

Contents

1	Introduction _____	7
2	Human Measure _____	9
2.1	Basic Human Measurements	9
2.2	Quantifying Need	12
3	Topography _____	17
3.1	Grading	17
3.2	Drainage	20
4	Circulation _____	25
4.1	Walk- and Bikeways	25
4.2	Streets	33
4.3	Parking Lots for Bicycles and Motor Vehicles	44
4.4	Ramps and Stairs	53
5	Vertical Elements _____	59
5.1	Boundary Enclosures	59
5.2	Handrails, Railings and Parapets	66
6	Street Furniture _____	69
6.1	Waste Container Areas	69
6.2	Seating	72
6.3	Lighting	77
7	Water _____	81
7.1	Water Features and Basins	81
7.2	Stormwater Infiltration	84
7.3	Swimming Pools and Bathing Ponds	86
7.4	Water-Treading Pools	95

8	Plants	97
8.1	Trees	97
8.2	Hedges	111
8.3	Vegetated Roofs	114
8.4	Vertical Planting	118
9	Recreational Elements	129
9.1	Play Areas and Playgrounds	129
9.2	Sports Facilities	133
9.3	Campgrounds	147
9.4	Outdoor Theaters and Tiered Seating	150
	Selected Reference Books	155
	Index	161