

Process

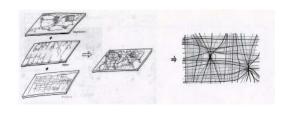
Principle Development

The four principles described below attempt to approach urban structure and strategic planning from a framework of interactive performance, as opposed to the more conventional form-based frameworks. The abstract nature of the principles is intentional and essential to facilitate a shift to a new paradigm for urban planning and urbanization in the 21st century. While all are inherently interrelated, each principle perceives the process through a different lens. Consequently each negotiates specific indicators/metrics, and each involves different behavioral shifts and their related formal implications.





Resiliency



Gradation



Dynamic Equilibrium

Self Sufficiency

Process

Research

Construction



2030 Challenge

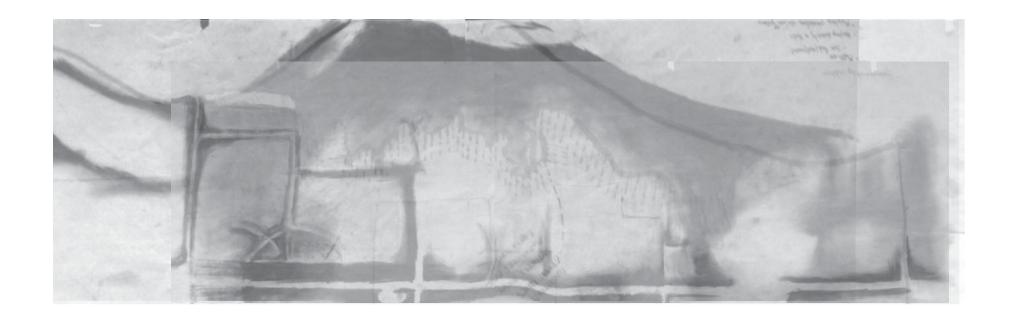


Green Systems Functions



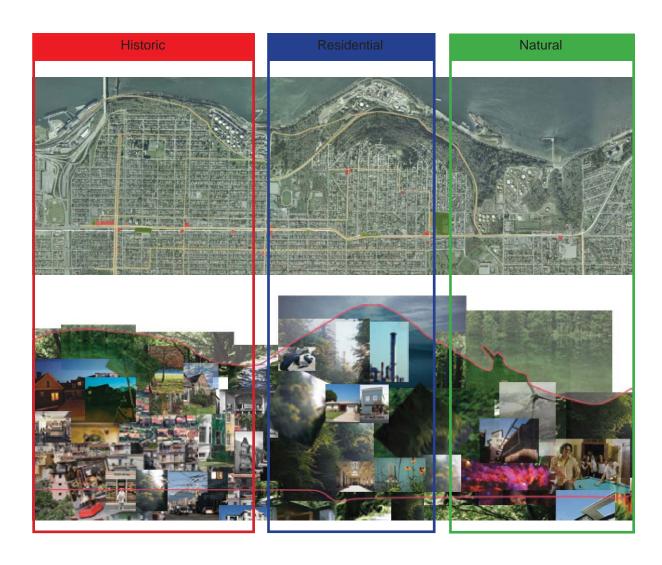
Process

Applying Concepts: transportation, green networks, activity intensity



Process

Identifying Character Areas: East/West



Process

Identifying Character Areas: North/South



Strategic Plan

Legend

Colored areas indicate formal changes

New Residential	New Mixed Use	Improved Civic	Connected Green Systems	Better Transit and Transportation
type. COACH HOUSE density. 1 UNIT PER LOT	type. 3-STOREY density. 26 D.U. PER ACRE	•	type. PARKS/GREEN INFRASTRUCTURE density. N/A	type. TRANSIT ROUTES type. URBAN TRAIL type. TRANSIT STATIONS
gradient. existing block edge conditions become less rigid	gradient. visually integrates with existing residential and commercial urban fabric.	gradient. relaxes boundaries between traditional zoning uses.	gradient. ecological systemis protected in wooded areas and integrate into multi- function streets.	gradient. transit options with varying degrees of intensity
dynamic equilibrium.	dynamic equilibrium.	dynamic equilibrium.	dynamic equilibrium.	dynamic equilibrium.
offers diversity of housing choices for changing family and social structures over time.	offers diversity of housing and commercial opportunities.	capitalizes on and illuminates areas of multi-systemic intensity	encourages balanced interactions between ecological, social, and infrastructural systems.	multiple modes and routes converge at points of systemic intensity
resiliency via flexibility.	resiliency via flexibility.	resiliency via flexibility.	resiliency via flexibility.	resiliency via flexibility.
provides neccessary density while retaining existing structures and neighborhood character	flexible use as required across time and location. allows for the adaptive re-use of existing structures.	allows for re-use of existing infrastructure. creates flexibility in systems functions.	capitalizes on and connects areas of existing green systems to improve functionality.	varied and flexible systems provide resilient service. builds upon existing infrastructure.
self-sufficiency	self-sufficiency	self-sufficiency	self-sufficiency	self-sufficiency
residential density and proximity supports commercial areas.	residential density and proximity supports commercial areas.	creates opportunities for district energy and decoupled systems.	provides neighborhood opportunities for human/ nature interactions.	fine grained transit web strengthens opportunities for environmentally sustainable neighborhood.



Phase 1: 2020. Increasing Transit Density







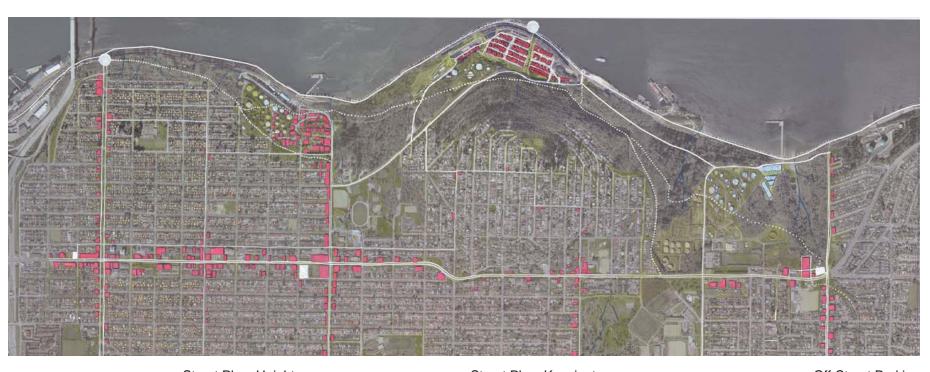
^{*}see appendix for full size diagrams

Phase 2: 2020. Retrofitting Infrastructure



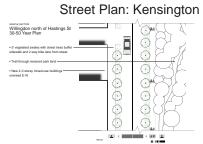
^{*}see appendix for full size diagrams

Phase 3: 2030





*see appendix for full size diagrams





Precedents: Gradient



Process

Precedents: Dynamic Equilibrium



Precedents: Self Sufficiency



Precedents: Resiliency via Flexibility



Strategic Plan

Phase 3. 2030

Resiliency Via Flexibility: Increased density is accommodated largely via retrofitting existing structures



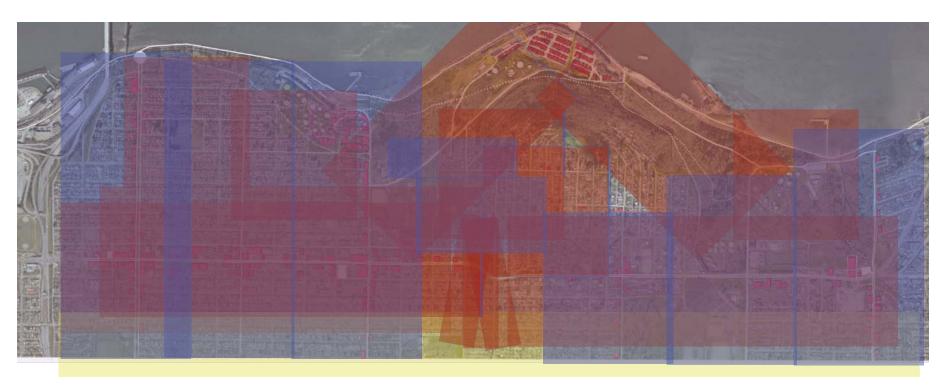
Density allocations

Additional Commercial Space: m ²
1: 35 500
2: 20 701
3: 52 618
4: 32 000

Additional Residentia	I Units	
1: 4500	6: 390	
2: 705	7: 195	
3: 650	8: 235	
4: 225	9: 585	
5: 200	10: 314	

Phase 3. 2030

Gradient: 200m Transit Access



east-west

north-south

north-south, adjacent to site transit route

Strategic Plan

Phase 3. 2030

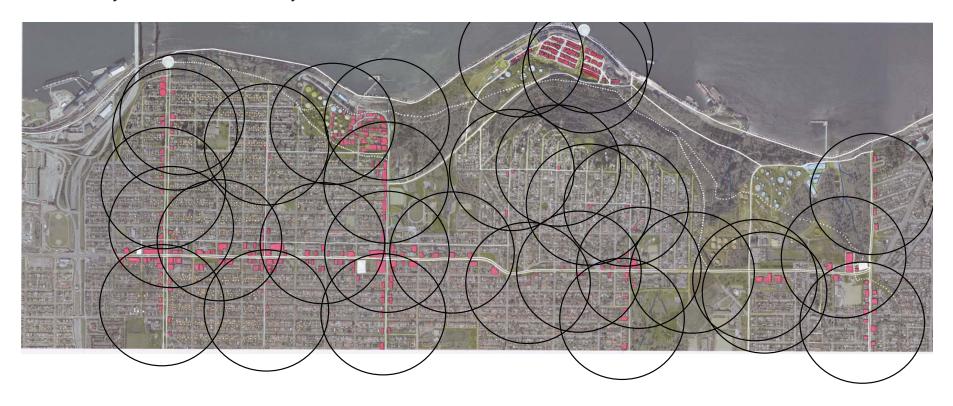
Dynamic Equilibrium: Regional Systems



Strategic Plan

Phase 3. 2030

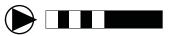
Self Sufficiency: 400m Commercial Amenity Access



Phase 3. 2030

Hastings Street Character: The Heights





Strategic Plan

Phase 3. 2030

Alley Character: The Heights



Appendix

Density Allocation Table

Additional Commercial

	COMMERCIAL SPACE CALCULATIONS
LOCATION	AMOUNT (FLOOR AREA IN m ²)
Area at base of	28 000 m ²
Willingdon	$7500~\text{m}^2$
NW Corner of Sperling	20 700 m ²
Along Hastings	52, 618 m ²
Surrounding transit	$32000\mathrm{m}^2$
node	
	3500 jobs x 14 m ² (150sqft) = 48 775 m ² 2500 jobs x 18.6 m ² (200sqft) = 46 450 m ²
	2500 jobs x 18.6 m ² (200sqft) = 46 450 m ²
TOTAL REQUIRED	95 225 m^2
TOTAL PROVIDED	103, 703 m ² (8.9% extra)
	* This does not include:
	- commercial components of mixed use along Boundary,
SUMMARY	Willingdon and Holdom
	- the employment created by eco-industrial and civic/institutional areas

Appendix

Density Allocation Table

Additional Residential

	RESIDENTIAL SPACE CALCULATIONS
LOCATION	AMOUNT (D.U. = DWELLING UNITS)
All SF Residential @	4 500 d.u.
+1	
'Heritage Heights' @	940 d.u. x 75% coverage = 705 d.u.
+2	
Along Heatings	650 d.u.
Along Hastings	8.6 acres mixed use = 225 d.u.
Along Boundary Willingdon (North side)	8.6 acres mixed use = 223 d.u. 200 d.u.
Willingdon (South side)	390 d.u.
Holdom	195 d.u.
Kensington Plaza	(Kensington Plaza) 105 d.u.
Kensington i iaza	Sperling end of site, existing commercial convert to mixed use 2.5 acres = 65d.u. + 26
	d.u. + 39 d.u
	= 235 d.u.
Sperling (edge of site)	390 d.u. + 195 d.u. = 585 d.u.
Surrounding transit	300 d.u.
node	
TOTAL REQUIRED	7 500 d.u.
TOTAL PROVIDED	8100 d.u. (3% extra)
	300 additional units
SUMMARY	flexibility in terms of secondary suite conversions

Zoning Analysis

Pillars and Values

	ECOLOGICAL	SOCIAL	(INFRA)STRUCTURAL	ECONOMIC
RESILIENCY	Natural Systems > Conventional Engineering High Interconnectedness > Low Biodiversity > Homogeneity Large Reserves > Small Reserves Wide Natural Corridors > Narrow Redundant Reserves > Singular	Recognize & respect value of embedded memory Cultivate existing social condensers Facilitate diversity of demographics, tenures, and architectural typologies Celebrate 'Sense of Place' Reinforce local identity though important events (e.g. Hats off day, Halloween in the Heights, etc)	Primacy of Pedestrian > auto-orientated Priority given to systems based on highest degree of synergy achieved (i.e. number of 'layers' successfully integrated/interacting Simplicity > Complicatedness Decentralized (local) systems > Centralized systems Optimized function depends upon diversity / redundancy	- Provide diversity of housing choices (types, sizes, tenures) - Local Markets > Global Commerce - Encourage innovation (by providing incentives to 'niche markets' compatible with pillars) - Ensure taxation strategies adapt according to optimized performance of local systems - Chain Stores as 'Boutiques' rather than 'Big Boxes'
GRADATION	- Gradated links between natural forms/ systems and human forms/ systems [e.g. ↑ natural towards East and Burrard Inlet, ↑ man-made towards Burnaby Heights + Hastings Corridor]	- Human →Nature - Public → Private - Transparent → Opaque - Fast → Slow - Loud → Quiet - New/Young → Old - Individual → Block → Neighborhood → Community → Region	- Individual behaviors ⇒ global impacts, so systems must facilitate changes at all scales of interaction - Transparent systems → Invisible systems - Public spaces → Service spaces - 'Natural' → Engineered	- Local shops → Larger Chain Stores
DYNAMIC EQUILIBRIUM	- Regulate CO (GHG) levels - Maintain harmonious balance between: - natural and constructed enviror ments - natural and constructed systems - Humans / plants / animals - Ensure local area flows positively contribute to systems of their larger regional context	Maintain harmonious balance between social systems and ecological systems Maintain harmonious balance between diverse demographics, tenures, and interests Respect the old (heritage, traditions, urban fabric, systems) and embrace the new.	- Inputs and Outputs of system flows must be balanced, and must contribute neutrally or (ideally) positively to systems of broader context [re: water, waste, energy materials, people, etc.]	
SELF SUFFICIENCY	Natural 'Nature' Man-Made Nature (i.e. self regulating systems > mechanically regulated ones) Prioritize optimized function > maximized function Decentralized (local) systems Centralized systems Cultivate synergies between social and ecological systems (local) community as integral part of natural world)	Community must allow all residents to meet hierarchy of needs (Psychological, safety, love/belonging, self esteem, self actualization) Je.g. 'Enabling Spaces' nurture individual health & social interaction) Bottom up governance structure Encourage diversity; yet maintain local identity, and establish local autonomy.	Prioritize optimized function > maximized function Decentralized (local) systems > Centralized systems = Redundant systems > Singular systems Redundant systems > Singular systems Diversity > Homogeneity Natural 'Nature' > Man-Made Nature' (i.e. self regulating systems > mechanically regulated ones) Innovation > Convention	(types, sizes, tenures) Provide incentives to encourage Local Markets - ↑ DCC's for ↑ Polluters & Chain stores Encourage innevation (by providing incentives to 'niche markets' compatible with pillars) Ensure taxation strategies adapt according to optimized performance of local systems

Appendix

Zoning Analysis

Performance Targets

					BURNABY STRATEGIES	
		PROVINCIAL STRATEGIES 2020	PROV 2050			PERFORMANCE INDICATORS
	PERF. TARGET	Performance Strategy	PERF.	PERF. TARGET	PERFORMANCE STRATEGY	
GHG	33%↓	Cathor Tax Crost Cap & Tade system "To meet its Climate action targets, the province must reduce emissions by another 9 million tons by 2020—over and above the initiatives in Phase 1 of the BC Climate Action Plan."	80%↓	NET ZERO To NET POSITIVE	Offset locally via IPZ (Interactive Performance Zoning _{nu})	- GHG
LAND USE		- 'Climate Action through Zoning'but they don't say how - Rights for municipalities to create new DPAs (as per Bill 27 - 'Green Communities Act') - Protect ALR		INTERACTIVE PERFORMANCE	PZ opposed to Euclidean	GHG H2O quality + quantity (i.e. infiltration rates) Air quality / Pollutants Food Production Conservation DPAs
TRANSPORTATION	10%↓ 2x MODE SHARE of cycling & walking	Monus intensity in Stepch ("Indeed to shead") approach—alse sits account if emission central public entails to use and production of help, and land-user changes that resid from Bothel production. I use and March and Rail transportation (possibly through only on the deviate changes that resident and the area of cycling and warking by 2000). 1.4 Billion pain to double trained redemity. * "Freight traffic accounts for > 50% of BC's transportation emissions." * "Bossenger vehicle traffic accounts for 37% of BC's transport emissions." * "Roinger proportion of truck trips thruthe Lower Mainland ports either enter or leave emity." Control of the control of truck trips thruthe Lower Mainland ports either enter or leave emity."	æ	80% ↓ Auto Dependency 100% ↓ Fossil Fuel Dependency	- Prioritiss poducion joint human soleid traffic over all other forms Re appropriate streets for people (not car) Rhas not spring Rhas not spring indicatesture Rhas not spring indicatesture Introduce later spring indicatesture Introduce later subset Fern ("Sea Bad") - Introduce later unban Fern ("Sea Bad") - Tax lens traveled according to CO_produced (sepponentially increase taxes on larger polluters)	- Pollutants (particulate, etc) - Noise (internetly of audio floror) - Speed (rates of flow) - Is measure for controling traffic volume - Transit referribly totals - Bake / Electric car communes useage
ENERGY	PROVINCIAL ENERGY INDEPENDENCE	Become Earpy independent via clean & renewable electricity generation (create surplus) Accelerate COX cyture & torouge Accelerate COX cyture & torouge rever Conservoir outlust new BC Blothergy Strategy	æ	LOCALLY ENERGY INDEPENDENT NET ZERO TO NET POSITIVE	End f provide incorrieux or locally sustainable alternative energies Encare in the local incorrieux or local incorrieux Encare in explaint to soft patterns of behavior across all scales Foregy & Economies based on Current Solar Income Human Power	Energy consumed Energy produced Sources of production (local v.s imported, sustainable v.s. non)
WASTE		End dependency on landfills for municipal solid waste ⇒ via pollution prevention hierarchy (Waste Management Plan)		ELIMINATE CONCEPT of WASTE	- Mandate Aggressive Integrated WMMF [i.e. IRM] - Cultivate (fund/ provide incentives for) - Local Consumption + - Local Reuse & 'Upcycling' - Local Consumption + - Local Reuse & 'Upcycling' - Local Consumption + - Local Reuse & 'Upcycling' - Local Consumption + - Local Reuse & 'Upcycling' - Local Consumption + - Local Reuse & 'Upcycling' - Local Consumption + - Local Reuse & 'Upcycling' - Local Consumption + - Local Reuse & 'Upcycling' - Local Consumption + - Local Reuse & 'Upcycling' - Local Consumption + - Local Reuse & 'Upcycling' - Local Consumption + - Local Reuse & 'Upcycling' - Local Consumption + - Local Reuse & 'Upcycling' - Local Reuse & 'Upc	Amount of solid waste to landfill (total & by sector)
INDUSTRY	REGULARLY ↑ CARBON TAX	- Tax Industrial Processes -> Reduce at refinery - Carbon Cap & Trade systembut no performance targets mandated	ANNUAL ↑ CARBON TAX	ALL INPUTS BALANCED WITH ALL OUTPUTS		Pollution Noise Odor Material flows
FOOD SECURITY		- Protect ALRbut no performance targets mandated		ALL INPUTS BALANCED WITH ALL OUTPUTS		Production levels Consumption levels
INFRASTRUCTURE		- Ensure federal+ provincial infrastructure funding directly tied to resiliency but no performance targets mandated		ALL INPUTS BALANCED WITH ALL OUTPUTS	Mandate Aggressive Integrated IRM Mandate Aggress	
FOREST SECTOR		- Include forests, land use, the forest product sector, biomerapy and other rememble wood-droven bio-products in the government's charate action strategy - Net Zero Deferestation - Theses for Temorrow but no performance targets mandated	NET ZERO	CO ₃ , ABSORBED > CO ₃ , RELEASED	Recognize natural forests as carbon sinks Create new DMs for conservation and reforestation Create new DMs for conservation and reforestation	
COMMUNITIES		- 'Forests for Tomorr - Create 'regulatory regime' that encourages compact, smart community 'SiglioEnergy Strategy ** Green Communities legislation (Bill 27)	ow'	SENSE OF PLACE SENSE OF IDENTITY LOCAL AUTONOMY		Health Happiness
EDUCATION		- Educate citizenry re: Importance of climate change and how their actions lead to + or - importance or or - importance or - importance or - importance climate losses into curricula for grades K-12 - locorporate climate losses into curricula for grades K-12 Use museums, libraries and online social marketing tools to involve youth in climate action. but no performance targets mandated.		PARADIGM SHIFT INVOLVING 100% OF LOCAL POPULATION	Sostalrability centric currouls in 6.12 Emphasis on the being learning Fruiding to close learning and enchange of ideas as community condenser—funding allocated to Fruiding to cultivate learning and enchange of ideas as community condenser—funding allocated to Fruiding to condense learning and enchange of the second	Test scores Percent of behavioral changes
ECONOMY		- 'Niche-market regulation' - New financing mechanisms for residential and commercial retrofits: - Rew financing mechanisms for residential and commercial retrofits: - Funding for fact remodals technologies in bidgs: *Restructuring Property Tax assessments to provide incretives for energy efficiency and onsite district removable energy - Carbon Tax = 305/fone (Carbon Tax (alone) = 3 million tones 4)		LOCALLY SELF SUSTAINING	Registed support for Local businesses and boul markets Registed segon for Nach destined: Registed segon for Nach destined: OPTRACT performance as all cales: Obtacle local systempts Coencepts investion:	# of Local jobs Amount of local imports Amount of local exports
BUILDINGS	Some NET ZERO	All publically funded buildings Net Zero by 2016 All new construction Net Zero by 2020 Update Green Building Code every 3 years (min)	Some more NET ZERO	ALL NET ZERO to NET POSITIVE	All new construction Net Zero to Net Positive All new renocations, fertofits Net Zero to Net Positive Use 'Interactive Performance' to balance inputs & outputs of rest of urban fabric	Material flows Building lifecycle Energy modeling Commissioning

Zoning Analysis 2030 Challenge



"The independent Stern review estimates that **failing to act on climate change could result in costs and risks equivalent to losing 20% of global GDP**. By contrast, the report says that **the cost of early action can be limited to about 1% of GDP**."

"In April 2008, Stern further strengthened his earlier conclusions by noting that the Stern Review had 'badly underestimated the degree of damages and the risk of climate change' and clearly demanded immediate action."

[from the BC Climate Action Plan Report, July 2008]

Appendix

Zoning Analysis

Typology	DENSITY/INTENSITY	SETBACKS & E HEIGHT	BLDG TEMPORAL INTENSITY	BYLAW REQUIREMENTS (Permitted Uses, Conditions of Use, etc.)	Typ. Design Requirements
CD - COMPREHENSIVE DEVELOPMENT	Provides for the development of an area embi Any permitted uses shall conform to the regul a desirable and stable environment in harmony Exceptions may be permitted[provided that	racing one or more land ations and intent of the E with that of the surrou	use classifications as an integrated unit b Districts in which they are normally permit nding area.	ased upon a CD plan. ted, provided that all buildings ,uses and their densities shall be compatible with abutting land uses and provide	REQUIREMENTS
R – RESIDENTIAL (SINGLE FAMILY)	Typical densities of 2.5 – 8 du/acre (SmartGrowth recommends 16du/acre)		- Human flow patterns vary w/ demographic/employment, etc. - Material flows on (bi) weekly cycle (i.e. garbage, recycling) - generally \(\) activity from 10pm - 6am		- need interconnected street network to be efficient - require access to (private) outdoor play space - generally perform poorly on transit-supportive objectives (barely support 2 busses/hour)
R – RESIDENTIAL (WITH COACH HOUSES)	Single family area of 3.5 – 8 du/acre can often [†] denuity by 50%		- similar human and material flows as above but with ↑ intensity - can marginally ↑ activity between 10pm – 6am		housing diversity over SF affordability over SF support for transit service over SF yet allow scale and character of neighborhood to be kept Ability to preserve heritage housing forms with 2x or 3x density (refer to Vancouver RT-6,RT-2,RT-10 zoning)
RM – MULTI-FAMILY (GROUND-ORIENTED)			- highest flow volumes in rush hr OR not, (depending on users) - similar human and material flows as above but with 1 intensity - can marginally 1 activity between 10pm - 6am	Duplexes/ four plexes Row houses Stacked townhouses	- good for supporting nearby shopping areas and transit with freq.of 20 min or less (3-4 buses /hr) - Can be built by large or small developers. - ↑ energy efficiency than SF
RM – MULTI-FAMILY (VERTICAL - HD)			- highest flow volumes in rush hours - human and material flows greatly ↑ in intensity and frequency - can support noticeable ↑ in nocturnal activity	- Apartments - Towers	- good for providing affordable rentals (sometimes) - can support † transit - can be 30% energy efficient - concrete construction † economical after 8 storeys - can create impeding disconnect between inhabitants and public realm (but this depends on design, location, and quanti
C1 – Neighbörhödd Commercial	Provides for the convenience shopping of persons residing in the adjacent residential areas and permits only such uses as are necessary to satisfy those limited basic shopping nedownkin occur daily or frequently (therefore Fequire Shopping facilities in close proximity to dwellings)	Front Vard: min 9m Side Vard: ea side min. 2m, corner side min. 4.5m Rear Yard: min 9m		Permitted uses: - Banks - Shopping Centres - Business and professional offices - Cafes or restaurants - gasoline service establishments including: - Personal service establishments including: - Person	
CZ – COMMUNITY COMMERCIAL	Provides for daily and occasional shopping needs of residents of several neighbor-hoods - Min lot area = 560m² - Min fot owerth; 15m - Min fot coverage = 50% for area - Max PAR = 1.00 Max bidg height = 12m nor 3 storeys - 3" storey of any bids setbuck a min of 3m from 2" storey façade (of front &rear)	- Front Yard 2m - Side Yard: min. 3.5m, except where abuts A. R. RM for or sep. by street OR. land, side yard not less than abutting lot (but > 3m) - Rear Yard: min 3m or 6m (if next to A.R. RM)		Uses permitted: Animal hospitals Animal hospitals Bottle return centers Business and professional offices Clubifyloliges Gas stations Every use shall be conducted w/in completely endosed building, except for: parking, gas services, outdoor produce inhom/gandem shapp, outdoor reading at cafes No residential No residential No residential Trinciple uses shall be orientated to pedestrian needs and located/designed to avoid vehicular interference w/ pedestrian movement	

Appendix

Zoning Analysis

Existing Burnaby Zoning Districts

C4 – SERVICE COMMERCIAL	Provides for accommodation of vehicular oriented commercial use of low intensity, and for commercial uses requiring large areas for storage and handling of materials, goods, and equipment [i.e. favors auto-orientated, 'big box', and opaque opperations] - Max lot coverage = 50% - Every use shall be conducted w/in completely endosed building, except for clapby, refatal/sales /storage yards, parking,	Max height = 9m - Front Yard: min 2m - Side Yard: Om 3m on corner lot 6m adj AFR/RM/P5 - Rear Yard: 3m 6m next to A/R/RM		Uses permitted: - Animal hospitals, training/daycare, salons - Animal hospitals, training/daycare, salons - Anto showcoms, service & repair, retail - Bands - Bands - Body nub salons - Body nub salons - Bodite return centres - Bodites return centres - Bodites sations - Bodites sations - Carder/festaurarts - Carder/festaurarts - Commercial nurseries & generhouses - Commercial nurseries & generhouses - Commercial nurseries & Carder/festaurarts - Carde	
C5 - TOURIST COMMERCIAL	gas stations, outdoor seating cafes			or for which had been as to the first of the	
C6- GASOLINE SERVICE STATION	Provides a rational pattern of service station outlets to adequately SETVE the requirements of the Municipality in harmony with surrounding developments - Max lot cover =30% - Min with = 30m - Min area = 110m ²	Max height = 6m - Front Yard: 6m - Side Yard: = to adjacent (max 3m) Or 6m if corner lot - Rear Yard: 3m or 6m if abuts A.R.RM		Permitted uses: - {Exoctly as it sounds}	
C7 - DRIVE-IN RESTAURANT	Obsoliste—for our purposes				
C8 – Urban Village Commercial (Hastings)	Provides for wide range of commercial and retail establishments with medium density multiple family dwellings located above the business premises - Cli lots intended as one commercial per Hattings street Area Plan - Clis lots as son-comper HSAP - Max lot area 33 Zmp 2 - Min lot drea 33 Zmp 2 - Min for the Max (The Table of the Same Area 20 - Max frontage of 1° storey bidg occupied by individual user: 15m for CS /20m for CS	Max Height - 18m or		Permitted uses: - Banks I.2* storey frontage max 4.5 m wide) - Bunks I.2* storey frontage max 4.5 m wide) - Caller/setsurants - Commercial schools - Dwelling units on second floor: - above first storey - a must have: - balcomy - 1 parking space, - completely separate public entrance - Storey containing dwelling units to have no other uses on that storey except parking [why is auto storage/display more compatible than spaces for social interaction/commerce?]	**Bentage structures can form the heart of a community - Can turn into 'bourdque' commercial/mixed use - Demolition controls may be required along with highly flexible roning to permit creative land uses - big box (formula developers) can be persuaded to change approach if strong urban design vision exists to persuade them OR can refuse large format retail. Problems incl: - Excessive parking - Poor public/pedestran realm
B1 – SUBURBAN OFFICE	Charlete - for our purposes				
B2 - URBAN OFFICE	Gbusints—for our pursioner:				- Office parks create enormous traffic problems & land use pigs
A1 – AGRICULTURAL	Provides for farming, truck gardening, orchand or nursery cultivation, greenhouses and similar [i.e. FOOD PRODUCTION] - encourages holding of land in large parcels - Min for area = 2ha, min width of 91m - Max residential density of 0.60 FAR	- Front: min 9m - Side: ea. side min. 4.5m - Rear: min 9m	Agricultural uses imply main activity during daylight hours Animal keeping will require 18hr.	Uses permitted: - single family dwelling - single family dwelling - shennel, kennel + animal beauty parlor, riding academies, keeping of bees, cows, goats, horse, etc. [provided all areas min 2.4.5m from all street or lot lines, and min. 9m from du on same lot], - mushrm growing, peat processing, - erenters for collection/storage/grading / crating/p/ging of fruity or vegs (not canning or processing), - larmers markets for realit alle - Roadside stands for retail groduce sale prohibited	
A2 – SMALL HOLDINGS	Provides for residential uses desiring large outdoor areas, and for the maintenance of larger parcels of land for possible future development.	Front: min 9m Side: ea. side min. 3m, corner lot min 4.5m Rear: min 9m	- Aninia keeping will require 2001 days-f-	Uses permitted: - single family dwelling - Farming, orchard/mursery/greenhouses - Home occupation - Remels, riding academies, kreping of coxes, goats, horses, sheep (provided all areas min 24.5m from all stree or list lines, and min. 9m from duo on same lot) - Reeping pigeons or pourtly for demested: use - Accessory buildings & uses, BUT roadside stands for retail produce sale prohibited	

4:27

Zoning Analysis

M3 - GENERAL INDUSTRIAL Min lot areas - some of M2 - Max lot cover + 60% - Max lot cover + 60%					
M2 - GENERAL INDUSTRIAL M3 - HEAV INDUSTRIAL M3 - SPECIAL INDUSTRIAL M4 - SPECIAL INDUSTRIAL M5 - LIGHT INDUSTRIAL M6 - SPECIAL INDUSTRIAL M7 - SPECIAL INDUSTRIAL M8 - SPECIAL INDUSTRIAL M	M1 - Manufacturing	manufacturing uses under conditions designed to minimize conflict with surrounding uses. - Max lot cover =50% - Min lot area: 930m2	Front: 6m (except 9m across street from R/RM) Side: 3m OR 0 if not beside lane or A/R/RM OR 4.5 if corner lot Rear: 3m OR 9m if	- Manufacturing/dying/finishing of textile products - Manufacturing of furniture and fixtures - Manufacturing of strong of bicycles, etc Manufacturing of articles prepared from glass and ceramic material - Printing/publishing/book binding - Storage building/yards, mini-warehouses - Agriculture uses - all permitted uses within enclosed bldg (except for : agriculture, outdoor display, rental, sales/ storage yrds, pkg) - Nothing which can or will become an annoyance or nuisance to surrounding areas (re: uply, emissions, effluents, dust, fumes, smoke, wibration, noise, anything that	Require medium to large areas of land for manufacture / storage (amt. depending on type) typically low customer volumes Running at night could offset energy
Provides for the accommodation of special types of industry and heavy industrial activities. Amustature of demainiery Manufacturing of mode and provides for the accommodation of light industrial use, encourages a high standard of development and is particularly designed to be located adjacent, or in close proximity to residential areas with a minimum of conflict. MS - LIGHT INDUSTRIAL Provides for the accommodation of special segments and to define abusts A,R,RM) MS - LIGHT INDUSTRIAL Provides for the accommodation of special segments and to define abusts A,R,RM) MS - LIGHT INDUSTRIAL Provides for the accommodation of light industrial suse, encourage a high standard of development and is particularly designed to be located adjacent, or in close proximity to residential areas with a minimum of conflict. MS - LIGHT INDUSTRIAL MS - LIGHT INDUSTRIAL Provides for the accommodation of light industrial area with a minimum of conflict. Min tot area = some at M1 of definition and to the some as M1 to definition and to th	M2 - General Industrial	manufacturing uses under conditions designed to minimize conflict with surrounding uses. - Min lot area = some as M1 - Min width = some as M1	storeys - Front: 6m deep except 9m across street from R/RM - Side: 3m OR Om if not beside lane or A/R/RM OR 4.5 if corner lot - Rear: 3m OR 9m if adj, A/R/RM	Permitted uses: including Production of specific textiles Production of specific textiles Production of specific textiles Production of specific textiles Production of specific fabricated metal products Wedding shops less than Somol' in gross floor area Wedding shops less than Somol' in gross floor area Wanufacture of electrical equipment Production of specific fabricated metal products Cafe/restaurants for indus workers Cafe/restaurants for indus workers Cafe/restaurants for indus workers Indoor athletic recreation Indoor athletic recreation Production of the pro	Need to be careful about adjacencies Involve little communing traffic (due to low employment densities and few – no customers) Require large areas of land and are very sensitive to land costs (purchase and taxation rates) Require easy highway and/or rail/marine access (i.e. freight
Provides for the accommodation of light industrial use, encourages a high standard of development and is particularly designed to be located adjacent, or in close proximity to residential areas with a minimum of conflict. MS - LIGHT INDUSTRIAL MS - LIGHT INDUSTRIAL Max height = 12m / Front: 9m / Side: 6m / Or Off front beside AR,RM and other side yaim in 6n / AR and in 6n / AR and other side yaim in 6n /		types of industry and heavy industrial activities. - Min lot area = same as M1 & 2 - Min width = same as M1 & 2	stories - Front: 6m deep (except 9m across street from R/RM) - Side: 3m / 0m / 4.5m / 6m	- Drive-in theatres - Manufacture of machinery - Sale and repair of machinery - Meding shops - Weiding shops - Manufacturing of wood & paper products - Manufacturing of textiles - Manufacture of electrical equip - Manufacture of electrical equip - Indoor athletic recreation	networking (INDUSTRIAL ECOLOGY) are emerging set of practices for making
to form integral part of principal building (to be incl in plans thereof) to be fully separated from industrial use by walls, partitions or a floor to be provided with an entrance separate from that of industrial use to have max floor area of 56m2 (600 cmt)	M5 - Light Industrial	industrial uses, encourages a high standard of development and is particularly designed to be located adjacent, or in close proximity to residential areas with a minimum of conflict. - Min lot area = some ss M to 4 - Min width same as M to 4	- Front: 9m - Side: 6m Or 0m if not beside A,R,RM and other side yard min 6m - Rear: 6m (except 9 m where abuts	Laboratories Laundries Nurseries and greenhouses Radio & tv broadcasting Sale/rental/repair of equipment Trade schools Business & professional offices Rehearsal & production studios Manufacturing / frienting/canning of foods Manufacturing / frienting/canning of foods Manufacturing frienting/canning of foods Manufacturing frienting/canning of specific testiles Manufacturing frienting of specific testiles Manufacturing frientiture products Living accommodation (or caretaker/watchman (if essential to operations) Requirements for living accommodations: Located within a new principle bidg with new permitted industrial use, on lot with min area of 0.8ha for max 2 adults to form integral part of principal building (to be incl in plans thereof) to be provided with an entrance separate from that of industrial use	spaces - Tend to have steady traffic (due to medium employment densities + flows of customers & suppliers) should be located along convenient transit lines - Such areas depend on a range of floor
M6 - TRUCK TERMINAL Obsolete - for our purposes	M6 – TRUCK TERMINAL	Obs	olete – for our purposes	- Salar Consulty	

Zoning Analysis

M7 – Marine 2	Froudes for the regulation and location of water-oriented uses and related activities in proper relationship to surrounding development	All Yards. Gn OR On where abuts another M7 lot	Fire and police boat facilities and radar installations Manufacturing, assembly, finishing, retail sale or repair of boats not greater than 15.0 m Manufacturing, retait, repair and sale of marine sporting goods and equipment Marinas for the accommodation of commercial boats, which may include such related use administrative offices, cafeteria services, recreational lounges Marine fueling installations Marine research laboratories Marine surveying and engineering offices Marine surveying and engineering offices Marine towning and tuploats services and installations Seaplane monoring facilities and installations Valver taxis The Storage of petroleum products in areas having an M7a designation, provided that so use is located 8.1 m or more from the pointing boundary of an A2, R. or RM District Accessory buddings and use, including: - internal display, internal storage and internal retail sale of goods produced /stored site Breakwaters, docks, floating boat shelters - Living accommodation for a caretaker or watchman (to be located within, and form a integral part of the principal buildings and to be included in the building plans)	.h m
P1 – NEIGHBORHOOD INSTITUTIONAL	Provides for the acommodation of residentially oriented institutional uses at a scale designed to serve a residential neighborhood.	Max height = 12m/2storeys - Front: 7.5m OR 9m where abuts R1 - Side: 4.5m - Rear: 9m	Permitted uses: - Places of public worthip - Child care facilities - Dwelling unit for minister/caretaker Conditions of Uses: - Playgrounds shall be enclosed by fencing/screening on any side not facing principle building - All principle uses shall be oriented to pedestrian needs and be so located/designed as to avoit well-fucilar interference with pedestrian movement	
P2 – ADMINISTRATION & ASSEMBLY			Permitted uses: Assembly, cultural and recreational facilities, including armouries, art galleries, auditorius coliseums, community centres, cultural centres (art, drama and music), curling rinks, gymnasius meeting, halls, museeums, public libraries, stating rinks and arenas, stadiums, swimming pools at theatres (sexulaing drine-in theatres) Offices of municipal, provincial and federal governments Telephone exchanges and similar public utilities, provided they are housed completely within an enclosed buildit Accessory buildings and uses, including restaurants and business and professional office: Antenna developments not included in section God driving ranges Health centres and clinics Places of public wornhip Public guild for minister or caretaker) Public public for minister or caretakery Public transportation centres	s, id
P3 – PARK & PUBLIC USE	Provides for the location, preservation and development of public land to serve the educational, park and recreational needs of the Municipality - Min lot area a none specified - Min width = specified - Max lot coverage = 30%	- Front: 6m - Side: 6m - Rear: 9m	Permitted use: - Assembly, cultural facilities - Recreational facilities - Arboreta, botanical gardens, etc Public playfields - Public schools - Public libraries - Public libraries - Public libraries - Conditions of Use: All principle uses Shall be oriented to pedestrian needs and be so located/designed as to avoid vehiculinteference with pedestrian movement.	
P4 – CEMETERY	Obsolete – for our purposes		писы и се стан решега или писуеписи.	
P5 – COMMUNITY INSTITUTIONAL	Provides for accommodation of residentially- orientated incittuitoral uses at a scale designed to serve an area composed of a number of residential neighborhoods - Min lot area = none specified - Min width = none specified - Max lot coverage = 40% (30% for private schools/children's institutions)	Max height: 12m/2storeys - Front: 7.5m OR 9m where abuts R1 - Side: 4.5m OR 7.5m for schools - Rear: 9m OR 15m for private schools	Permitted uses: - Children's institutions - Places of public worship - Places of public worship - Child care facilities - Rest homes, private hospitals - Private elementary/secondary schools - Private elementary/secondary schools - Supportive housing Conditions of Use: All principle uses Shall be oriented to pedestrian needs and be so located/designed as to avoid vehicu interference with pedestrian movement	Community & Recreational Facilities: - Provide key community asset that contributes to health and good quality life - Significant demand for off peak hours

Zoning Analysis

PROMOSE for the Journal of Institutional Law of Ins
PRECIONAL INSTITUTIONAL PRECIONAL INSTITUTIONAL PRECIONAL INSTITUTIONAL PROVIDES for the location and regulation of special institutional uses of a Charitable correctional, philanthropic, rehabilitative or religious character Ans bit overage = 30% Ans bit overage = 30% Provides for the location and regulation of parking grazes and parking grazes on individual sites in proper relationship to adjacent land uses PRECIONAL INSTITUTIONAL PROVIDES for the Coverage = 30% (max building grazes on individual sites in proper relationship to adjacent land uses Provides for the development and regulation of parking grazes and parking grazes on individual sites in proper relationship to adjacent land uses Provides for the development and regulation of parking grazes, which are of a character displayed in the coverage = 50% (max building grazes) And safe overage = 50% (max building coverage = 20%) And
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P7 — SPECIAL INSTITUTIONAL Provides for the location and regulation of special institutional tase of a charitable, correctionally, philanthropic, rehabilitative or religious character
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Provides for the location and regulation of special institutional uses of a charitable, correctional, philanthropic, rehabilitative or religious character - Max iot coverage = 50% District provides for the location and regulation of parking garages on individual sites in proper relationship to adjacent land uses Max lot coverage = 50% (max building coverage 19m' Provides for the development and regulation of water-oriented uses. Provides for the development and regulation of water-oriented uses. Provides for the development and regulation of water-oriented uses. Provides for the development and regulation of water-oriented uses, which are of a character designed to ensure a lipit degree of compatibility with adjacent or nearby public recreational or recollected areas or received areas or received areas or received areas or received as the sum of the provides for the development and regulation of water-oriented uses. Provides for the development and regulation of concerns a lipit degree of compatibility with adjacent or nearby public recreations or received areas or received areas or received as the sum of the provides for the development and regulation of water-oriented uses. Provides for the development and regulation of companies and recreational or received areas or received areas or received as the sum of the provides of the development and regulation of water-oriented uses. Provides for the development and regulation of water-oriented uses. Provides for the development and regulation of water-oriented uses. Provides for the development and regulation of water-oriented uses. Provides for the development and regulation of water-oriented uses. Provides for the development and regulation of or district areas or received as the sum of the provides of the provid
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Provides for the development and regulation of water-oriented USES, which are of a character designed to ensure a high degree of compatibility with adjacent or nearby public recreational or residential areas Max height: 12m / 3 storeys - Hotels - Marina's for the accommodation of pleasure and recreational boats, which may include such related uses as administrative offices, cafeteria services, recreational lounges; the retail sale of marine supplies, equipment and sporting goods, and boat motor repairs (provided that such repairs are limited to motors of not more than 130 kw) - Private recreational, yearth and boating dubs - Private recreational valued and boating dubs - Private recreational valued and boating dubs - Private recreational value and private recreational points and private recreational value and private recreational values as administrative offices, cafeteria services, recreational boats, which may include such related uses as administrative offices, cafeteria services, recreational boats, which may include such related uses as administrative offices, cafeteria services, recreational boats, which may include such related uses as administrative offices, cafeteria services, recreational boats, which may include such related uses as administrative offices, cafeteria services, recreational boats, which may include such related uses as administrative offices, cafeteria services, recreational boats, which may include such related uses as administrative offices, cafeteria services, recreational boats, which may include such related uses as administrative offices, cafeteria services, recreational boats, which may include such related uses as administrative offices, cafeteria services, recreational boats, which may include such related uses as administrative offices, cafeteria services, recreational boats, which may include such related uses as administrative offices, cafeteria services, recreational boats, which may include such related uses as administrative offices, cafeteria services, recreatio
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USES, which are of a character designed to ensure a high degree of compatibility with adjacent or nearby public recreational or residential areas Front / Rear / Side y administrative offices, cafeteria services, recreational lourges; the retail sale of marine supplies, equipment and sporting goods; and boat motor repairs (provided that such repairs are limited to motors of not more than 190 kw) Private recreational lourges; the retail sale of marine supplies, equipment and sporting goods; and boat motor repairs (provided that such repairs are limited to motors of not more than 190 kw) Private recreational lourges; the retail sale of marine supplies, equipment and sporting goods; and boat motor repairs (provided that such repairs are limited to motors of not more than 190 kw) Private recreational lourges; the retail sale of marine supplies, equipment and sporting goods; and boat motor repairs (provided that such repairs are limited to motors of not more than 190 kw) Private recreational lourges; the retail sale of marine supplies, equipment and sporting goods; and boat motor repairs (provided that such repairs are limited to motors of not more than 190 kw) Private recreational lourges; the retail sale of marine supplies, equipment and sporting goods; and boat motor repairs (provided that such repairs are limited to motors of not more than 190 kw) Private recreational lourges; the retail sale of marine supplies, equipment and sporting goods; and boat motor repairs (provided that such repairs are limited to motors of not more than 190 kw) Private recreational lourges; the retail sale of marine supplies, equipment and sporting goods; and boat motor repairs (provided that such repairs are limited to motors of not more than 190 kw) Private recreational lourges; the retail sale of marine supplies, equipment and sporting goods; and boat motor repairs (provided that such repairs are limited to motors of not more than 190 kw) Private recreational lourges; the retail sale of marine supplies, equipment and sporti
A Yards: 0m, except that no residential areas a goods; and boat motor repairs (provided that such repairs are limited to motors of not more than 190 kw) - Private recreational, yacht and boating clubs - Restaurants Accessory buildings and uses, including:
adjacent or nearby public recreational or residential areas setback shall set of the control of
SETDACK STAIL Accessory buildings and uses, including:
Accessory buildings and uses, including:
Max lot coverage = 30% of land / 20% of be required on - Boat hoists, breakwaters, floats, launching ramps, piers and wharves, and other similar facilities related to the
water surface any portion of mooring, handling and storage of boats
the let which - Bost rental establishments
- One dwelling unit for a caretaker or watchman in conjunction with a marina, yacht or boating club.
adjoins or - Marine fuelling installations / Water taxis
abuts the High All permitted uses .All permitted uses completely within an enclosed building, except boat hoists /launching ramps
P9 - MARINE 1 Water Mark Any part of the land area of the lot which is not occupied by buildings, parking or loading facilities, driveways, pedestrian
[i.e. no consideration for riparian areas / costal interface nor for sea walks, boat hoists or launching ramps shall be fully and suitably landscaped and properly maintained.
and start
reaction screening to a neight of not less than 2.5 in shall be provided and properly
maintained along the boundary of a lot which abuts a lot in an A, R or RM District, or is separated by a street or lane
to separateu by a surget of lating

Appendix

Zoning Analysis

Alternative Zoning Gradation

Interactive Performance Zoning™

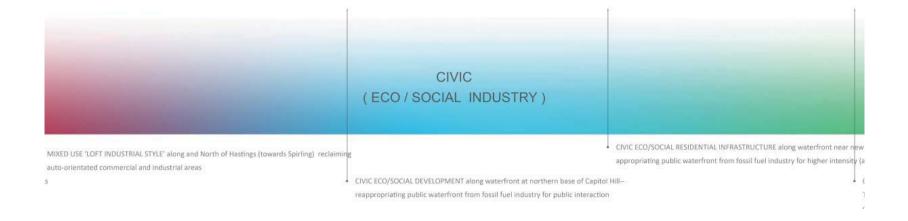


Appendix

Zoning Analysis

Alternative Zoning Gradation

native zoning - gradiation InFlux



Appendix

Zoning Analysis

Alternative Zoning Gradation

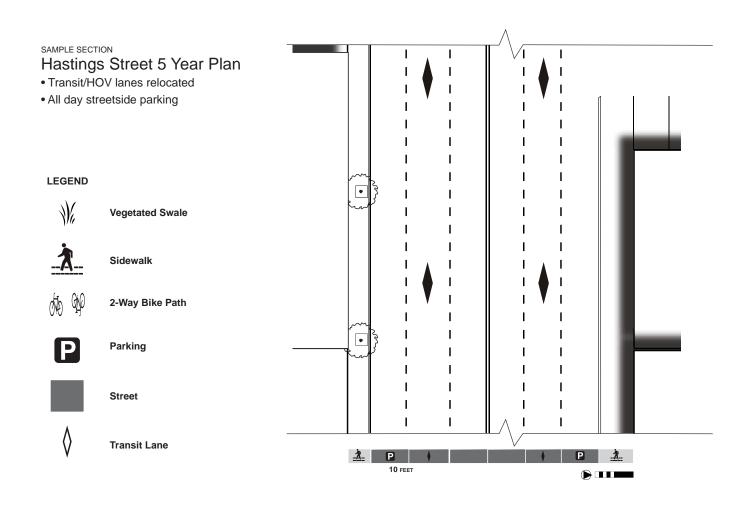


r Ferry Station (near end of Willingdon)—reand more synergistic) social functioning

CIVIC ECO/SOCIAL RECRE/EDUCATIONAL INFRASTRUCTURE on remediated industrial lands near Eastern Rail Terminal—reappropriating green systems from fossil fuel industry for education, recreation, conservation and celebration

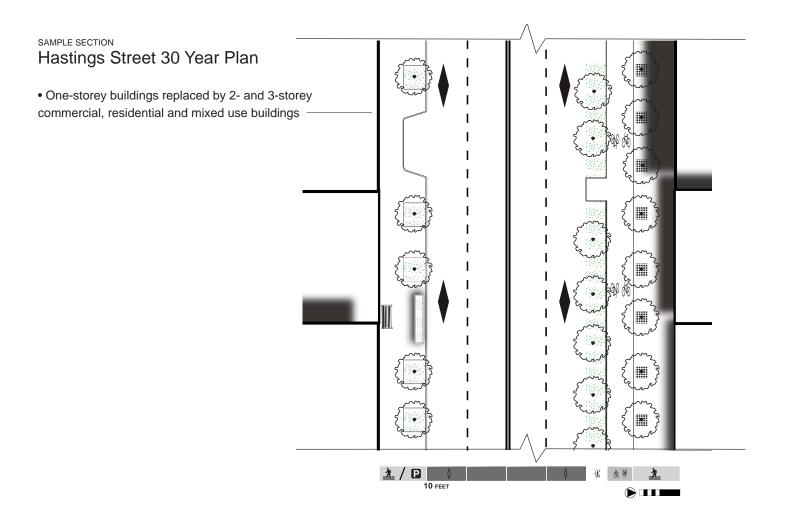
Appendix

Street Phasing



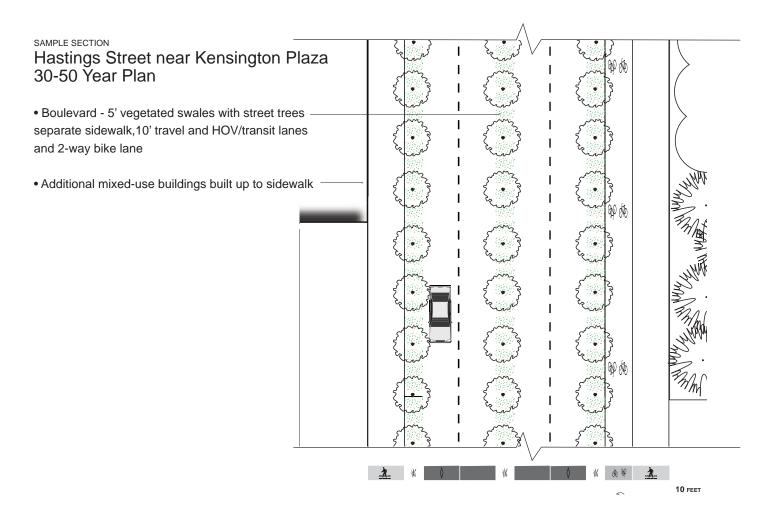
Appendix

Zoning Analysis



Appendix

Street Phasing



Appendix

Zoning Analysis

