Proposed Master Plan for UniverCity South Neighbourhood | by dahwea (david) yan
VISION – LivingCITY@SFU

The MASTER PLAN - Work+Live+Play+Learn+Shop

RECIPE - 8 Key Ingredients

SUSTAINABILITY – Keeping it Fresh

Questions and Discussion
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The MASTER PLAN – 6-steps Recipe

SUSTAINABILITY – Keeping it Fresh (4 X E & Living Building Challenge)

Questions and Discussion
Regional context, site location
Regional context, site location
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RECIPE - 8 Key Ingredients

SUSTAINABILITY – Keeping it Fresh

Questions and Discussion
Imagine…

LIVING NATURE
Imagine...

HAPPY STREETS
Imagine…

COMPLETE COMMUNITY
Imagine...

SUSTAINABLE FUTURE
from a CAMPUS town.....to a MIX-USE COMMUNITY
from a single CIRCULATION SPINE....to a VIBRANT COMMUNITY STREET LOOP & HUBS
from SURROUNDED by nature…to LIVING WITH nature
from great mountain VIEWS....to rich, diverse NETWORK of civic amenities and local links
from after-school hours EXODUS…to 24/7 WORK+LIVE+PLAY+LEARN environment
from a CAMPUS town on a mountain....to a LIVING CITY on a mountain top
from a CAR-DEPENDENT infrastructure…to a INTEGRATED, MULTI-PURPOSE NETWORK
from a CAMPUS town... to a MIX-USE COMMUNITY
from a single-purpose CIRCULATION SPINE....
...to a VIBRANT COMMUNITY LOOP
from SURROUNDING by nature... to LIVING WITH nature
from INTERMITTENT forest trails....
...to rich, diverse NETWORK of civic amenities and local links
from after-school hours EXODUS...
...to a 24/7 WORK+LIVE+PLAY+LEARN environment
from a heavy CAR-DEPENDENT infrastructure…

…to a INTEGRATED, MULTI-PURPOSE NETWORK
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RECIPE - 8 Key Ingredients

SUSTAINABILITY – Keeping it Fresh

Questions and Discussion
RECIPE for SUSTAINABLE GROWTH

RECIPE : How to create a Living City

RECIPE for a Living City
STEP 1: Build on existing CONTEXT / ASSETs

- Based on NORR’s Non-Native Watercourse Modification –Strategy 2)

- Existing buildings including SFU Facilities Management building, Discovery Park buildings
STEP 2: GROW from existing cores

- Student Residential
- Green Corridor
- Commercial Corridor
- Green Corridor
- Academic + Support Cluster
- Residential (South N’hood)
STEP 3: Create new ANCHORS

- West Hub (Students’ Market)
- Community Center / Elementary School
STEP 6: Diverse DISTRICTS....
STEP 5: New SPINE to complete the Loop
STEP 6: Reinforce GREEN & BLUE networks
STEP 6: ...building TYPOLOGIES....
STEP 5: New SPINE to complete the Loop
STEP 6: ...DENSITIES....

- FAR: 0.9 - 1.2
- FAR: 1.2 - 1.7
- FAR: TBC
- FAR: 1.5 - 2.0
- Bldg Ht: 4-5 Storeys
  Units: Approx 800
STEP 6: .... & Landscape CHARACTERS

- Pocket Greens
- Courtyards
- Courtyards / Plazas & Squares
- Community Park
- Agri-farms / Natural Forest
- Naheeno Park
- Linear Gardens
- Community Gardens / Pavilions
- Pocket Greens
- Courtyards
The MASTERPLAN
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RECIPE - 8 Key Ingredients

SUSTAINABILITY – 4 X E | 7 Petals

Questions and Discussion
Environment – Limits to Growth
Environment – Urban Farming
Environment – Pedestrian Orientated
Environment – Pedestrian Orientated
Environment -
from a CAMPUS town…..to a MIX-USE COMMUNITY
from a single CIRCULATION SPINE….to a VIBRANT COMMUNITY STREET LOOP & HUBS
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A VIBRANT, SUSTAINABLE & COMPLETE COMMUNITY – LIVING CITY@SFU
A SNAPSHOT...The Future of LIVING CITY@SFU

Sectional perspectives of a selection portion of the devt, showing all the combined elts of living nature, living community, living streets, living future.......
CHARACTERISTICS of a GREAT STREET

- Designed for pedestrian
- Human-scaled
- Suitable materials
- Kerbside details
- Physical, programs, time links
- Solar and wind considerations
- At grade activities
- Flexible, diversity, changing character
Recipe for Success: 6 Key Ingredients

SFU Burnaby as a piece of STEAK!
Recipe for Success: 6 Key Ingredients

SFU Burnaby as a piece of STEAK!
Mission Statement

A complete, vibrant and walkable community which functions in synergy with the natural and educational environment.

A complete, vibrant and sustainable community that

What do I mean by that?
- physical, programmatic, time links
- work, live, play, learn
- Economy, ecological, equity, education cornerstones
Imagine.....
(see notes and butter paper sketches)

**Principles**

<table>
<thead>
<tr>
<th>ENVIRONMENT</th>
<th>SOCIAL EQUITY</th>
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</thead>
<tbody>
<tr>
<td>❖ Integrate natural features and local context</td>
<td>❖ Student/faculty oriented</td>
</tr>
<tr>
<td>❖ Pedestrian scaled community with well connected greenways and paths</td>
<td>❖ Family friendly</td>
</tr>
<tr>
<td></td>
<td>❖ Flexible and affordable housing options</td>
</tr>
</tbody>
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LivingCITY@SFU mountain-top campus
**Principles**

**ECONOMIC VIABILITY**
- Mixed-Use
- Increased diversity of retail services and entertainment options
- Housing options including flexible work/live arrangements

**KNOWLEDGE INTEGRATION**
- Integration of University and community

Critical mass for a sustainable district energy system
Ultimately, and in a nutshell, this is what it will look like from outer space*.... have a great weekend and HAPPY CANADA DAY!

(* - Directions: Dim all lightings within ring road, except those within the two retain/commercial hearts and the street lightings along the Festivity Spine.)
It’s going to be great living City... b’cos it’s taken care of by a group of happy, awesome people.....
• targets:
• - stormwater management
• - energy efficiency
• - social equity
• - waste reduction
• - density
• - transport?
imagine

- Key demographics (age, income, who, commute patterns...)
- Social analysis (why residents like it here: refer to booklet p12-> informs the development of south neighbourhood)
- Existing development analysis (ext’g densities, Dus, resident count
- Site analysis
  - Solar/views(city view of south n’hood vs mountain views of east n’hood)
  - Contours
- Characters/edges/connections/place/activities
- Existing park (preserve area) trees, watercourses
- Transport/transit (bus, gondola)
- SWOT analysis
- Who are the future residents and why? (page 12 of booklet)
IMAGINE....1.,2.,3.,4.....

- Transport Masterplan
  - Public transit (ie. External: Bus, gondola etc.; Internal: bike, buggy, segway, rollerblade)
  - Bicycle and pedestrian (+ even personal mobile devices ie. Segway, buggy?)
- Land-use pattern
- Overall masterplan
  - OVERALL CONCEPT & STRUCTURE
    - DEVELOPMENT MASSING & FORM: design density
    - BROAD ZONING/STRUCTURE (main axis, secondary axis, main spine, green spine, entrance, exit, public nodes, transit nodes, commercial nodes, commercial spine etc.....)
    - ZONING: commercial/retail services (*important as this address residents feedback on lack of shops and services, the convenience factor, and to demonstrate how south neighbourhood’s commercial green spine can link up with existing high street & cornerstone commercial spaces
    - ZONING: community/institution services
    - CIRCULATION: veh / ped / bike circulation plan + service access
    - ENV PROTECTION & INTEGRATION: (topo, watercourse, trees, wildlife)
    - VIEWS: study (how it looks like from below the mountain)
    - ZONING: public/semi public/private analysis
- Phasing plan
- sections of green spine/diagrams, sketch up of green commercial spine, courtyard
- Layers in exploded axometric view – slope, green spine, commercial spine, residential blocks, courtyard, nature (bioswales, forest natural setting)
Imagine…

LIVING NATURE
Imagine...LIVING NATURE
Imagine...LIVING STREETS
Imagine...LIVING COMMUNITY
Imagine...LIVING FUTURE