

# DISTRICT OF TOFINO

- Need to do something about housing
- Housing a Top Council Priority
- Market is not going to solve it
- Have land
- Let's take action!



# DISTRICT OF TOFINO

- 2015 Housing Needs Assessment
- 2016 RFP existing group to building housing
- 2017 Tofino Bible Fellowship let us build some housing
- 2017 –Tofino Housing Corporation restarted
- 2017 Partnership formed between Tofino Housing Corporation and Tofino Bible Fellowship





DL 114 - 1.1 ha / 2.7 ac



Sharp Rd - 0.2 ha / 0.5 ac





# TOFINO BIBLE FELLOWSHIP

- 20 unit apartment
- Studio, 1, 2 and 3 bedroom rental units
- 2500 sq ft of community space
- Large meeting room, breakout rooms and small kitchen

## TOFINO HOUSING CORPORATION

- 35 units on DL 114 townhouses and apartments
- 11 units at Sharp Rd. courtyard townhouses
- Studio, 1, 2 and 3 bedroom units
- Rental, maybe some attainable homeownership units



Memorandum of Understanding Nov 2017 Employer Survey
Nov 2017 –
March 2018

Rural Dividend Fund \$500,000 grant March 2018 (matching funding TBC)

Spring 2018 project teams assembled

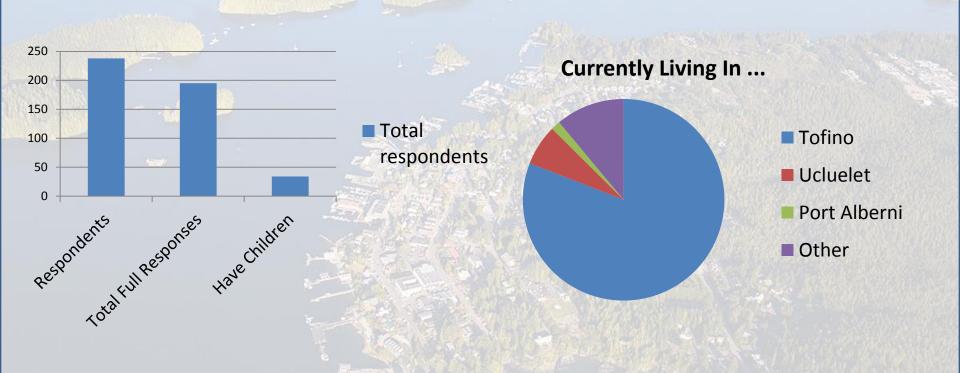
Housing Forum Nov 2017

Housing Survey Nov 2017 – March 2018 Spring 2018 confirming matching funding for design phase

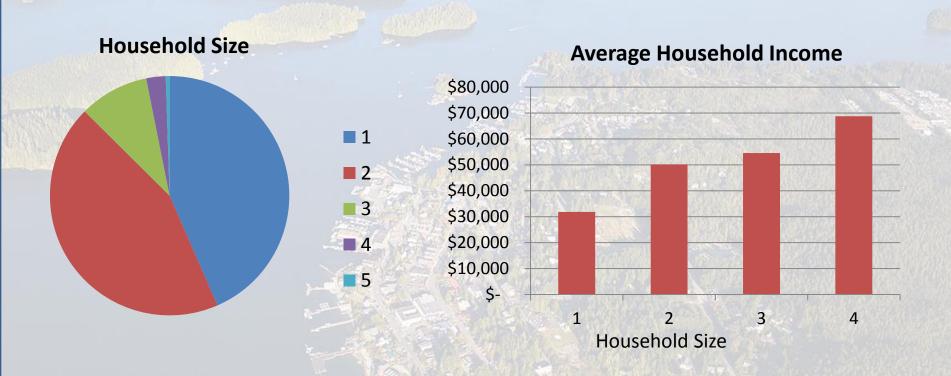
June 19<sup>th</sup> 2018 → public presentation of preliminary project plans



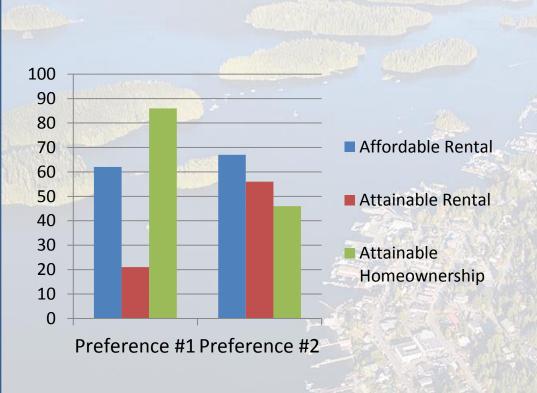
## **Housing Survey**











#### **TBF Unit Preference**

Studio	16%
1 Bedroom	32%
2 Bedroom	35%
3 Bedroom	18%

#### **THC Rental Preference**

Studio	22%
1 bed apartment	19%
1 bed townhouse	14%
2 bed townhouse	21%
2 bed apartment	12%

#### **THC Attainable Ownership**

2 Bedroom Cottage	33%
2 Bedroom SFD with 1 bed suite	13%
1 Bedroom with Loft Cabin	12%
2 Bedroom Townhouse	11%
3 Bedroom Half-Duplex	9%



## **Housing Survey**

34 respondents rent from employer

## **Employer Survey**

- 110 Responses
- 17% of Tofino Businesses
- 687 Beds Rented Out
- 120% capacity
- Median price \$400
- 71% year round employees
- 280 employees living in trailers and tents
- Need 240 year round beds
- Need 420 seasonal beds





DL 114 - 1 ha / 2.5 ac



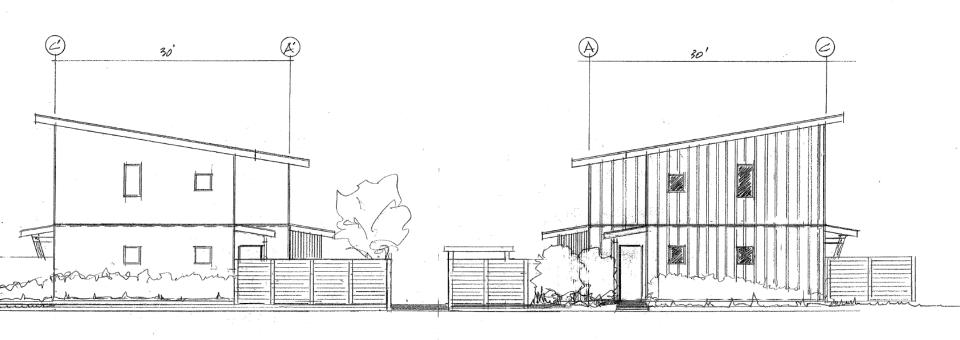
Sharp Rd - 0.2 ha / 0.5 ac



## Sharp Rd Site Plan

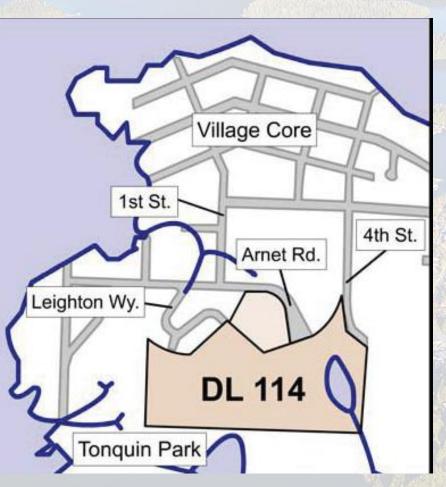


## Sharp Rd Townhouse Concept



SHARP ROAD ELEVATION (HORGH)







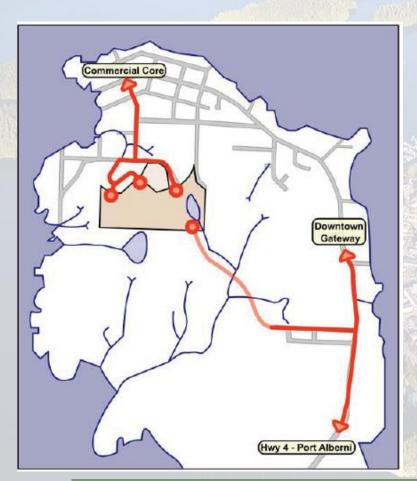


# DL 114 Local Area Plan (see District of Tofino Official Community Plan) Guidelines

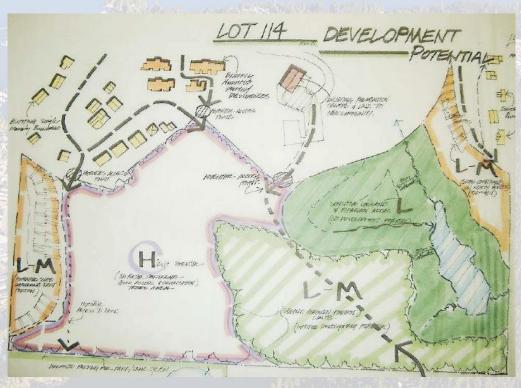
- Respect adjacent land uses;
- Respect and enhance existing natural surface drainage patterns and features;
- Limit development in environmentally significant or sensitive areas/sites;
- Provide a mix of residential densities and types;
- Achieve a net minimum density of 20 units per hectare;
- Maximise the use of existing road and infrastructure and incorporate the proposed Arnet Road Utility Corridor into the infrastructure network;
- Incorporate potential trail network links to community amenities;
- Promote and conserve ecologically sensitive areas;
- Augment adjacent recreation amenities by identifying appropriate linkages and open-space;
- Support OCP land use policies regarding SmartGrowth and open space;
- Keep servicing and infrastructure costs down by incorporating natural hydrological processes (i.e. stormwater management); and
- Promote an active and healthy lifestyle through positive social interaction and opportunities for physical activity.



Local Area Plan access points



Local Area Plan development potential ratings



## Local Area Plan Overall Land Use Concept







Look at land and servicing in much more detailed way – *Project Design* 

- Topography
- Natural environment streams, wetlands
- Geology and soils (geotech)
- Civil engineering roads, water, sewer, storm, hydro, lighting
- Site planning building location, parking, rainwater management
- Unit mix and size building design



To Here ...





### Why Access # 3 first?



#### #1 - Arnet

- Sewer line & recreation centre design still underway
- Access past undevelopable areas
- Adjoining steep slopes
- Long gravel road access (Arnet)

#### #2 - Peterson

- Crosses stream and ravine
- No advantage to #3

#### #3 – Leighton Way

- Access already there (needs improving)
- Less constraints to accessing developable areas
- Previously zoned

#### #4 - Industrial Way

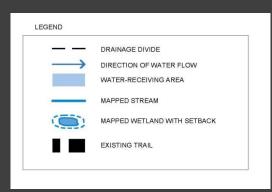
 Very long access not feasible for affordable housing development

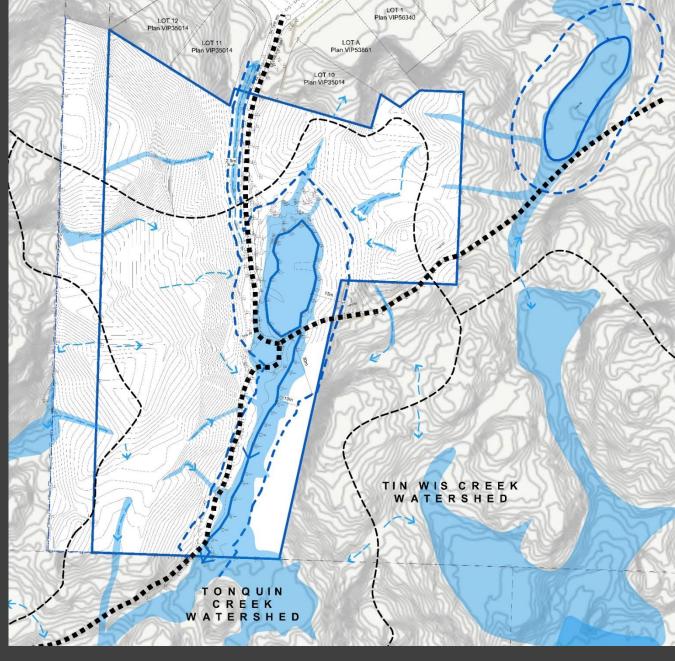




- Protected wetlands and streams
- Steep slopes
- Water management
- Engineering standards
- Funding sources

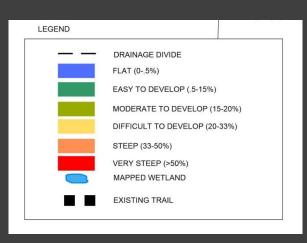
# SITE ADAPTIVE PLANNING: WATER FLOWS

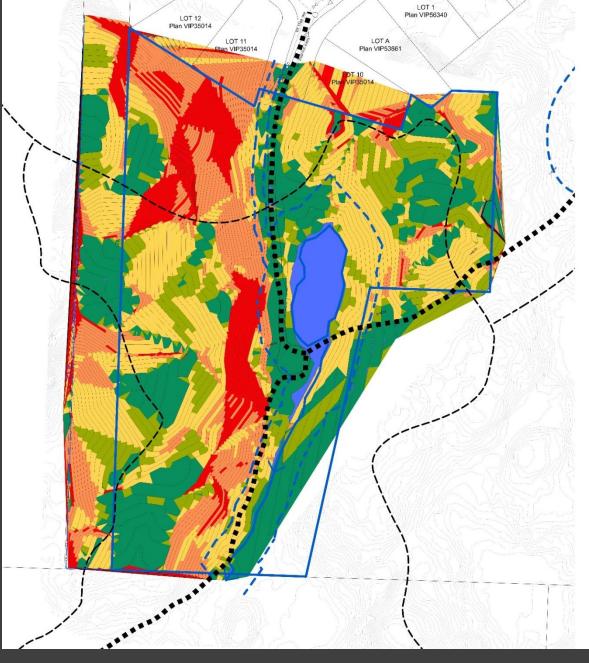






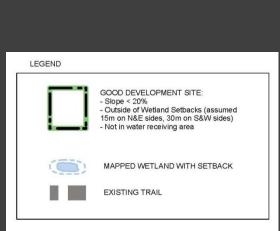
# SITE ADAPTIVE PLANNING: SLOPE ANALYSIS

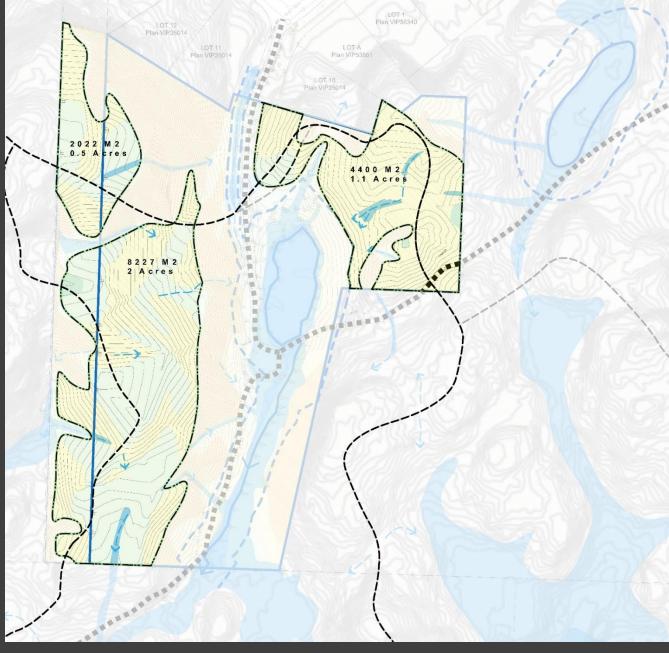






# SITE ADAPTIVE PLANNING: PREFERRED DEVELOPMENT SITES

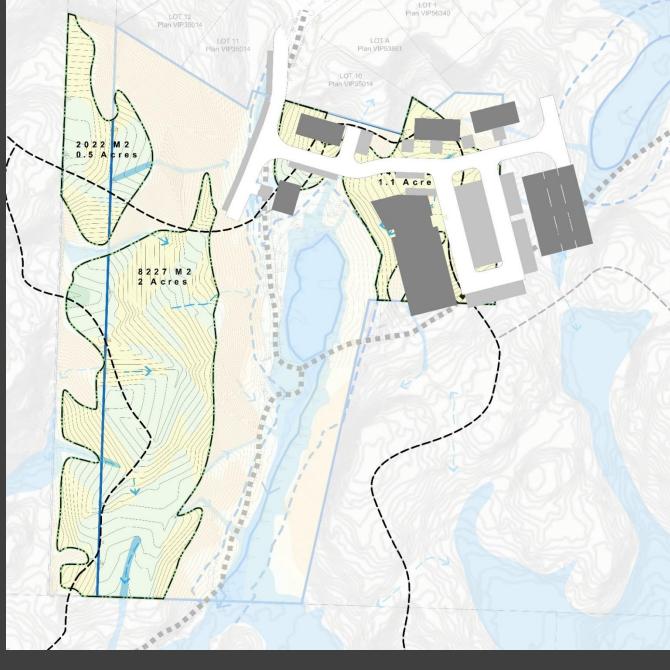






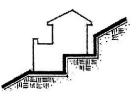
# PHASE 1 SELECTED BUILDING AREA



















#### **CONCEPTS**

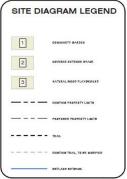
- 1 WORK WITH EXISTING SLOPES
- 2 MAINTAIN EXISTING NATURAL ELEMENTS
- 3 INCORPORATE NATURAL MATERIALS
- 4 PROVIDE VIEWS TO TO THE OUTDOORS
- 5 PROVIDE NATURAL DAYLIGHTING

C H P ARCHITECTS

Architecture · Landscape Architecture
www.chparchitects.com

### DL 114 SITE PLAN





#### **PROGRAM**

THC - A = 2 UNITS (TOWNHOUSES)
THC - B = 4 UNITS (STACKED UNITS)
THC - C = 4 UNITS (STACKED UNITS)
THC - D = 4 UNITS (STACKED UNITS)
THC - E = 21 UNITS (APPARTMENT BUILDING)

TOTAL THC = 35 UNITS

TBF - A = 20 UNITS (APPARTMENT BUILDING)
TBF - B = COMMUNITY CENTRE



## DL 114 ILLUSTRATIVE MASSING



### **DL 114 SECTIONS**





## DL 114 TOWNHOUSE CONCEPT DESIGN





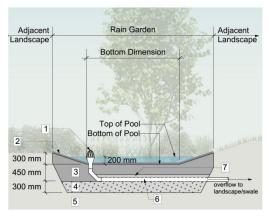
## DL 114 APARTMENT / COMMUNITY CENTRE CONCEPT DESIGNS





### 1 RAIN GARDENS

Rain gardens are constructed landscape depressions that use permeable soil and plants to slow, cleanse and infiltrate stormwater runoff. Rain gardens are both functional and aesthetic elements in the landscape.



#### RAIN GARDEN MATERIALS

- 1. Overflow drain, 200 mm domed grate + adapter
- 2. Composted mulch, 50 -70 mm depth
- 3. Bio-retention growing medium, 450 mm depth
- Scarified/tilled subgrade, 300 mm depth
- 5. Existing subgrade/native material
- 6. 100 mm diameter (min) perforated pipe
- . 25 mm diameter drain rock, 100 mm depth

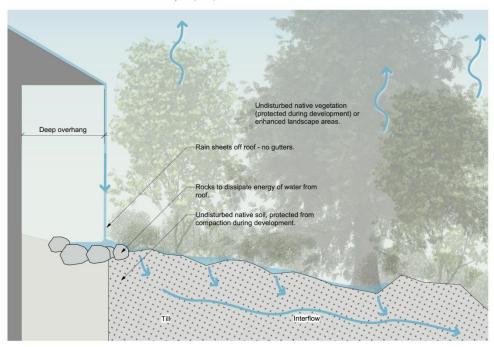




#### **2** ABSORBENT LANDSCAPES

Our native forests have the capacity to slow, absorb, evaporate and transpire rainwater. We can use these absorbent landscapes to handle a portion of runoff generated by development. In order to do so, we must protect these absorbent landscapes from development activity, and disperse stormwater towards them via sheet flow.

MORE INFORMATION: District of Saanich "Stormwater Best Management Practices: Absorbent Landscapes"; GVRD "Stormwater Source Control Guidelines: Absorbent Landscapes" (2005).

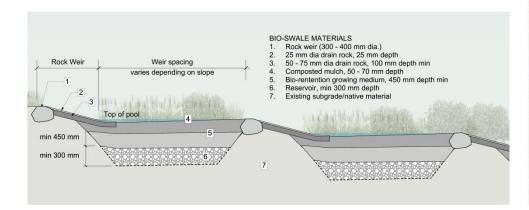






#### 3 SWALES

Swales are planted channels that convey stormwater runoff. On sloped sites, swales are constructed using weirs that slow the flow of water and encourage some settling, slowing, and infiltration of runoff.

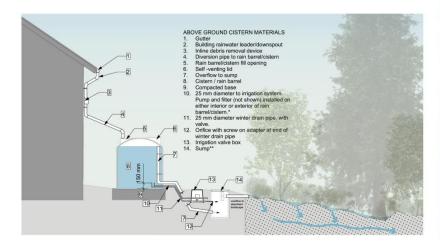






#### 4 CISTERNS

Cisterns can be designed to slowly release water during wet months, slowing the rate at which stormwater is released to swales, raingardens or absorbent landscape areas. During dryer months, the cistern stores water for irrigation or fire suppression.



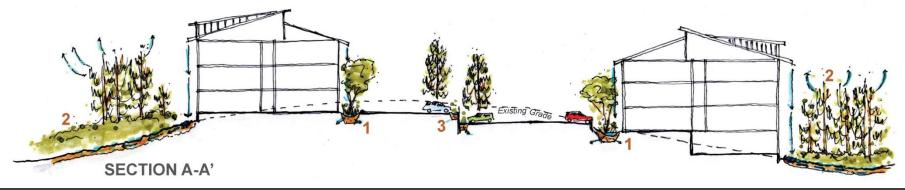




## SCHEMATIC STORMWATER PLAN



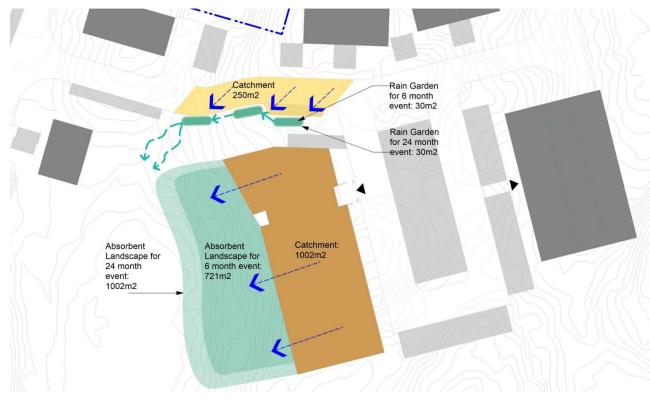
- 1 RAIN GARDENS
- 2 ABSORBENT LANDSCAPES
- 3 SWALES
- 4 CISTERNS



## TESTING STORMWATER DESIGN



Feature and Design Storm	Size Factor
(sq.	(%)
Rain Garden 6 Month	12%
Rain Garden 2 Year	17%
Absorbent Landscape Capacity-6 month	72%
Absorbent Landscape Capacity-2 year	100%







Preliminary Project
Plans / Pre-Rezoning
Consultation

**Funding Approved!** 

Move-in!

- Geotechnical test pits
- Additional survey
- Traffic study (DL 114)
- Detailed Environmental Assessment
- Revise Plans
- Initiate Rezoning Process
- Rezoning Approved
- Detailed Plans
- Capital & Operating Budget
- Funding Applications –
   September 2018 or later

- Confirm rents & prices
- Construction documents
- Building permits
- Tender
- Reconfirm rents & prices
- Construction
- Take-out mortgage



Preliminary Project Plans

**Funding Approved!** 

- BC Housing
- CMHC (Federal)
- District of Tofino
- Other government & private funding

- Geotechnical test pits
- Additional survey
- Traffic study (DL 114)
- Detailed Environmental Assessment
- Revise Plans
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- Move in!