## EXTRA RESEARCH AND MATERIAL

HÅVARD BLEKASTAD


Regulations: Scale 1:5000

Large, freestanding shops/offic-

[^0]

Noise: Scale 1:5000
$\square$ Red zone for noise
$\square$ Yellow zone for noise


Transportation and traffic
$\square$ Yellow zone for PollutionGreen zone for Pollution

On the opposite side is the "Knutepunktsplanen" overlayed on an areal photography to show its interaction with the Oslo and its surrondings. The aim of the plan is to concentrate densification around transporation nodes/hubs.It shows the densification nodes on a regional scale.

Regional urban areas
Local urban areas
Hubs

- Main lines
-     - Seconday lines



As you can see, the existence of small scale housing (defined by the grey forms), and the plan called "Småhusplanen" have a good corelation. This plan will be considered in a dialectical excersixe later on.

## Småhusplanen

$\therefore$ Small scale housing
Water


Here I have overlayed the areas that are scheduled for redevelopement, the designated knutepunkt and the small scale housing units.

Small scale housing
Redevelopement areas

- Knutepunkt
$\square 500 \mathrm{~m}$ radius from Knutepunkt





(L)



# Spawning 

Swelling

Cloning

Replacement

## Public Spaces

There are four main categories of public space in the area. Two of these are situated along the main axis, up towards the hill while the other two are dispersed throughout the area.

1) The streets between the suburban houses.
2) The premisses of public institutions and private businesses.

3) The lower portion of Kjelsåsveien, where there are shops with parking spaces in front on both sides.

4) A space consisting of two parks with the Kjelsåsveien running through



## THE MAIN ROAD



In this area, the road provides a public space. Both sides of the street are lined with public businessses. Together these create a large accsessible space.

## NEIGHBOURHOOD SHOPS OR INSTUTIONS



The institutions situated throughout the area have parking, and are mostly inwards facing. This is done to cater to being accssible mostly by car. This contrasts to the fact that most students arrive by foot to the schools.

## STREETSIDE PARK



Along the main road there is a set of parks: One on each side. Combined with the wide street they form a open expanse in a closed enviorment. The whole ensemble is characterized by expanses of grass, unkempt edges and a low intensity of use.

## SUBURBAN STREETS



The houses all face onto a road of some sort. In most places these roads are small and in a state of disrepair. As one walks along the street, you either face the backside of houses, a cordon of trash bins, tall hedges and large driveways or you walk along low fences, hedges and gravel pathways framed with a trees and bushes farther back.

## SUBURBAN

## STREETS

The street is mostly something to distance oneself from. Some places this happens through distancing oneself from the street, in others there is the implentation of hedges and in some the landscaping and posistioning of the driveway takes care of the distance. In area with older houses, there are more trees, often with a picket fence in front. Newer houses more often are equpied with a hedge of consisting of Thuja. Houses that has been remodeled often have a marked driveway, paved with asphalt or paver-stones providing the distance.

All of this puts emphasis on the illusion of being isolated. The street is seen as an infrastrucutre, a place for rubbish bins, cars and strangers. The gardens and the porches shielded by hedges, fences and distance is where life happens. Houses inhabited by several families take this to the extreme, having carefully laid out ways of entry and egress to provide a very flimsy sense of being independent



## SMÅBYPLANEN

My goal for Grefsen is to transform the suburban to the miniurban. The endgoal is the urbanish feeling of a small town rather than an ensemble of suburban objects placed in a field providing privacy. Every object should relate directly to each of the other objects, not try to avoid relating to the rest. These are goals to be achieved through the manipulation of regulations:

## Privacy

Every dwelling shall have one more private side.

## Occupany

It is a goal that the occupancy, read as the number of humans having their homes in houses on the block doubles.


## Street access

It is a goal that each and every house has easy access to the ground plane directly from the dwelling.

## No street parking

Make all the streets wide enough for two cars passing by removing the parking along the curbs.

## Outdoors space

The access to the street should be mediated by an outdoor space.

## Throughfares

There is to be an access through the middle of each block, forming a cross of pedestrian access.

## No street walls

There shall be no walls along the streets and hedges shall have a maximum height of 1.5 m .

## Open ground

Driveways and parking should have permeable ground cover.

## SMÅHUSPLANEN

The main regulation for single-family housing in Oslo is the "Småhusplanen", a regulation that deals with the houses through the tools of set-backs, maximum heights, maximum occupancy of the site and by detailing the amount of landscaping you are allowed. The regulation provides further rules for planning for several units on the same plot. All of these illustration is based upon Oslo kommune (2006).


## Plot size

The minimum plot size for a new plot is 600 square meters.

## Occupany

A maximum of $24 \%$ of the site can be occupied by building, roofs and parking.


## Parking

A house needs two parking spots, each being 18 square meters. In addition it is necessary to be able to turn a car on you property.

## Eaves height

The max height for a house from the average level of the ground is 6.5 to the eaves, and 9 m to the top of the roof.

## Outdoors area

There needs to be a least 200 square meters of "occupancy area" outside. Of this, a square of 8 m by 8 m is to continuous.

## Play area

There needs to be a continuos square of $8 \mathrm{~m} \times 8 \mathrm{~m}$ of green space with a slope of no more than $1 / 3$.

## Turning area

You need to be able fo turn a car on your own property.


## Retaining walls

The amount you can alter the terrain is regulated by steepness of the plot. If it is if it is $<1 / 3=1,5 \mathrm{~m}$, if it is between $1 / 3$ to $1 / 6$ it is 1 m . If it is less you are allowed to alter the terrain by $0,5 \mathrm{~m}$

## Treekeeping

Trees with trunks above 90 cm in diameter 1 m above the ground can't be felled without extraordinary reasons.


## Light

All rooms for permanent habitation (in a private home this would be the bedrooms and the living room) need adequate light.

## OTHER REGULATIONS

In addition to the regulation of the specific areas under småhusplanen, there is certain regulations that apply to the whole of Norway except for those areas that are exempted/regulated in other ways. These are divided between the TEK 17, authored by Direktorat for byggsikkerhet (2017), the regulation of technological standard in buildings, and the Veglova (1963), the law the regulates matters regarding roads.

## Setback

TEK17 regulates a setback of 4 m from the plot line on all sides for any structure intended for permanent inhabitation.


## Distance from roads

The law regulating roads, dictates that you have to apply for dispensation to build closer than 15 m from the middle of a municipal road.


## Firedistance

TEK17 Dictates that there should be 8 m in between buildings for inhabitation if they don't have firewalls facing each other.


## SMÅHUSMAX CARPET




## CARPET OF UNITS




## ROWS OF UNITS




SWELLING UNITS


| SMÅHUSPLANEN |  | SMÅBYPLANEN |
| :--- | :--- | :--- |
| Outdoors area | Retaining walls | Privacy |
| Play area | Treekeeping | Occupancy |
| Turning area | Light | Street access |
| Parking | Setback | Outdoors space |
| Plot size | Treekeeping | Roads as public |
| Occupany | Firedistance | No street walls |
| Eaves height | Distance from roads | Vegetation |

## Lettvintveien




Lettvintveien 43


Lettvintveien 47


Lettvintveien 45



Lettvintveien 49

## Grefsen Allé



[^1]

Grefsen Allé 2B

## Lindealléen



Lindealléen 10


Lindealléen 12


Lindealléen 16


Lindealléen 16B


Lindealléen 16C


Lindealléen 16D

## APPROACH

## FIRE

The national rules for buildings (TEK17) stipulates that any building with a fire energy of above $400 \mathrm{MJ} / \mathrm{m}^{2}$ there needs to be a divide into fire sections by means of a fireproof walls for every $800 \mathrm{~m}^{2}$. A distance of 8 m is considered as reaching this requirement. If not, there is to be a firewall on the side of the building.


The requirment for such a wall is that the wall is made up of unburnable material, classified to withstand a complete fire on the other side for 120 minutes. Examples of such constructions are concrete ( 120 mm ), light concrete ( 100 mm ) or brick ( 104 mm ). Furthermore this dividing wall needs to break through the facade. In the roof it needs to extend 0.5 above the building or the next roof needs to be fire resistant.Also, any eaves needs to be covered by the roof.


Examples of firewalls


The rules governing the placement of the wall





[^0]:    D Dense, multidwelling housing

[^1]:    Grefsen Allé 2

