



GRADUATION THESIS

CHAPTER 3: SITE ANALYSIS

CONTENT OF LECTURE

1. CHAPTER 3 COMPONENTS

2. SITE ANALYSIS

CHAPTER 3 COMPONENTS

3.1 INTRODUCTION

3.2 SITE EVALUATION

3.3 SITE ANALYSIS

3.4 CONCLUSION

3.1 INTRODUCTION

1. Introduce this chapter by mentioning what the content of this chapter is
2. Introduce the 3 selected sites
- 3 Formulate and explain criteria's for site evaluation:

Location: mention the desired location for your project, e.g. preferred to be located in city center, or in rural areas

Site area: Identify what the needed area is for your project

Parcel Shape: explain what the recommend plot shape is for your project

Site Topography: explain the preferred topography for your project

Accessibility: explain what kind of accessibility is preferred for your project

3.1 INTRODUCTION

Socio-economic: explain what kind of household is preferred to be near your project

Noise: what are the requirements for Noise

View: what kind of view is needed or is view needed at all

Sunlight exposure: what are the requirements for sunlight exposure

Man made features: does your project need to be close to a specific man-made feature/
projects

3.2 SITE EVALUATION

1. In this component the student must evaluate the 3 sites based on the requirements that are formulated from the criteria's.
2. The student must create a table based on weight factors
3. To conclude the student must explain which of the 3 is the most suitable site.

3.2 SITE EVALUATION

START WITH A FIGURE WHERE ALL THE PROPOSED SITES ARE IDENTIFIED

Proposed Sites

- Bahrka road
- Koya road
- Karkuk road



3.2 SITE EVALUATION

IDENTIFY THE PROPERTIES OF EACH SITE BASED ON THE CRITERIA

site 1



▪ Site Location	Bahtka
▪ Site area	135070 M ²
▪ Parcel shape	Irregular polygon
▪ Site Orientation	Exposed from all sides
▪ Site Topography	Sloped
▪ Accessibility	Accessible
▪ Sensory	Positive
▪ Manmade features	Green belt & 150M
▪ Socio-economic	Low-income families
▪ Land value	Medium

site 2



▪ Site Location	Kasnazan
▪ Site area	151230 M ²
▪ Parcel shape	Irregular hexagon
▪ Site Orientation	Exposed from all sides
▪ Site Topography	Flat
▪ Accessibility	Accessible(crowd)
▪ Sensory	Positive
▪ Manmade features	120M & Majidi mall
▪ Socio-economic	High
▪ Land value	High

site 3



▪ Site Location	Qushtana
▪ Site area	70135 M ²
▪ Parcel shape	Irregular hexagon
▪ Site Orientation	Exposed from all sides
▪ Site Topography	Flat
▪ Accessibility	Accessible
▪ Sensory	Positive
▪ Manmade features	White House & Kirkuk Road
▪ Socio-economic	Martyr families
▪ Land value	Low

3.2 SITE EVALUATION

CREATE TABLE WITH WEIGHTING PERCENTAGE

CRITERIA	Weighting Percentage	SITE 1	SITE 2	SITE 3
Location	15	14	10	15
Site area	10	9	6	8
Parcel Shape	5	4	5	2
Site topography	5	3	5	1
Accessibility	20	16	4	20
Socio-economic	5	1	5	3
Noise	5	1	5	2
View	10	5	4	7
Sunlight Exposure	20	14	3	20
Man-made features	5	4	2	3
Total	100	71	49	81

3.3 SITE ANALYSIS

ANALYSIS | LOCATION

1| MORPHOLOGICAL ANALYSIS

2| BUILDING ANALYSIS

3| CIRCULATION

4| MATERIAL

5| ENVIRONMENT

6| HISTORICAL SURVEY & FUTURE PLANNING

7| BUILDING REGULATIONS & INTERNATIONAL STANDARDS

MORPHOLOGICAL ANALYSIS



1.1 BUILDING MASS



1.2 WATER

MORPHOLOGICAL ANALYSIS



1.3 PUBLIC AREAS



1.4 GREEN

MORPHOLOGICAL ANALYSIS

JUNE 21*

SEPTEMBER 21*

DECEMBER 21*

08:00



08:00



08:00



10:00



10:00



10:00



12:00



12:00



12:00



14:00



14:00



14:00



16:00



16:00



16:00

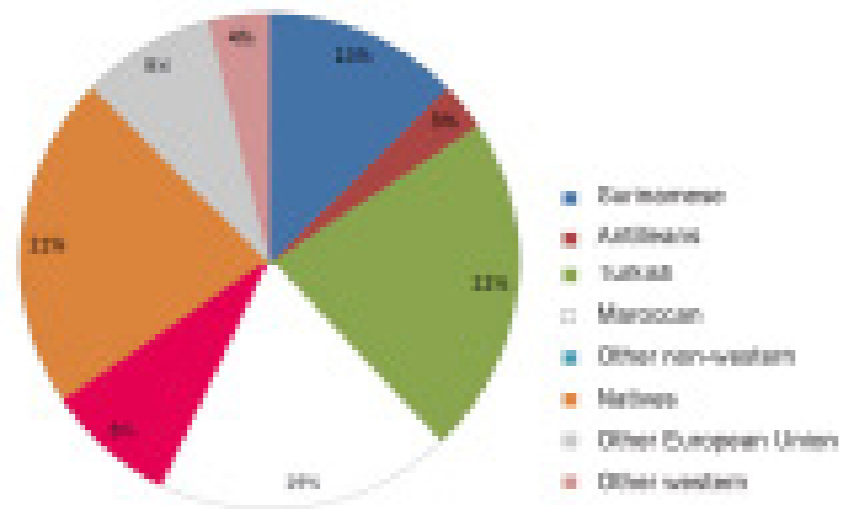


1.5 SHADOWS

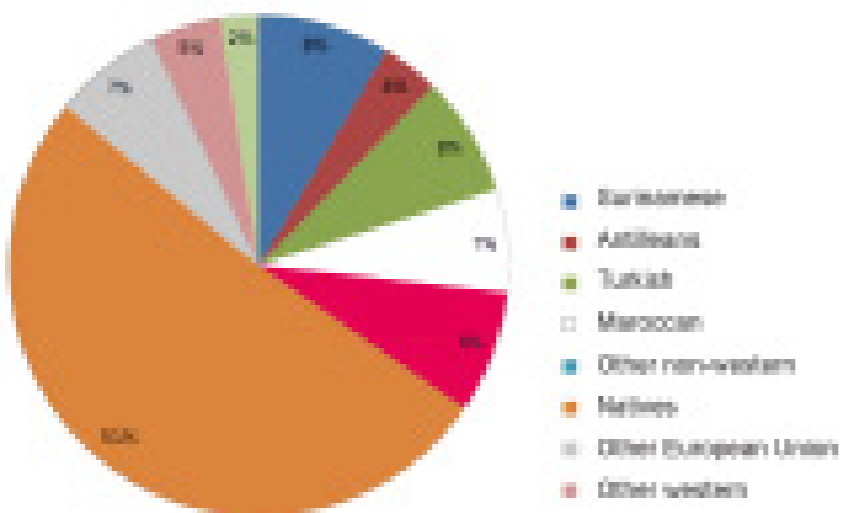
MORPHOLOGICAL ANALYSIS

Different Cultures

Bospolder Tussendijken

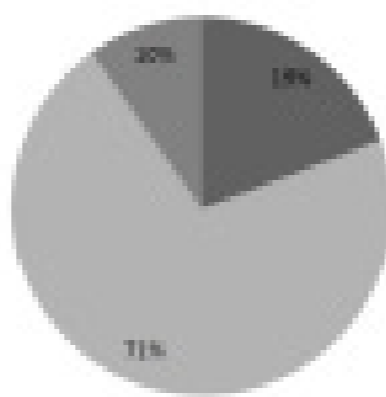


Rotterdam

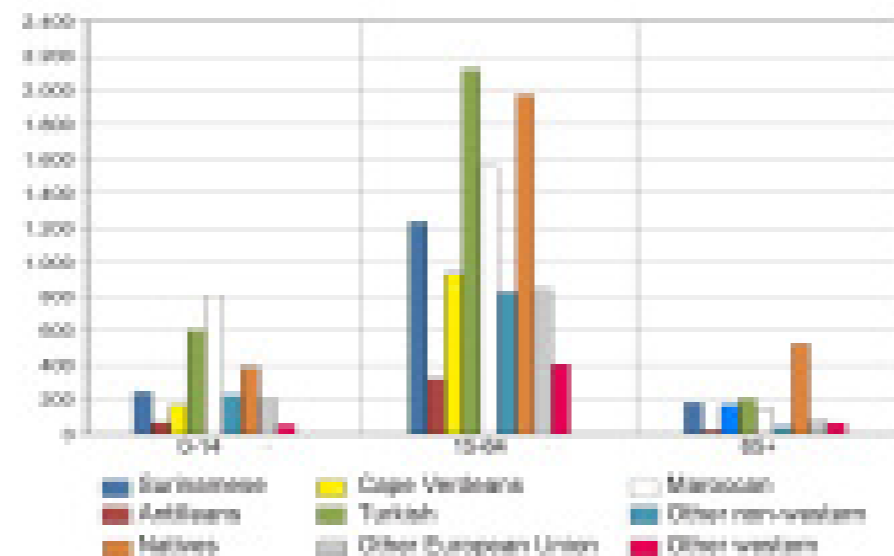
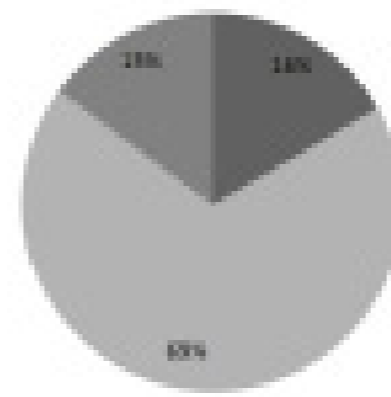


Age Groups

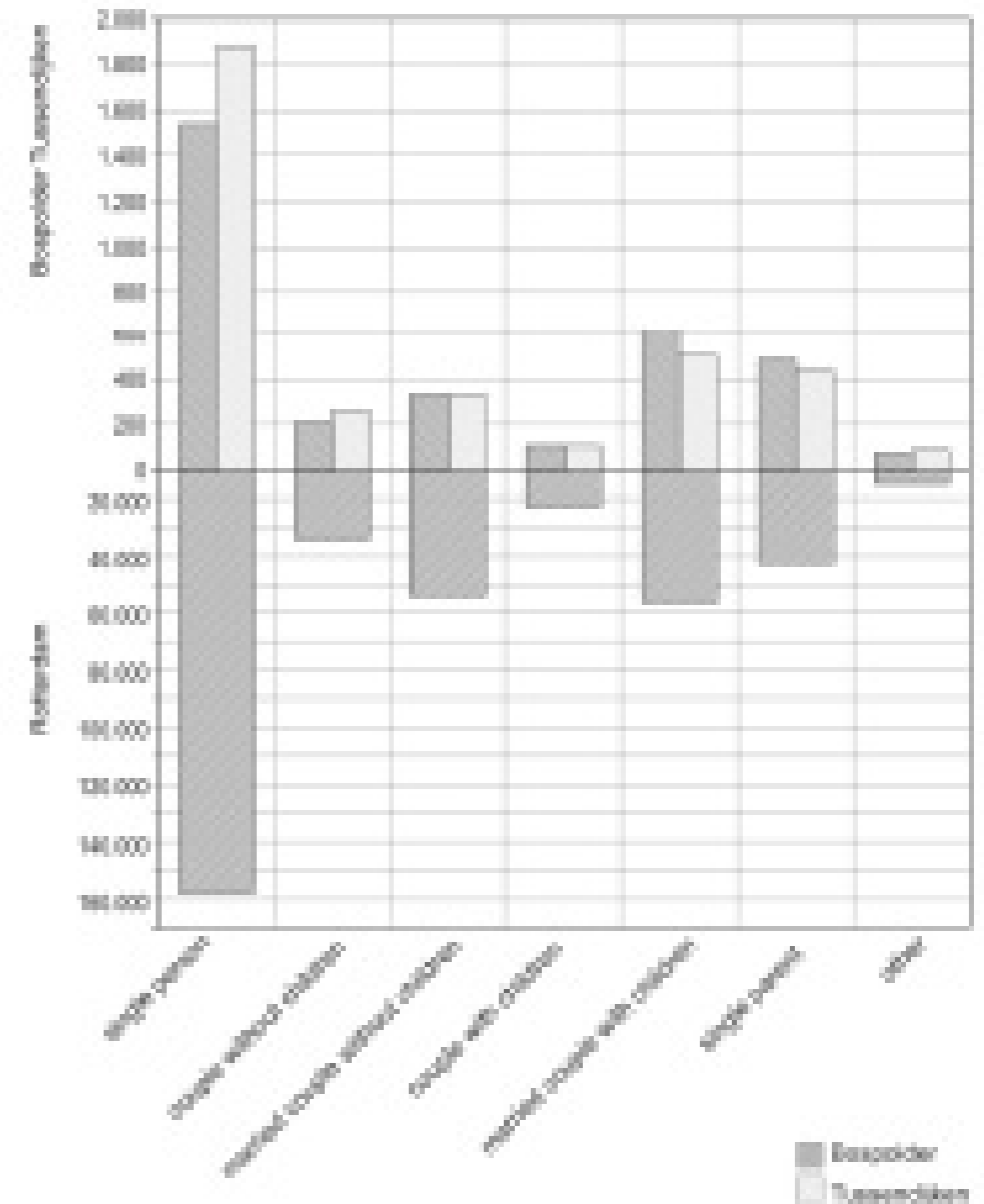
Bospolder Tussendijken



Rotterdam



Different types of households



1.6 SOCIO - ECONOMIC:

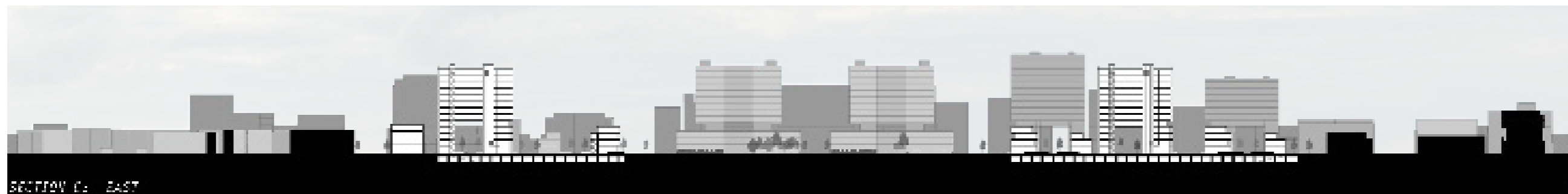
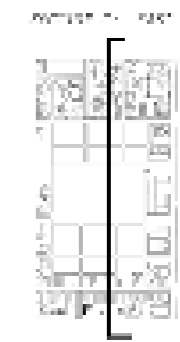
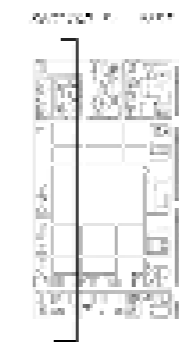
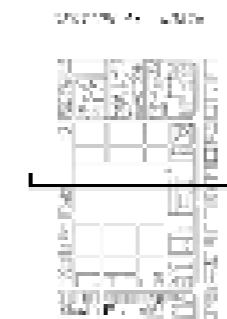
a. Different cultures

b. Age

c. Household types

d. Household income

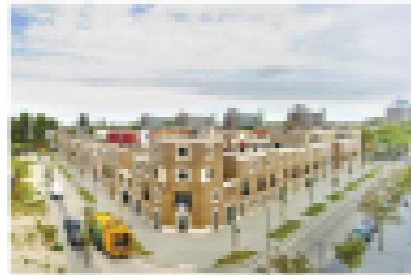
MORPHOLOGICAL ANALYSIS



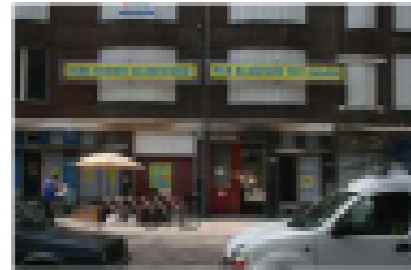
1.7 SECTION OF THE AREA

BUILDING ANALYSIS

2.1 SPECIAL PROJECTS



1. Le medi



2. Klushuizen



3. Building from J.J.P. Oud



4. CPO-housing



BUILDING ANALYSIS

2.2 BUILDING TYPOLOGY & 2.3 BUILDING HEIGHTS

Terraced houses and shops

Schiedamsseweg
2 elevations
8 dwellings
6 shop
built: 1945-1960

architect: R.D. van Andel



Tenement house

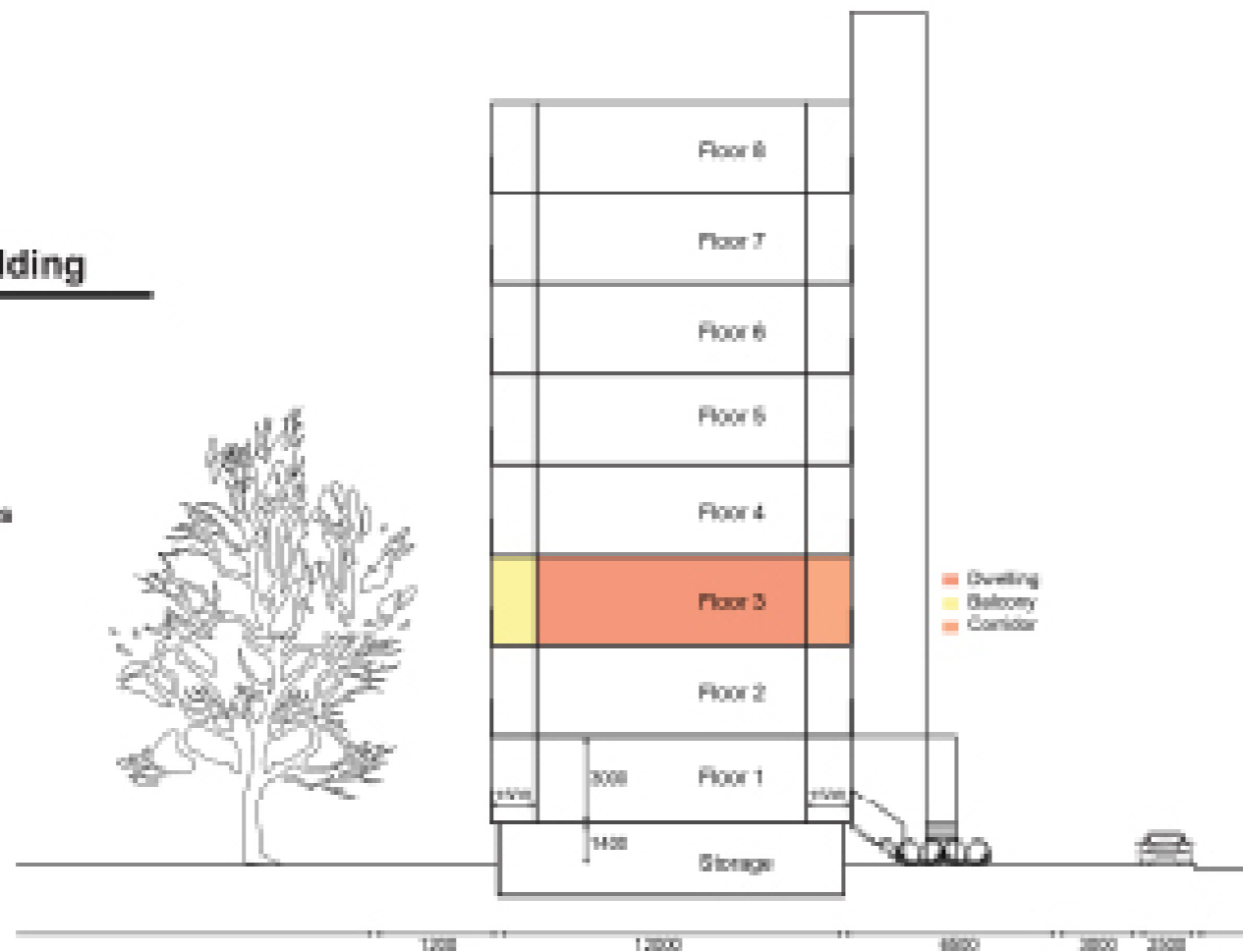
Gijsingstraat
4 elevations
8 dwelling at each entrance
64 dwellings
built: 1945-1960



Apartment building

Grote Visserijplein
8 elevations
72 dwellings
built: 1945-1960

architect: Bureau de Nijs



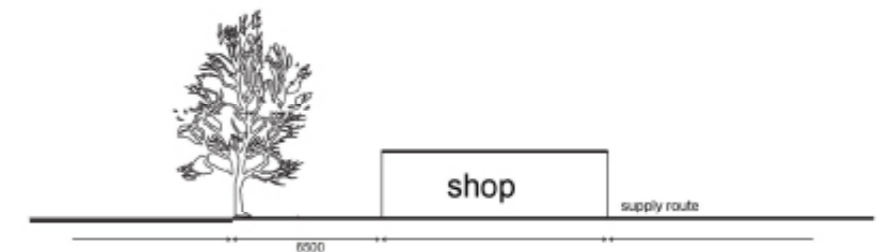
Tenement house+shop

Schiedamsseweg
4 elevations
6 dwelling at each entrance
48 houses
built: 1945-1960



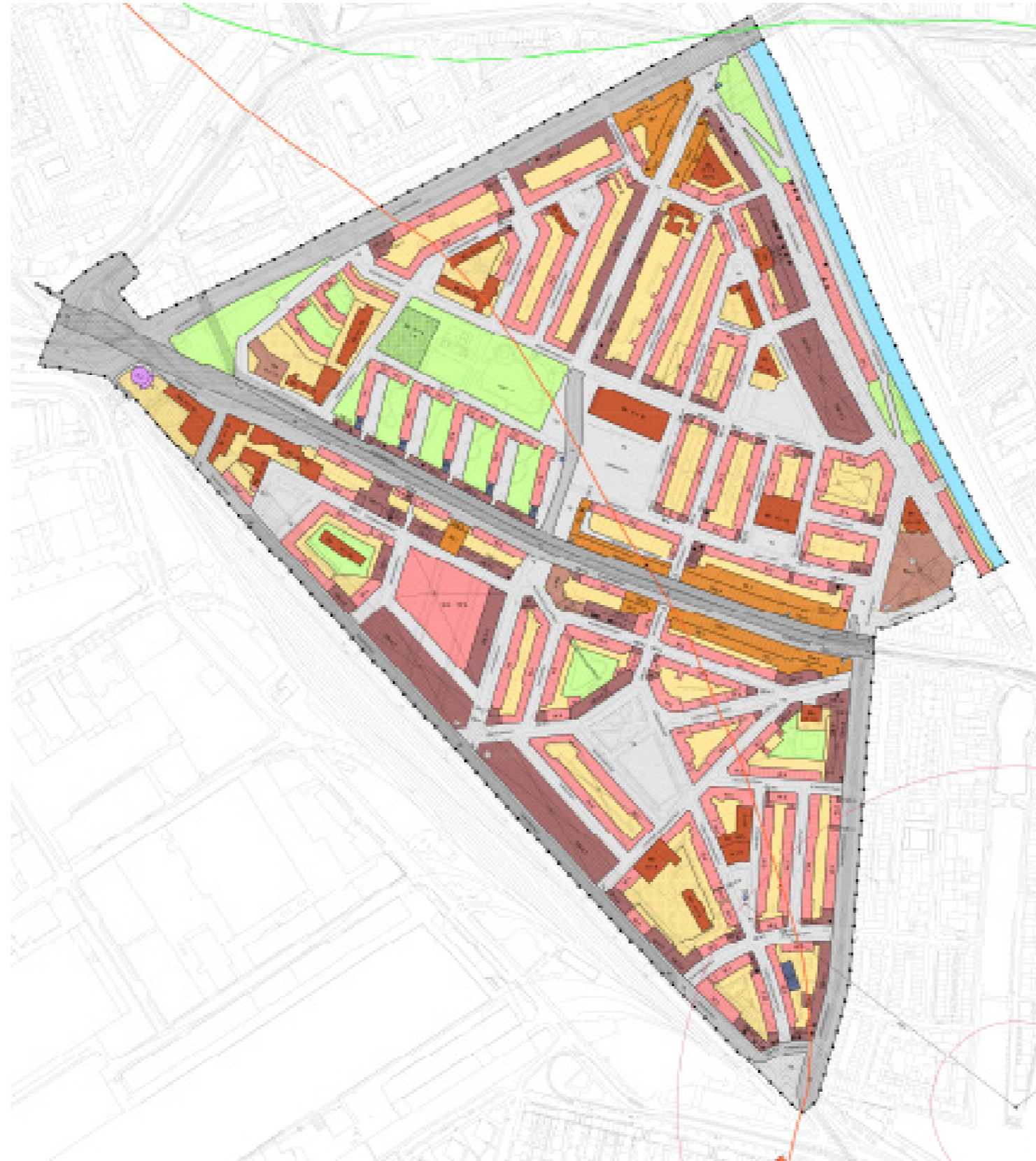
Shoppings

Grote Visserijstraat
1 elevations
5 shops
built: 1945-1960



BUILDING ANALYSIS

2.4 PROGRAM



CIRCULATION ANALYSIS

3.1 MAIN CIRCULATION



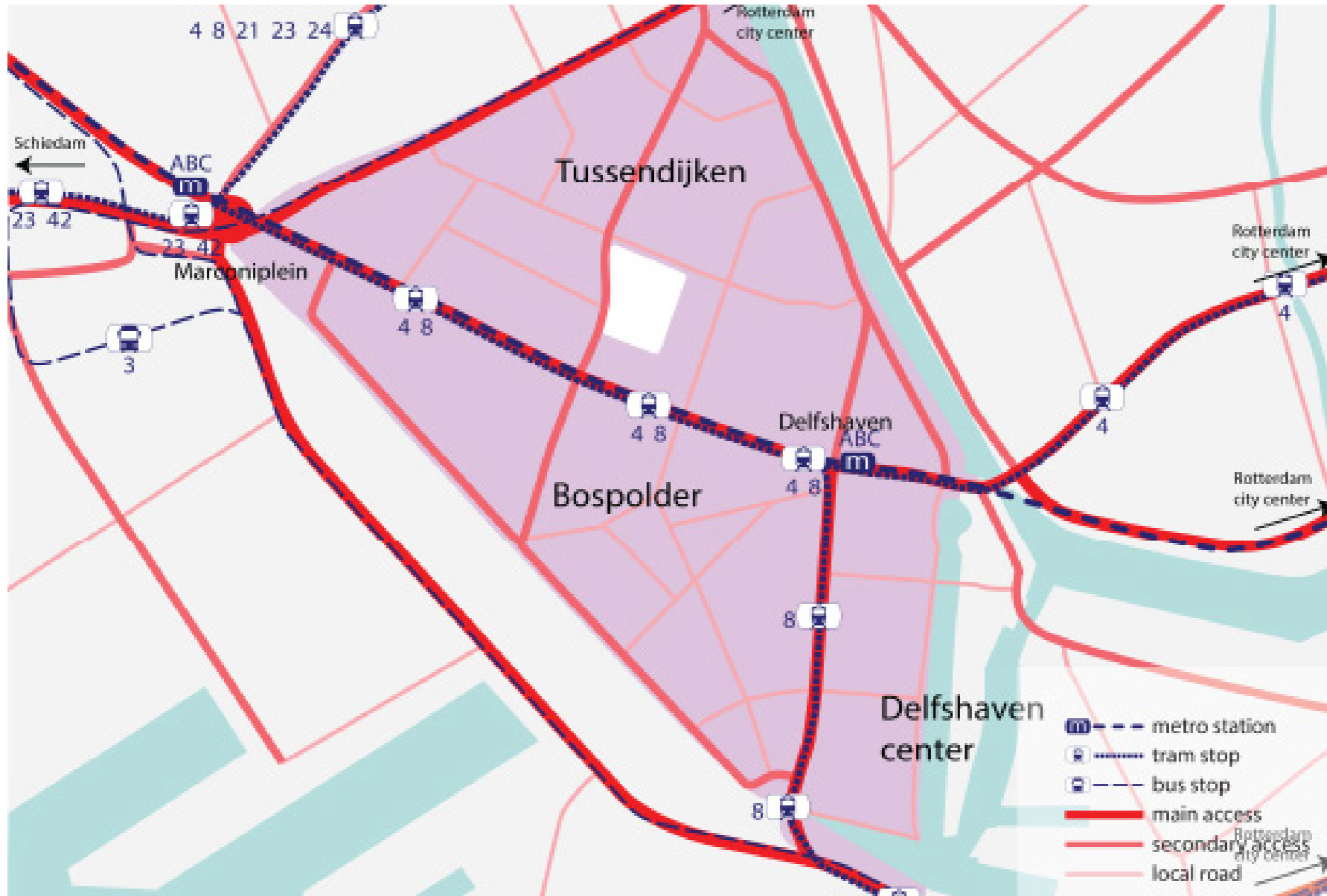
CIRCULATION ANALYSIS

3.2 ROAD TYPES



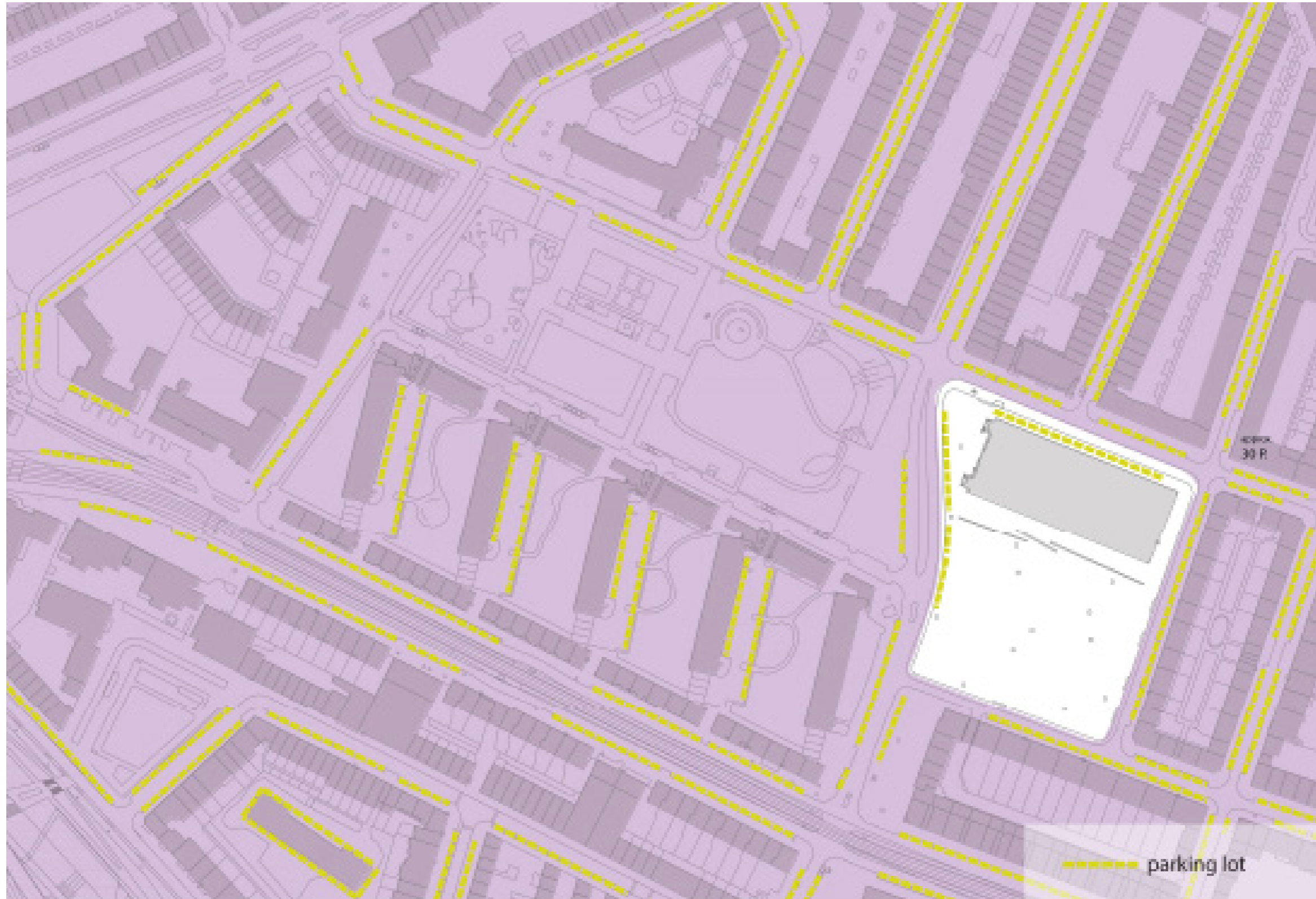
CIRCULATION ANALYSIS

3.3 PUBLIC TRANSPORTATION (BUS & TAXIS)



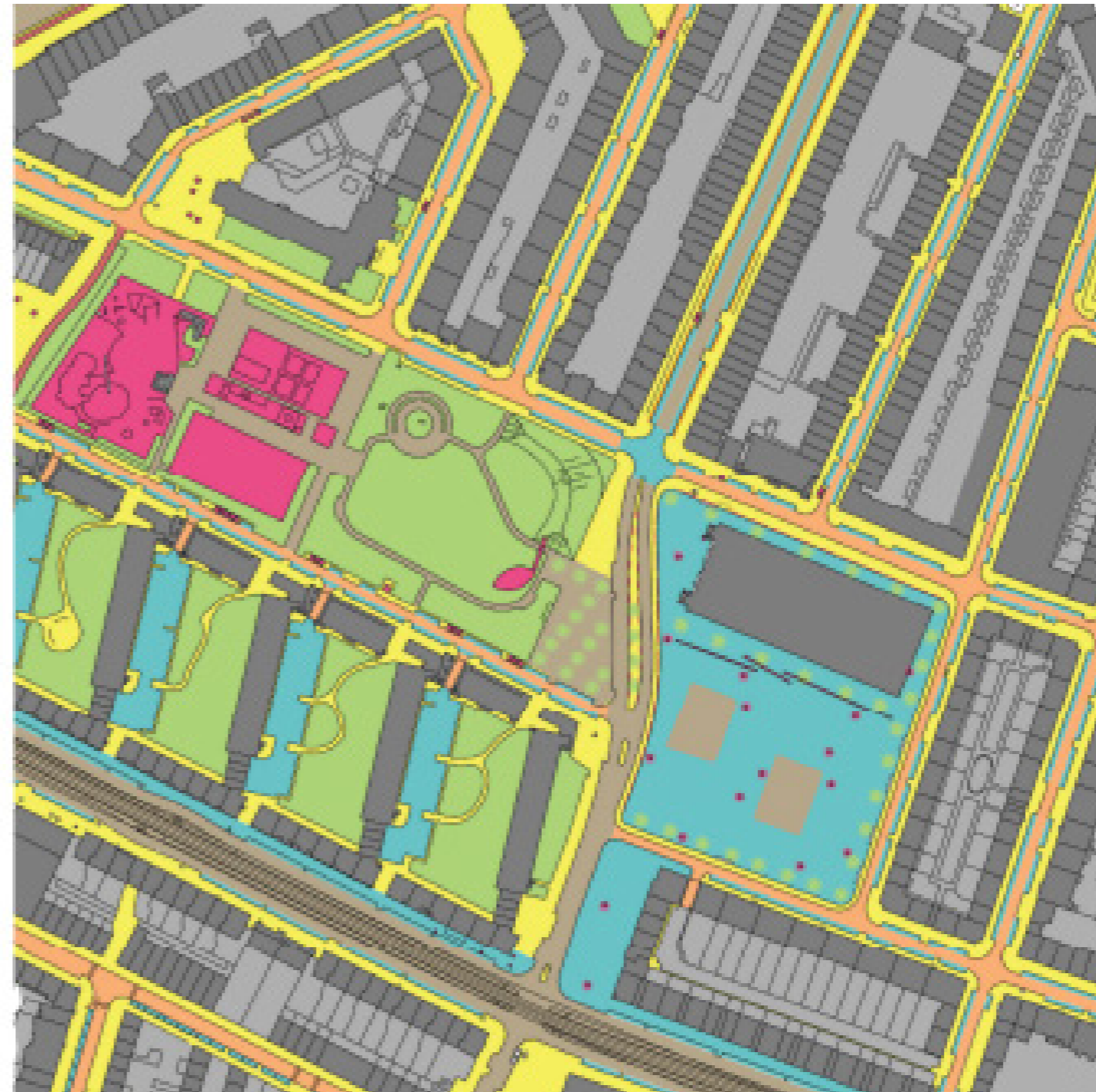
CIRCULATION ANALYSIS

3.4 PARKING



MATERIAL ANALYSIS

4.1 PAVEMENT & 4.2 FACADE



MATERIAL ANALYSIS

4.3 SPECIAL OBJECTS

1. art / electricity tree



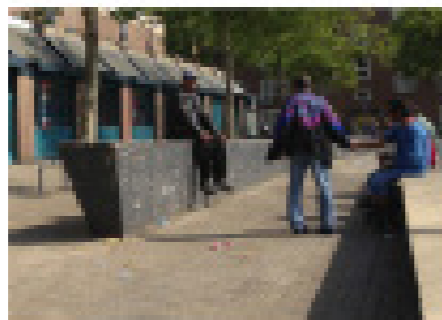
4. recycle bin (left a, right b)



5. entrance park



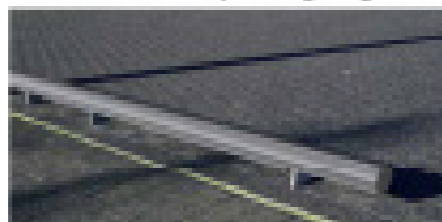
2. small wall



6. playground



3. anti-car / anti-parking ring



7. monument park 1943

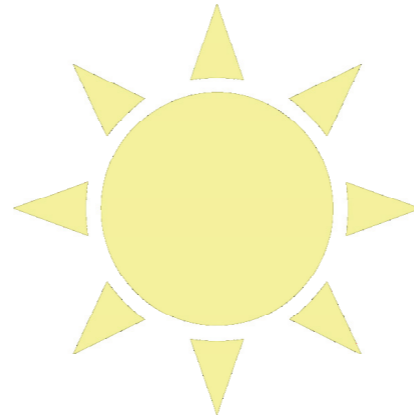


ENVIRONMENT ANALYSIS



5.2 RAIN

- precipitation
- topography (flood risk)



5.1 SUN

- temperature
- sun hour



5.3 WIND

- windspeed
- wind direction



5.4 AIR POLLUTION

- identify different sources

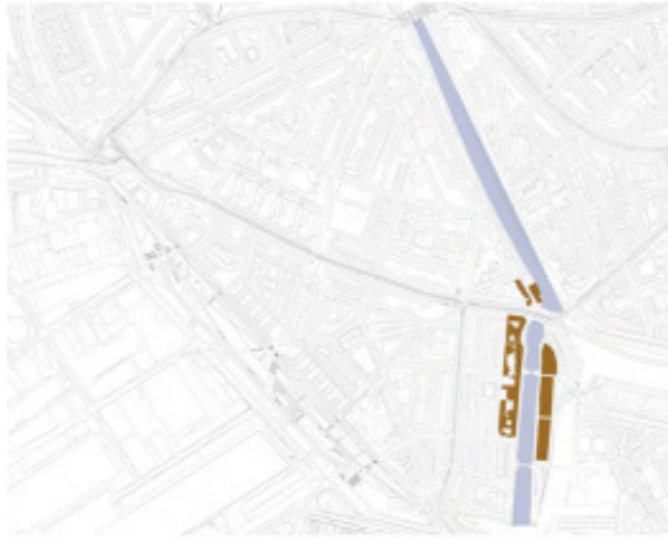


5.5 NOISE POLLUTION

- identify different sources

HISTORY ANALYSIS & FUTURE PLANNING

±1900 Delfshaven



1950-1970 Wederopbouwplan voor Tussendijken



1900 - 1930 Bebouwing Bospolder en Tussendijken



1970 - 2000 Stadsvernieuwing, Renovatie en Nieuwbo



1943 Bombardement



2000 - 2008 Herstructurering



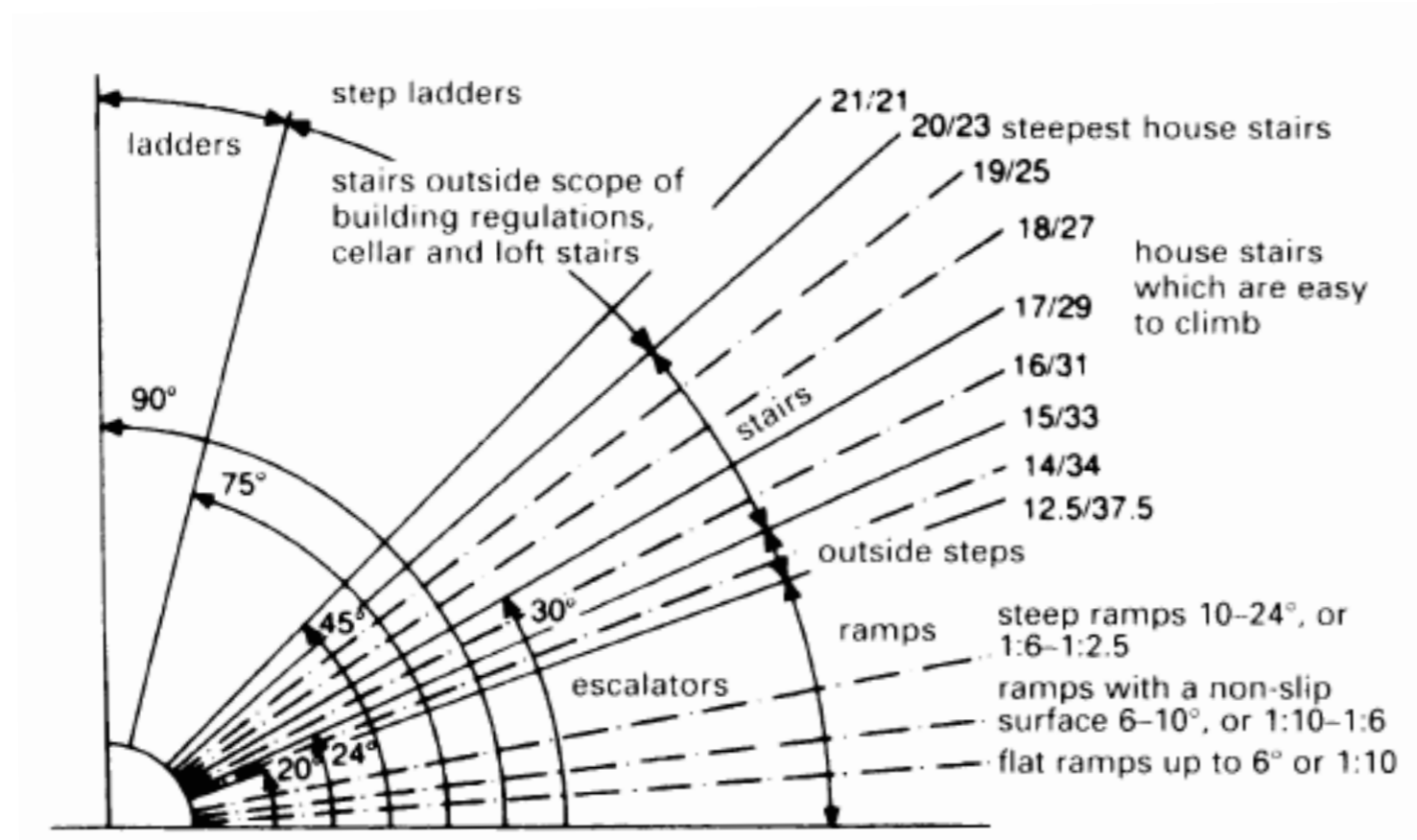
REGULATIONS & STANDARDS

7.1 PARKING

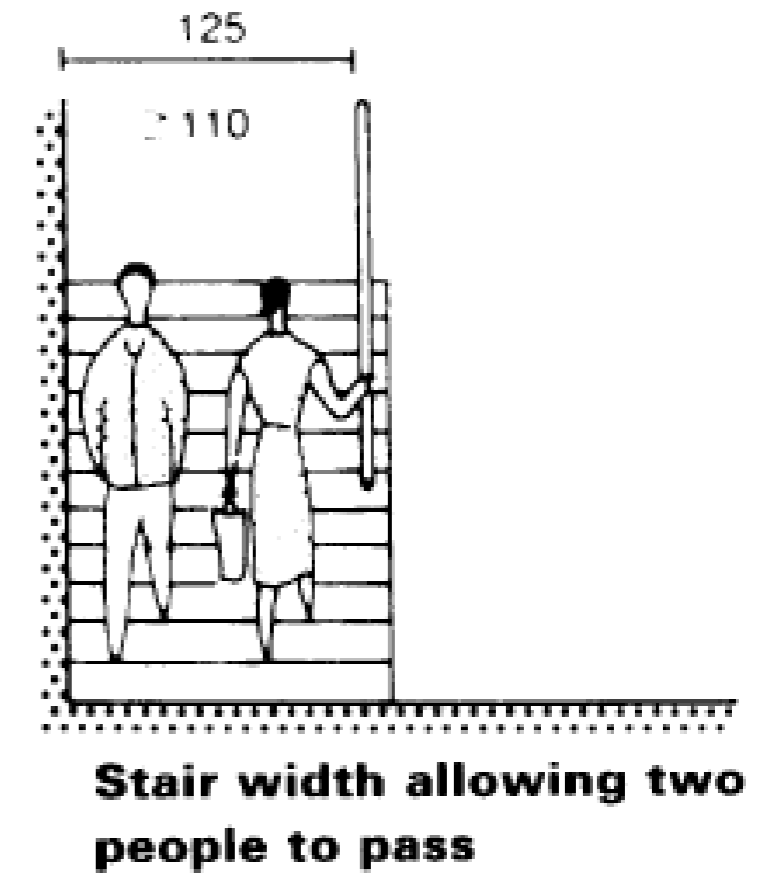
7.3 FIRE SAFETY

7.1 CIRCULATION

7.4 LOCAL BUILDING REGULATIONS



ANGLE OF STAIRS



WIDTH STAIRS

3.4 CONCLUSION

3.4 REGULATIONS & STANDARDS

- DISCUSS THE STRENGTHS AND WEAKNESSES OF THE SELECTED SITE
- DESCRIBE POSSIBLE SOLUTIONS FOR THE WEAKNESSES OF THE SITE