results

Table 5
Before-after speeds along calmed streets

Neighborhood	Street	Route	Sample size		Mean speed		85th % speed		% <25 mph	
			Before	After	Before	After	Before	After	Before	After
Bonneville Golf	Wasatch Dr	North	1,319	1,510	32.0	25.2	37.9	30.2	12.7	52.4
			1,185	1,238	32.0	29.4	37.7	35.4	12.0	25.3
		South	1,576	1,423	31.4	30.5	36.9	36.8	13.7	21.0
East Bench	Skyline Dr	East	589	489	29.0	23.2	35.6	29.0	28.8	66.0
			881	807	22.7	23.4	27.1	28.2	74.7	67.7
		West	828	820	27.0	27.6	32.3	32.2	38.3	32.1
			356	335	28.3	23.2	35.6	29.4	34.5	65.0
	Wasatch Dr	North	1,039	1,191	29.7	23.5	35.4	28.2	22.6	67.1
		South	1,019	941	28.7	23.4	34.1	28.9	26.6	65.2
Glendale	Glendale Dr	North	590	441	26.6	22.9	35.0	27.8	44.5	71.0
	Montgomery St	South	484	109	25.1	23.0	32.1	29.3	52.1	65.8
Harvard-Yale	1500 East	North	2,363	2,097	30.6	22.9	36.3	27.7	17.8	71.2
		South	1,997	1,179	25.2	22.9	29.3	27.0	52.9	74.5
St. Mary's	Kennedy Dr	East	1,014	981	28.3	29.6	34.5	35.7	32.2	24.0
		West	1,213	1,141	30.0	31.8	36.6	38.7	23.9	17.0
	Vista View Dr	North	607	512	24.1	22.8	28.8	27.3	61.9	73.2
Upper Avenues	Northmont Dr	East	254	296	27.6	21.6	33.7	27.2	36.2	76.5
		West	206	218	28.4	26.5	35.3	34.5	33.0	45.2

NOTE: Speeds are in mph. Divide mph by 0.6214 to obtain km/h.

Locations

- They are primarily posted on Collector streets.
- It is rare to put speed humps on arterial streets.
- Spacing 400 – 600 ft

CONNECTION STREETS

CITY OF TAYLORSVILLE UTAH

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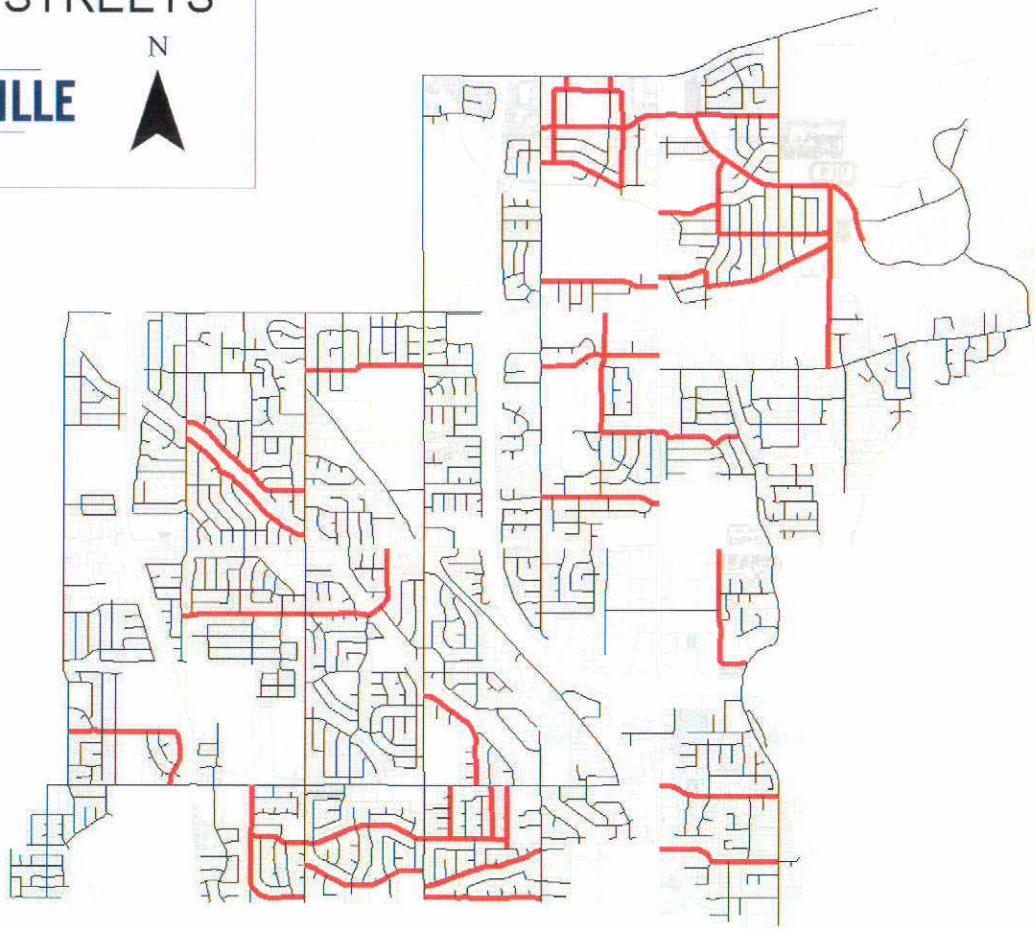

Estimated Costs

- Overall Length 103,400 lf
- 400-600 ft Spacing (500 ft) ~ 206.7
- Bumps Needed 207
- Asphalt Costs $1,156,302
- Concrete Costs $1,651,860
- Additional Cost for Signage