Manual for Streets

The Prince's Foundation for the Built Environment Congress for New Urbanism Transportation Summit

> Andrew Cameron 12 November 2007





Department of the Environment Department of Transport

RESIDENTIAL ROADS AND FOOTPATHS

Layout considerations

Design Bulletin 32 Second Edition



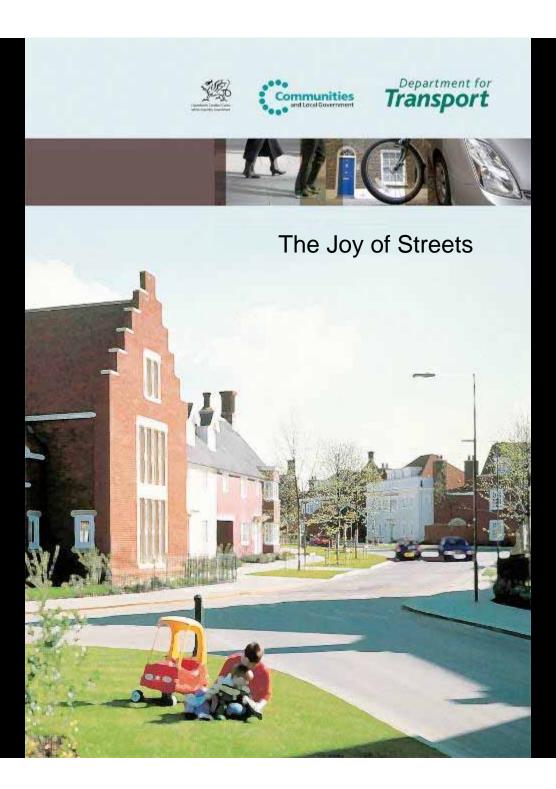






Manual for Streets







1. The beginning

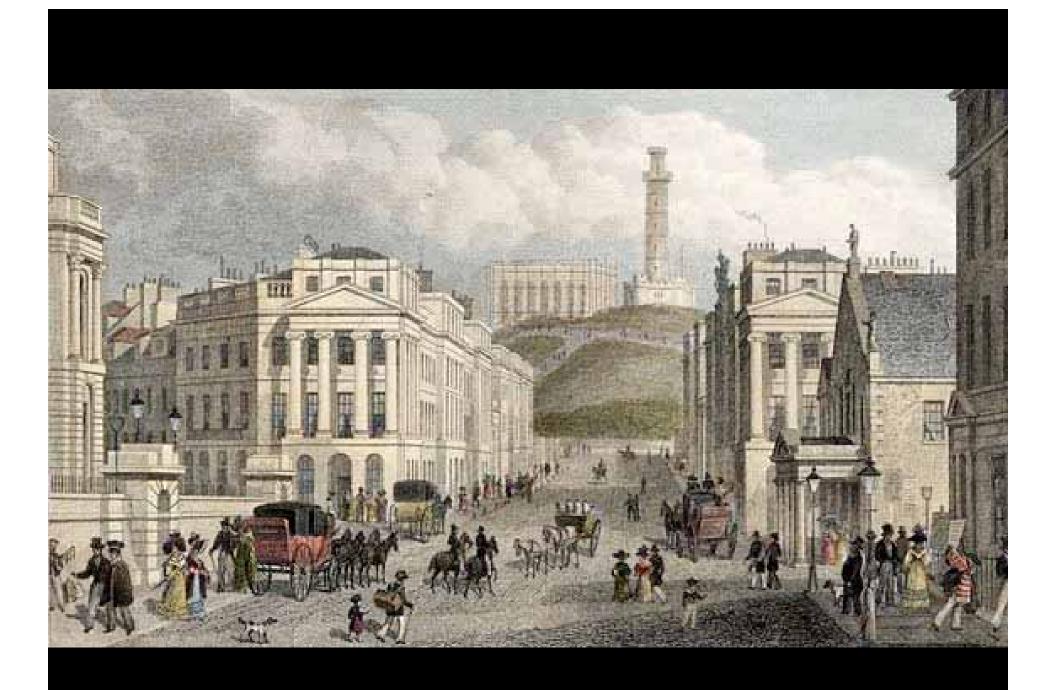
(the evolution of highways design)

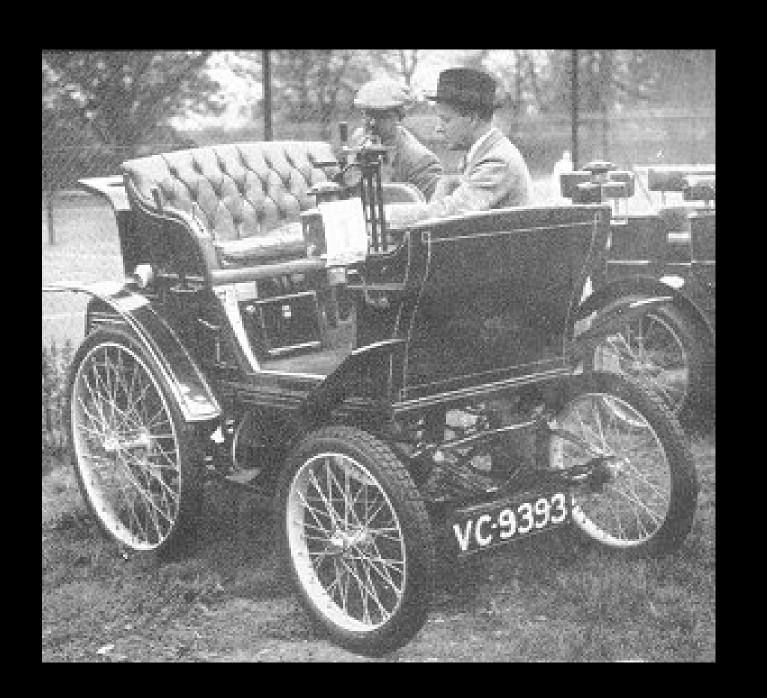
before there were rules – drivers had to respect others on the street



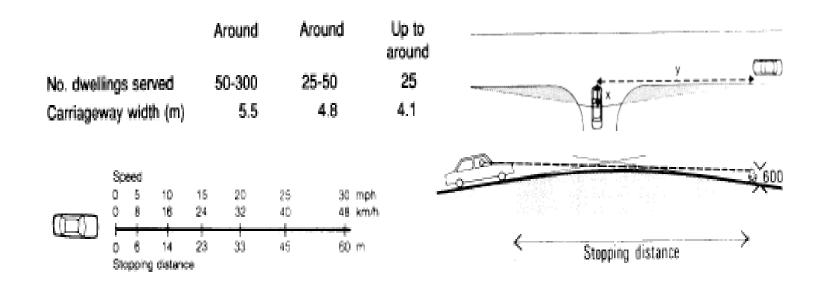
Fun Mansion.com







standardised geometric criteria...



... lead to standardised layouts







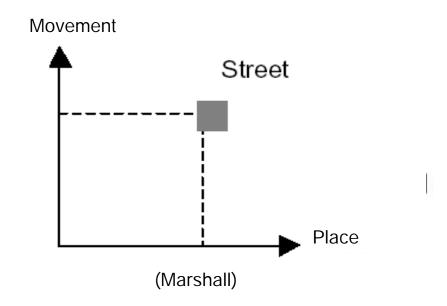
Street functions

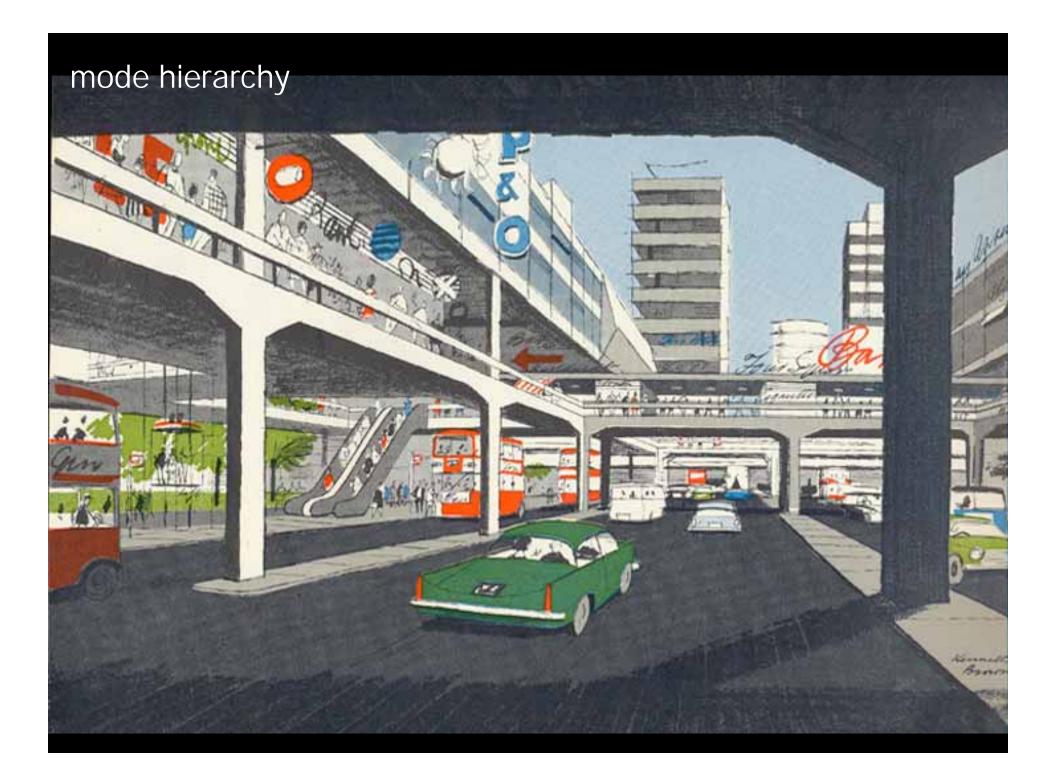
What is a street?

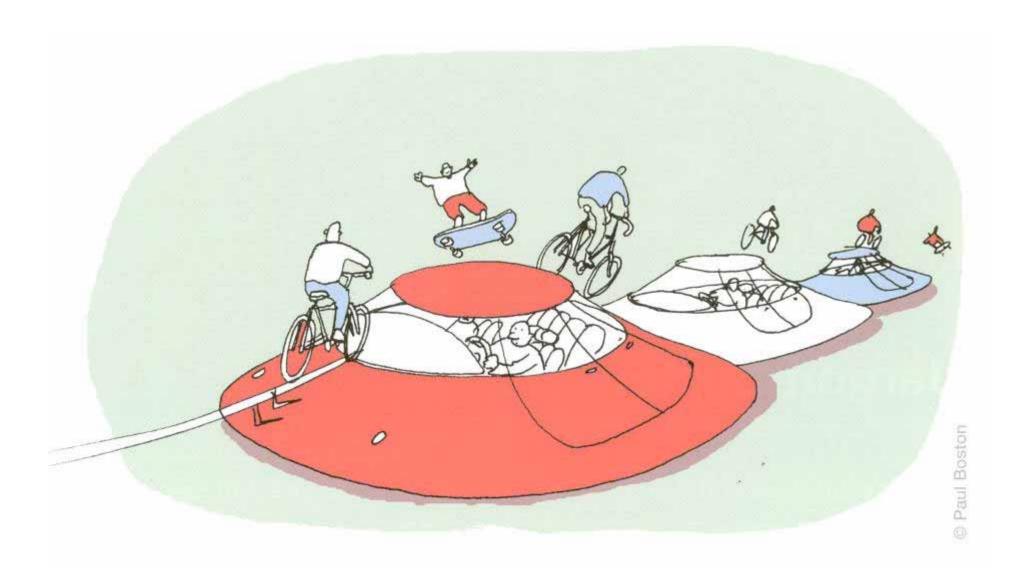
 a highway that by its nature has important functions beyond just the movement of people and traffic.

Functions of streets

- place
- movement
- access
- parking
- drainage and utilities







2. Let's meet up

(networks and junctions)

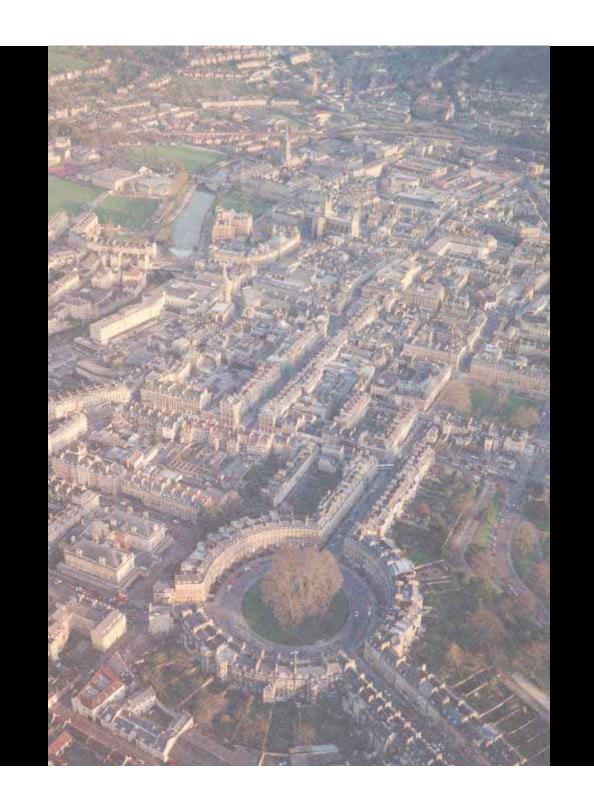


suburban sprawl

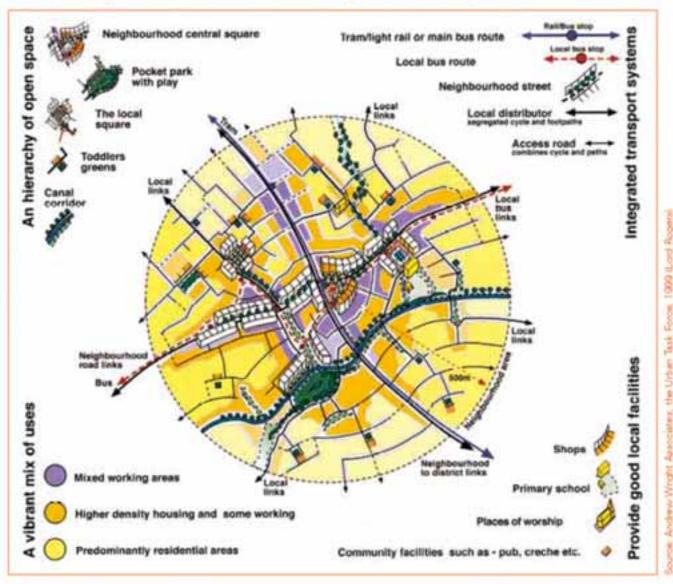




traditional neighbourhood



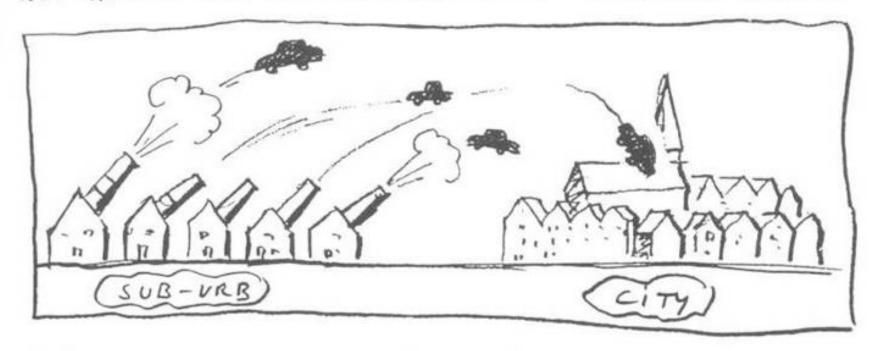
The key components of a mixed use and integrated urban neighbourhood



people living in cul-de-sac environments weigh on average 6lb more than those living in connected neighbourhoods

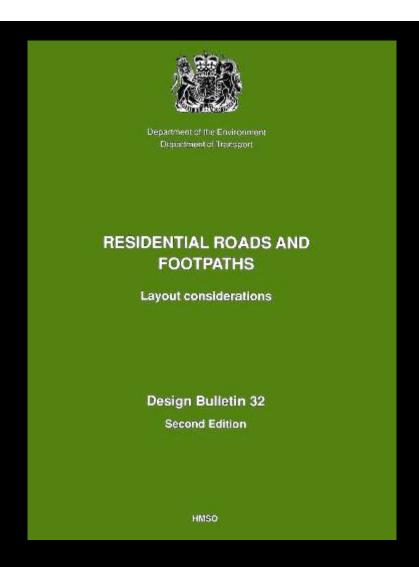
Richard Jackson MD

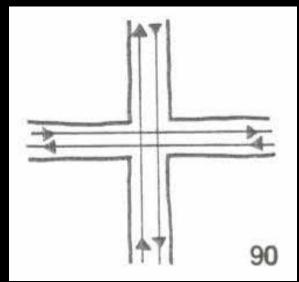
NOT THE CAR BUT THE SUBURBAN HOME IS THE DEADLY WEAPON



DAILY SUBURBAN MORTARFIRE AGAINST URBAN CENTERS

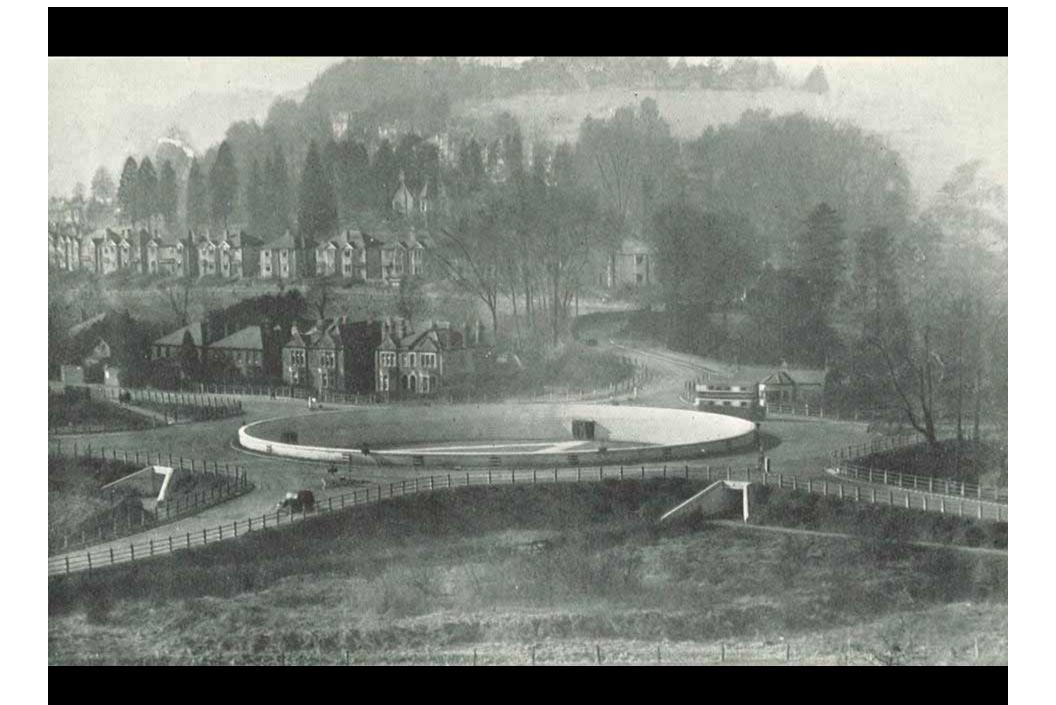
Leon Krier





3.38 Cross roads: Cross roads are generally regarded as the most dangerous form of junction, largely because they imply cross traffic movement (figure 90). They should therefore normally be avoided.











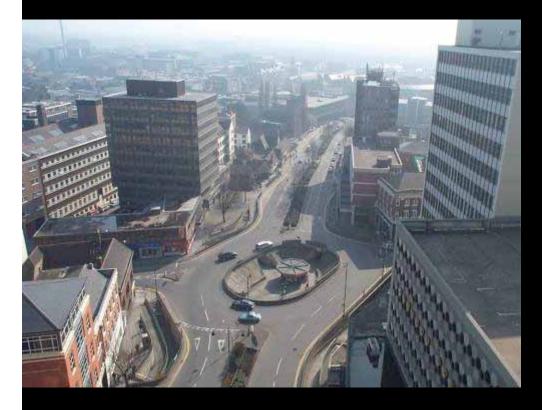


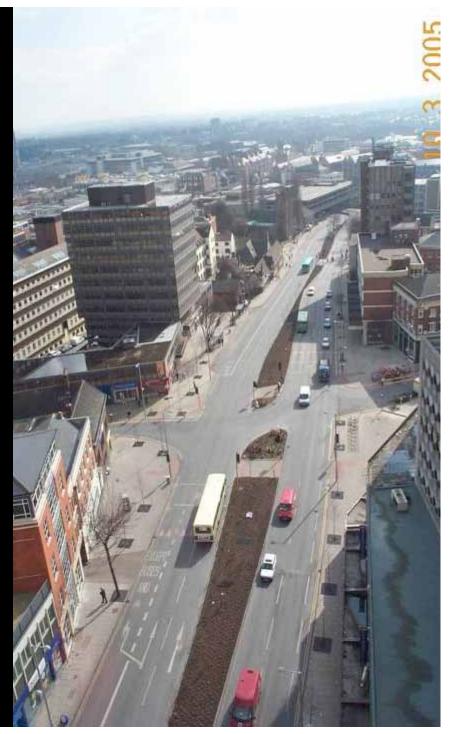






urban streets – time to rethink?











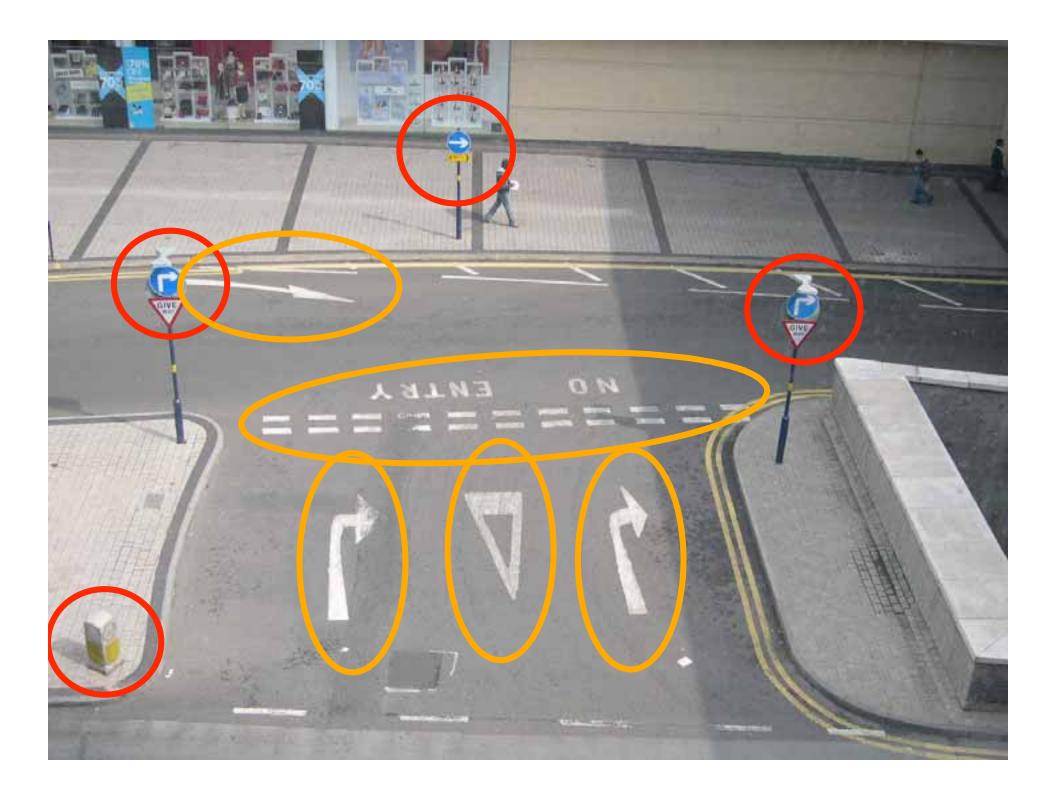




3. All the signs are there

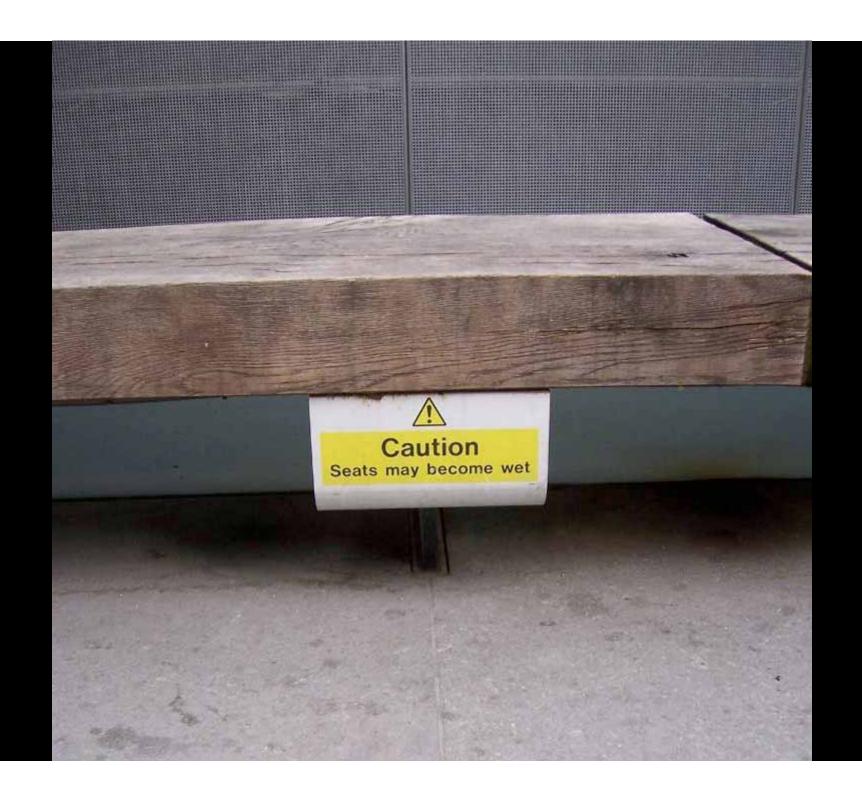
(signage)

















Judgments - Gorringe (Appellant) v. Calderdale Metropolitan Borough Council (Respondents) (2004)

LORD STEYN

...the courts must not contribute to the creation of a society bent on litigation, which is premised on the illusion that for every misfortune there is a remedy.

LORD HOFFMANN

People must accept responsibility for their own actions and take the necessary care to avoid injuring themselves or others.

The users of the highway were expected to look after themselves.

Drivers of vehicles must take the highway network as they find it.



Ministry of Transport.

THE HIGHWAY CODE

Issued by the Minister of Transport with the authority of Parliament in pursuance of Section 45 of the Road Traffic Act, 1930.

LONDON:

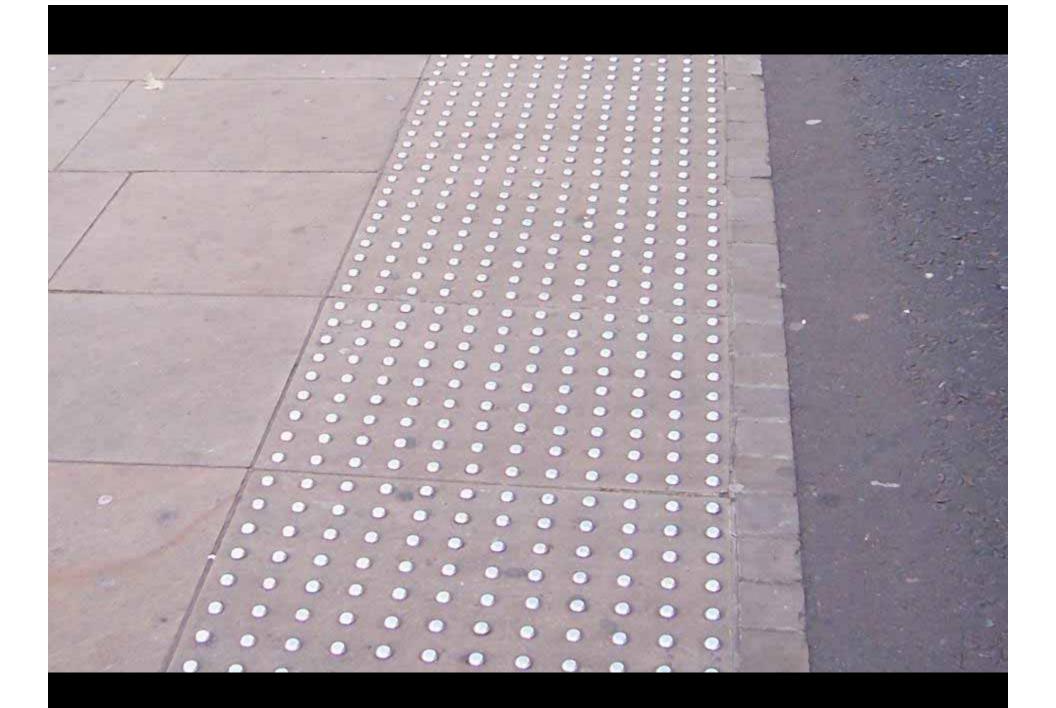
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1931.

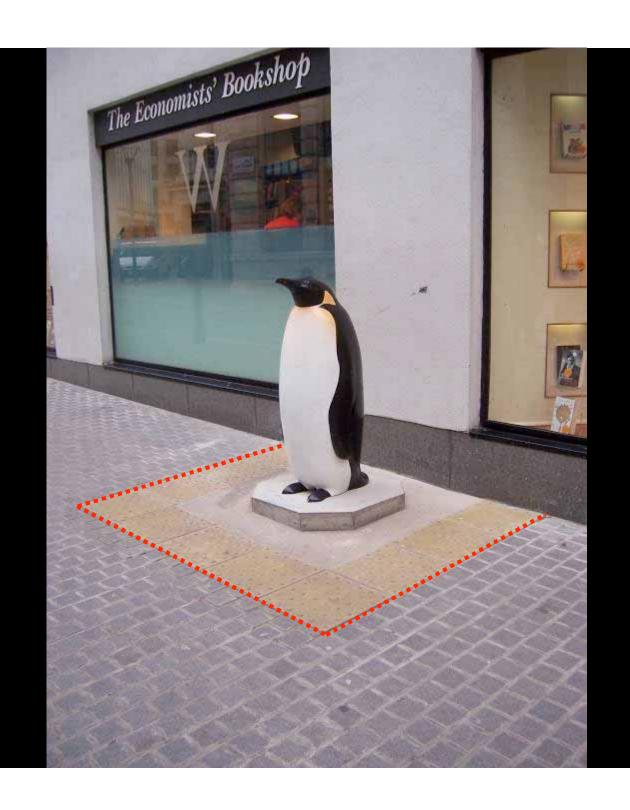
Price 1d. net.

4. Feelings

(tactile paving)











Are the blind and partially sighted really getting a fair deal?

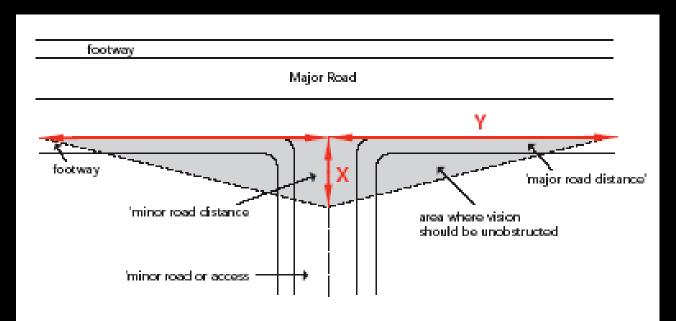


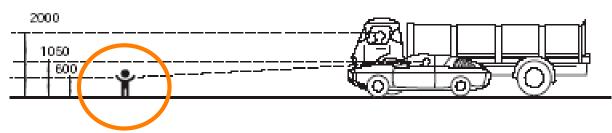


The Tokyo Ubiquitous Technology Project, University of Tokyo

5. Seeing each other

(visibility)



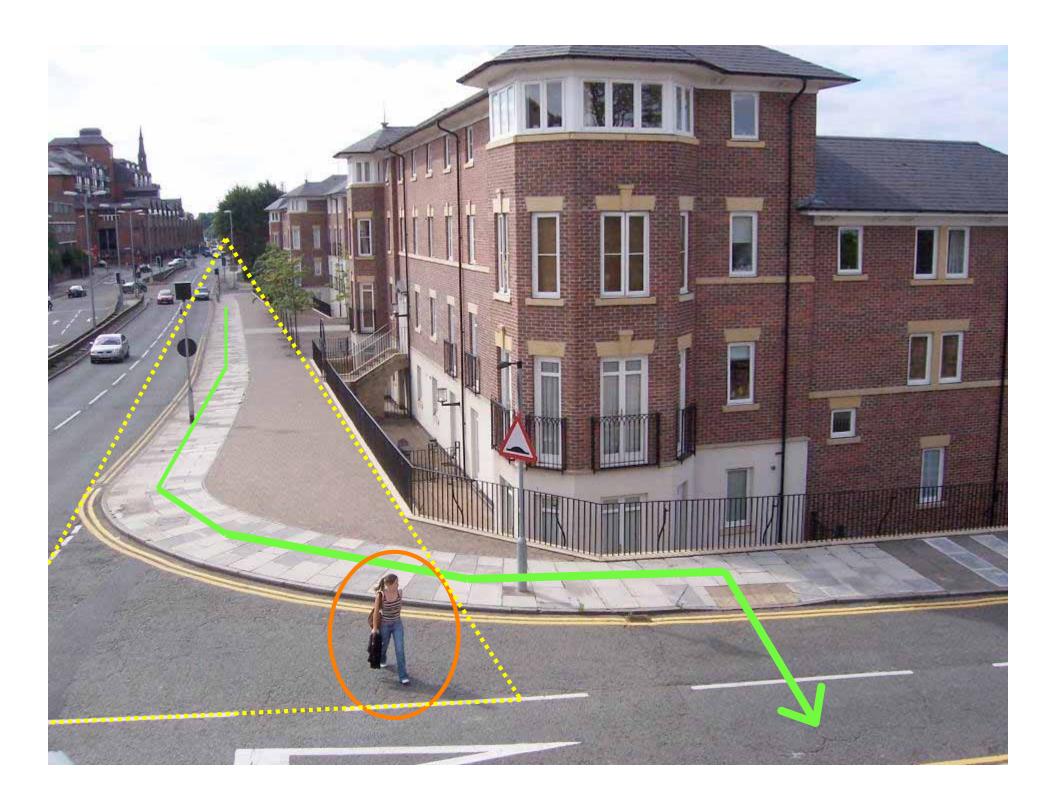


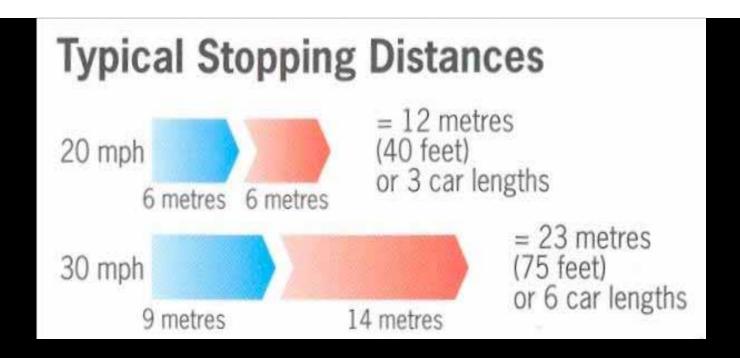
Note:

Clear horizontal sightlines should take account of both what the driver can see and what pedestrians (especially children) can see. Sightlines need to be determined from an eye height of 1.05m - 2m, to an object height of 0.6m - 2m









Sight Distance Requirements at 50kph (30mph)

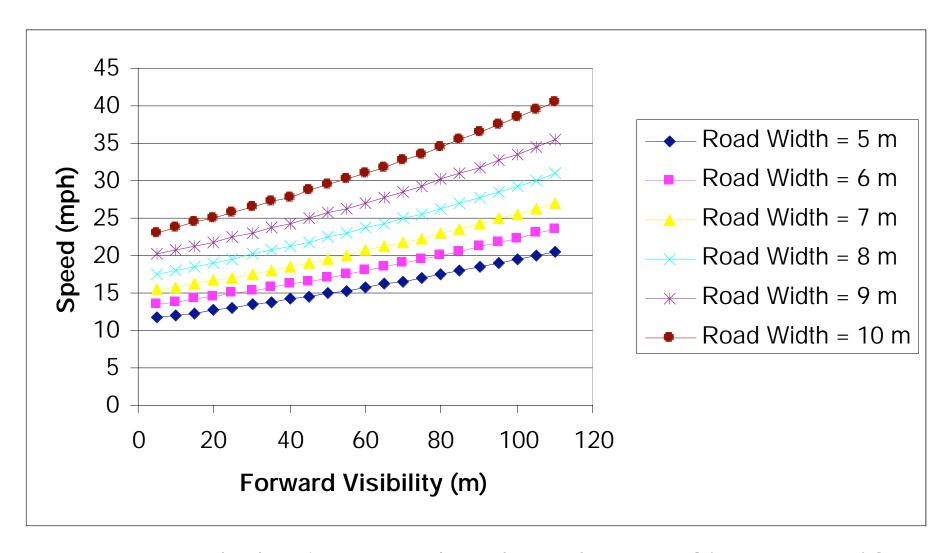
•USA = 63m

•Netherlands = 40m

•Australia = 40m

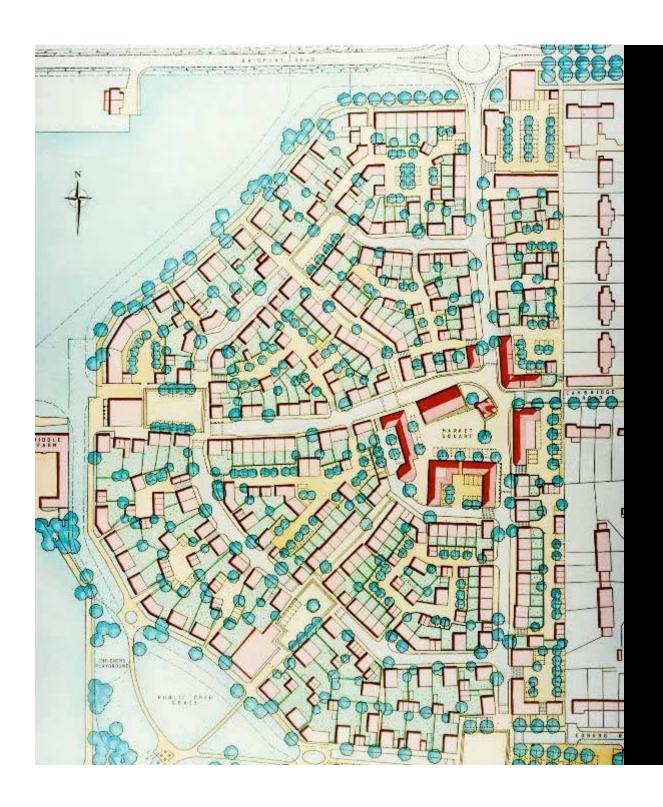
•UK visibility splay = 70m (90m)

(Evidence base from DB32?)



TRL Research: the site survey data shows that **speed increases with** road width and visibility for both links and junctions

Design Speed	Miles per hour	30	20	15	10	5
	Kilometres per hour	48	32	24	16	8
SSD (metres)	Zero gradient	40	22	15	9	4



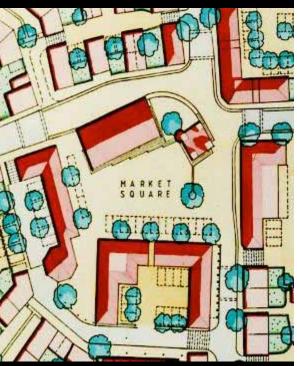
Poundbury Phase 1

- Permeable layout
- Network of spaces
- Vehicles have access, but focus is on the pedestrian
- Primacy is given to the creation of a sense of place



The Market Square





Mixed use









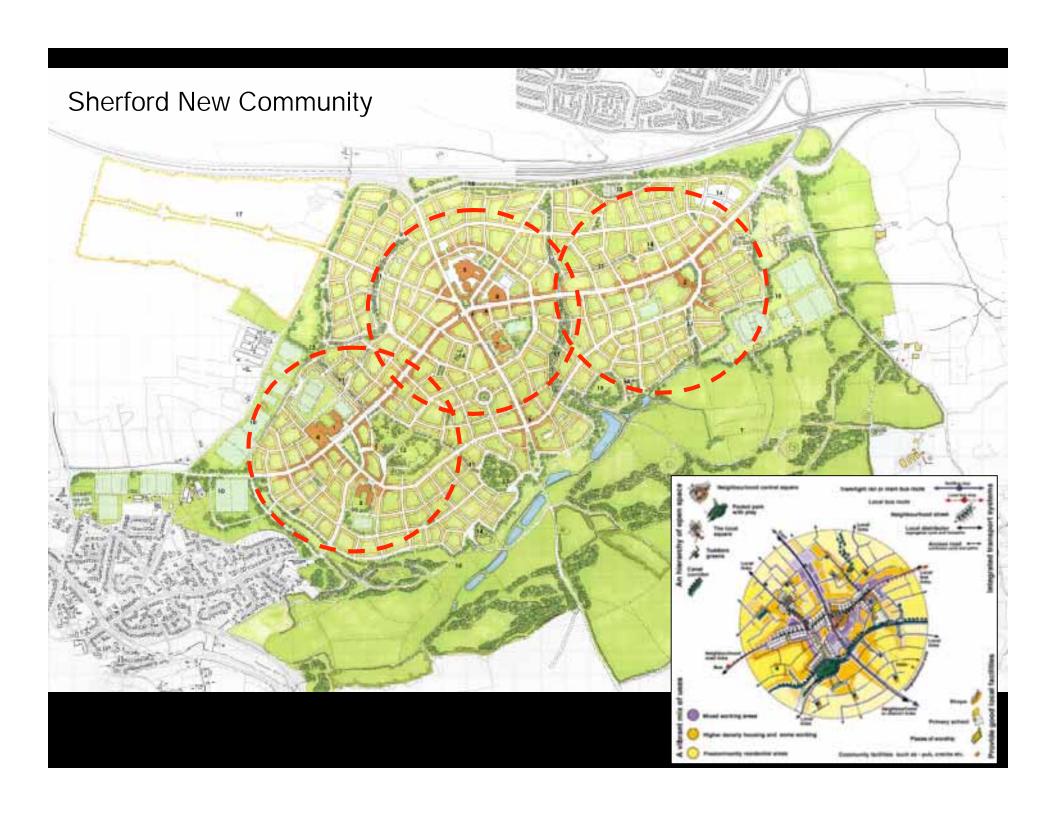






6. Take me higher!

(the high street)





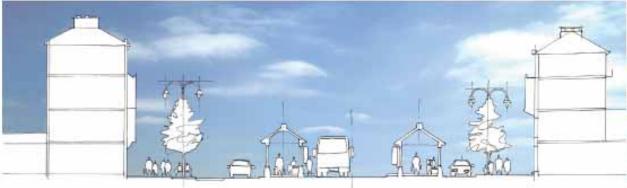


road safety audit











martborough town ball

detailed area c: 'the high street'

main street design & character setting

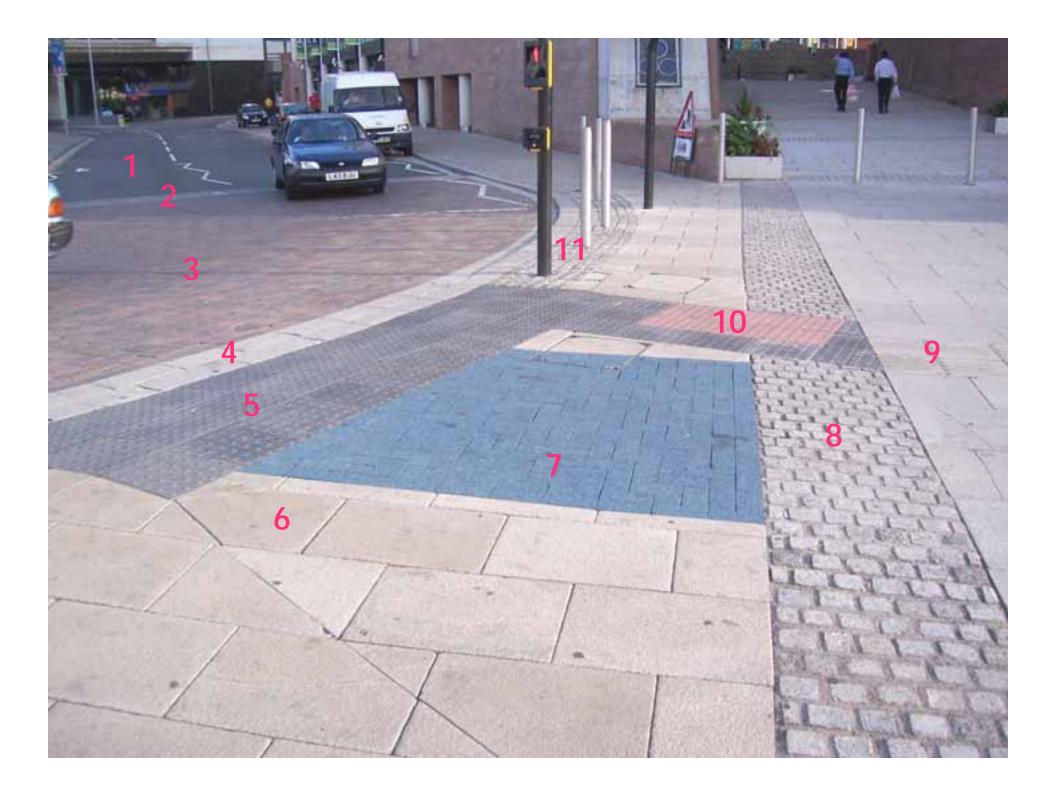
sheet 10



7. Long term relationship

(maintenance)





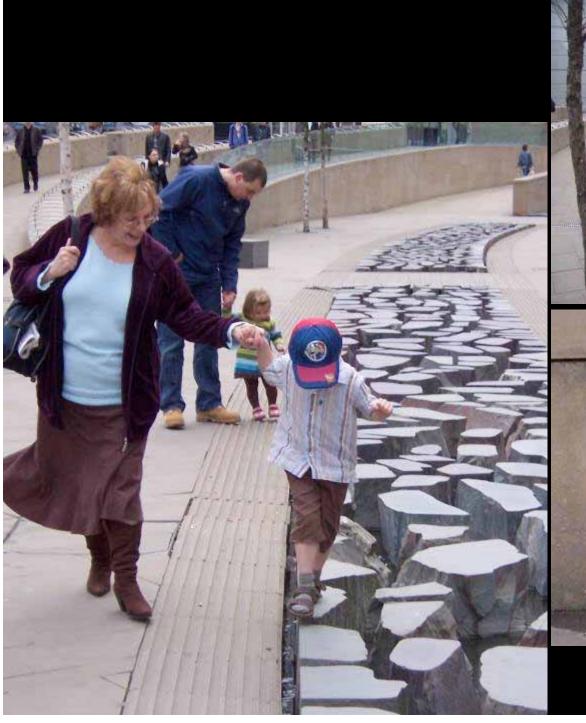








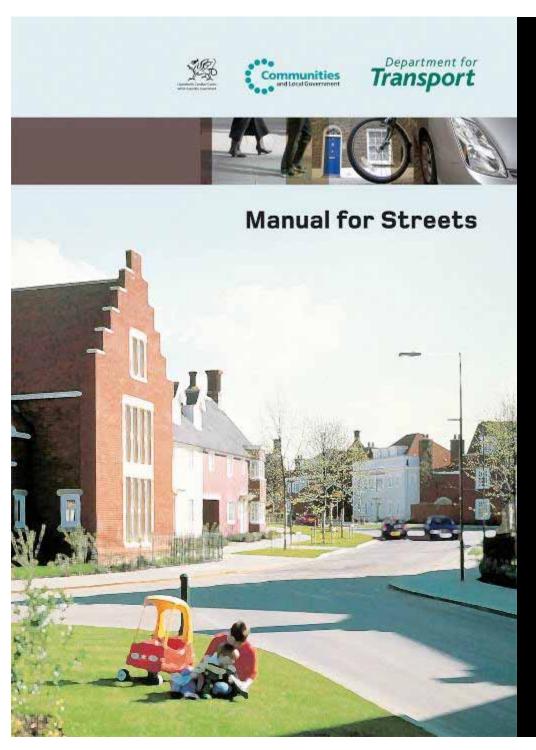






In The Interest Of Safety
Please Refrain From Climbing
On The Water Feature.

Do Not Drink The Water



go and have a good relationship with good streets

experience the joy of streets



