680 PINE | DESIGN RATIONALE /PROJECT DESCRIPTION

June 17, 2021

Four separate residential buildings have been designed as a housing solution based on the buyer demand for more private compact single detached houses with individual outdoor space. This design is focused on creating a small community in keeping with the traditional neighbourhood characteristics of 'Nanaimo's Old City Multiple Family Residential Design Guidelines'.

This site design has four individual residential units with parking located at the rear of the site, accessed by the lane. Two of the units are oriented towards Pine Street with entrance porches facing the road, while the other two units are oriented parallel to Pine street to optimise the efficiency of the site.

Neighborhood/Site Context

- This site is located on Pine Street, set along other residential buildings
- In accordance with Appendix B, part 4: 'Neighbourhood Character' of the 'Old City' guidelines, this development retains the residential character of the neighbourhood through:
 - o Traditional pitched roof single family housing form
 - Ground floor private access to the individual dwellings
 - o Formal front and rear yards for the individual units
 - o Consistent building siting similar to neighbouring houses
 - Similar building height to neighbouring buildings
 - Parking access from the rear lane

Design Concept

- Design focusses on maximising light and space for the four dwelling units
- Varying architectural elements have been utilized on the faces of the building to create scale and interest
- Individual dwelling units have compact private outdoors spaces to encourage families with children / pets
- Common community amenity space provided at the rear of the site
- Parking access proved from the rear lane
- Trash access provided from the rear lane

Character & Form

- The design utilizes multiple sloped roofs at varying heights with the idea of blending in with the neighbouring buildings.
- Different colour combinations were used as a unique identifier for each residence in the complex
- The sides of the building have been retained as relatively flat surfaces to maximise the
 efficiency of the interior of the units due to the narrow site dimension but broken up into
 different textures and colours to add scale and interest.
- Heavy trim around the rectangular windows

• Vinyl siding (lap, board and batten, shingle) will be used to create patterns and interest and a residential character.

Proposed Building Design

- 4 individual units designed in 4 separate buildings to maximise light within units and provide private outdoor space
- Additionally, common space provided at rear of the site
- All units have living, kitchen and common spaces at the ground level and bedrooms located at the second level
- Trash area located away from the lane and screened to match fencing
- Parking area fenced and landscaped from neighbouring properties

Variances Requested

Trellis

Variance Requested:

Height Variance, front trellis 1.5 m (Allowable 1.2 m; provided 2.7 m) Height Variance, side trellis 0.3 m (Allowable 2.4 m; provided 2.7 m)

<u>Rationale</u>: The front Trellis' serve as an identifier to locate the entry point to the site for the front units and the path to the side units. As this proposal has 4 buildings, and 2 of the buildings can be accessed from the street, this trellis serves as a wayfinding feature to guide pedestrians to the back buildings. Additionally, it serves as a traditional architectural feature, visible from the street, in keeping with the 'Old City Design Guidelines'.

The back trellis serves as a feature to camouflage the trash area from the neighbouring lots as well as from the parking area on site.

Parking

Variance requested:

Small Car to Standard Car ratio (20% variance)

<u>Rationale:</u> The total parking requirement of 5 cars has been met for this proposal. The variance request is for the ratio of small car to standard car. In this case the ratio of 60%; 40%. (i.e., 3 small car and 2 standard car) has been provided compared to the 40:60 requirement. Considering the narrowing of the site at the rear and the need for a rock pit at the back of the site, this ratio provides the maximum numbers of car spaces within the usable space.

<u>Vinyl Siding:</u> We are not proposing the use of "ordinary vinyl siding". We believe that the combined use of painted combed Pine wood trim and the exquisite style, exceptional strength, and durability of Sequoia Select ultra-premium vinyl siding provides a classic Craftsman inspired look, exceptional durability and a greatly reduced carbon footprint when compared to other types of siding products.

- ✓ The horizontal cladding in our design is vinyl siding. By choice we use Sequoia Select, which is a substantial improvement over the traditional vinyl siding used elsewhere. This product's extraheavy wall thickness greatly enhances rigidity and stability.
- ✓ It has much deeper color pigmentation which provides for a sense richness and warmth.

- ✓ Each panel is solid colour throughout, as such it won't chip, flake or blister like painted surfaces.
- ✓ A 3/4" full lap height creates a deeper dimensional look and enhanced shadow lines for a true wood-like appearance.
- Cedar grain emboss provides for natural appeal, excellent durability and reduced exterior maintenance as it never needs to be painted and will not warp and twist like wood.
- Reduced impact on global warming as vinyl siding has 79% less impact than fiber cement cladding and 85% less than brick and mortar.
- ✓ Pine Wood Trim all facia, belly bands, barge boards, gables, corner, doors and window trimmers are trimmed out in painted combed Pine wood boards.

COMPARE VINYL SIDING WITH OTHER TYPES OF CLADDING

VINYL SIDING

VS

BRICK & MORTAR

VINYL SIDING

VINYL SIDING

VS

BRICK & MORTAR

NORTAR

Total Analysis using Building for Environmental and Economic Sustainability (BEES)* Online software.

Vinyl Siding vs. the Competition

Throughout its life cycle, vinyl siding has 79% less impact on global warming than fiber cement and 85% less impact than brick and mortar.

(source: https://www.vinylsiding.org/vsi-resources/sustainability/)





Images are successful examples of Sun Porch Projects the vinyl siding application.

<u>TURF:</u> It is not our intent to use AstroTurf. AstroTurf is a proprietary artificial grass product that has been around for 50 years now. In the beginning, it was nothing more than a thin green carpet, first prototyped in the Houston Astrodome in the 1970's. That is AstroTurf.

Over the past decades, both the materials and the technology have evolved to the point that today's artificial grass is cleaner and greener than ever.

It is our intent to use a product called Bella Turf (or equivalent).

The main ecological benefits of Bella Turf artificial grass are:

- 1. Water conservation;
- 2. Reduced fossil fuels from moving and maintenance;

- 3. The elimination of noise pollution from the use of gas-powered trimmers and lawn mowers;
- 4. Reduced chemical input into the earth's water table from harmful fertilizers, pesticides and herbicides.

Bella Turf has supplied millions of square feet of artificial grass Canada wide for both residential and commercial applications. The benefits of artificial grass span much farther than the key ecological benefits.

- 1. The greening and durability of plant material here in BC is quite seasonal.
- 2. Natural lawn and various plant materials can lack durability due to heavy foot traffic, use from pets, the European chaffer beetle and water restrictions.
- 3. Rain-soaked artificial grass will remain free of standing water even in the wettest climates as Bella Turf products have a vertical drainage system that creates more efficient water retention than natural grass and significantly reduces storm water runoff.

CONTEXT MAP





LOCATION PLAN



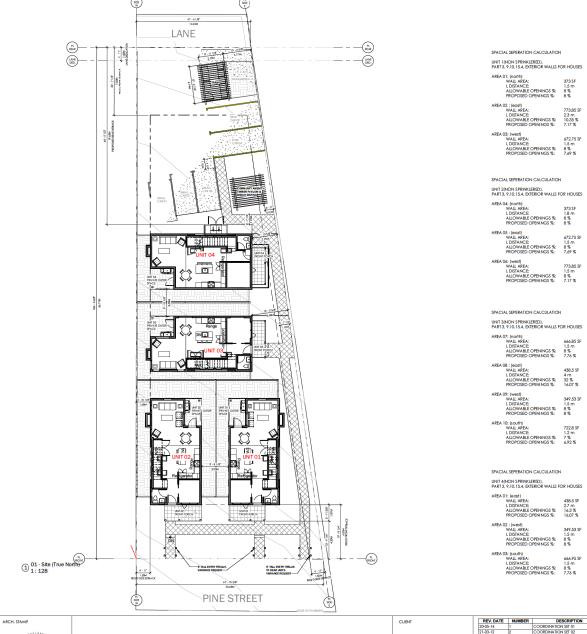


DEVELOPMENT PERMIT APPLICATION NO. DP001240

CIVIC: 680 PINE STREET

LEGAL: LOT 1, SECTION 1, NANAIMO DISTRICT, PLAN 2530

Subject Property





SITE PLAN



JOYCE REID TROOST ARCHITECTURE 2515 GLENAYR DRIVE NANAIMO, BC V9S 3R9

joyce@jrtarchitecture.com 250.714.8749 jrtarchitecture.com



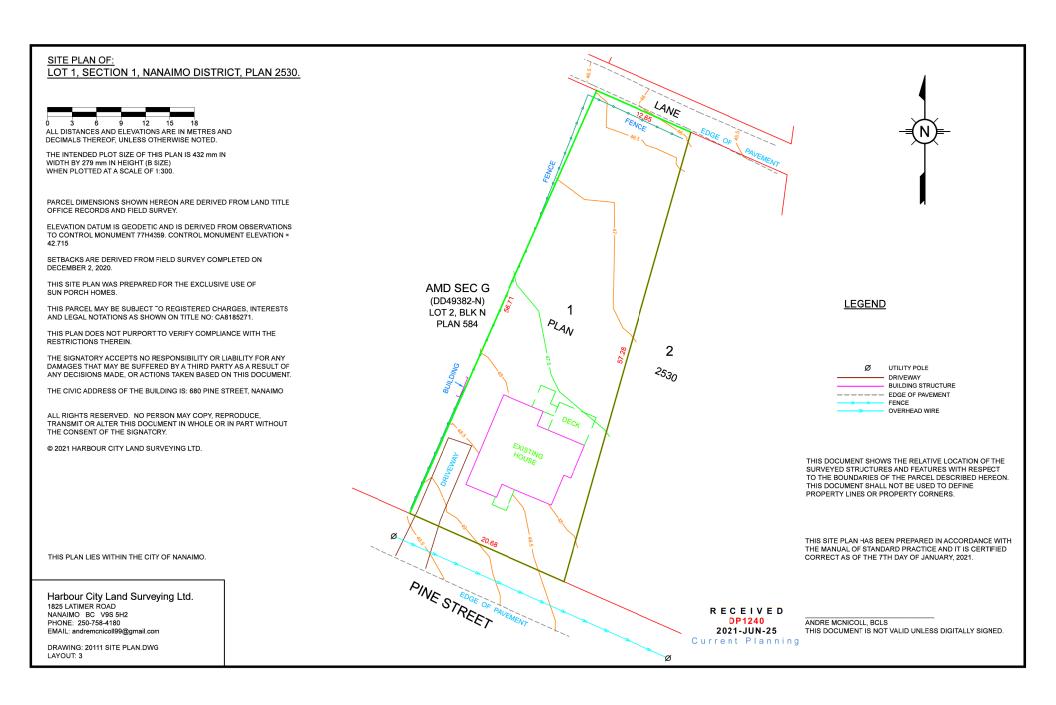
680 PINE STREET

680 PINE STREET, NANAIMO. BC

Sun Porch Homes Ltd.

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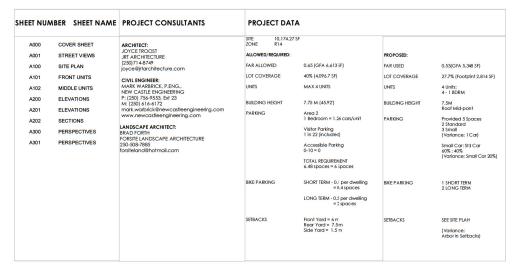




680 PINE STREET PROPOSED DEVELOPMENT, FRONT UNITS



680 PINE STREET PROPOSED DEVELOPMENT, MIDDLE UNITS





AERIAL VIEW OF SITE





JOYCE REID TROOST ARCHITECTURE

2515 GLENAYR DRIVE NANAIMO, BC V9S 3R9

250.714.8749

680 PINE STREET

680 PINE STREET, NANAIMO, BC

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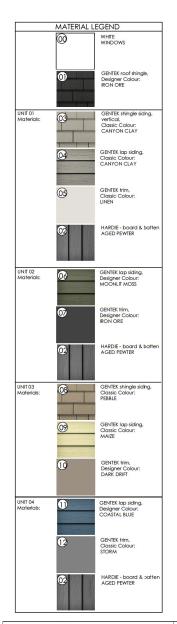
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JOYCE REID TROOST ARCHITECTURE

2515 GLENAYR DRIVE NANAIMO, BC V9S 3R9

joyce@jrtarchitecture.com

250.714.8749

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ELEVATIONS



WEST ELEVATION Scale 1/8" = 1"



REAR ELEVATION Scale 1/8" = 1"

DP1240 2021-JUN-25 Current Planning



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PERSPECTIVE PINE STREET VIEW



PERSPECTIVE REAR VIEW



PERSPECTIVE FRONT VIEW



PERSPECTIVE EAST VIEW FROM REAR





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PERSFECTIVES



PERSPECTIVE FRONT OF BUILDING



AERIAL PERSPECTIVE OF FRONT OF SITE



COMMON AMENITY SPACE AT THE REAR OF SITE



AERIAL PERSPECTIVE OF REAR OF SITE





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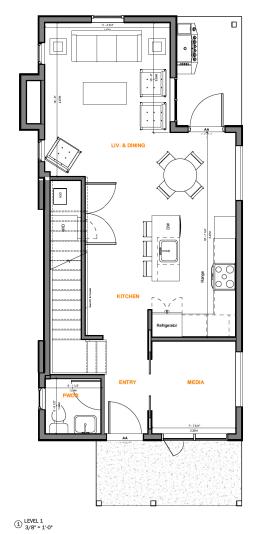
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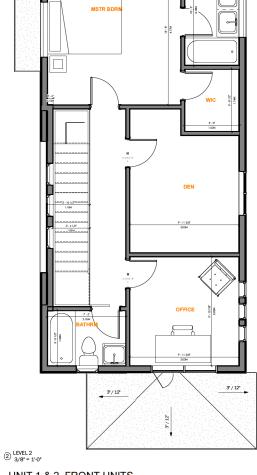
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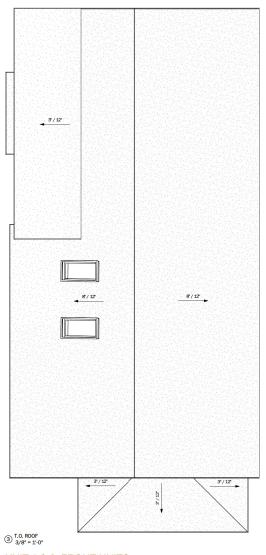
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PERSFECTIVES







UNIT 1 & 2, FRONT UNITS

UNIT 1 & 2, FRONT UNITS

UNIT 1 & 2, FRONT UNITS

RECEIVED

DP1240
2021-JUN-25
Current Planning



JOYCE REID TROOST ARCHITECTURE 2515 GLENAYR DRIVE NANAIMO, BC V9S 3R9

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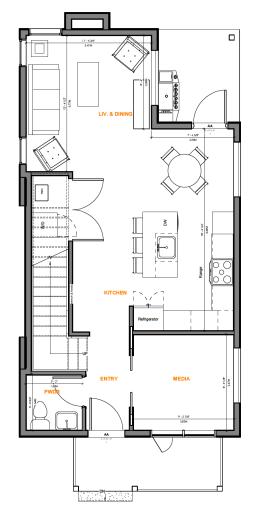
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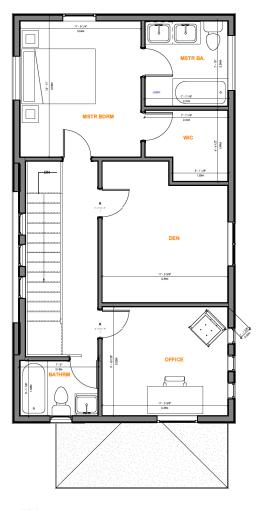
LEVEL 1, LEVEL 2 & ROOF FRONT UNITS A101 DL CHECKED BY JRT

JUNE 18, 2021

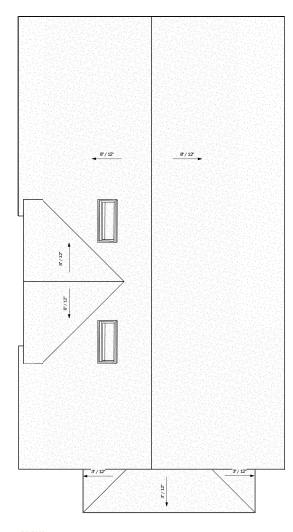


① LEVEL 1 3/8" = 1'-0"

UNIT 3 & 4, MIDDLE UNITS



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③ 1.0. ROOF 3/8" = 1'0" UNIT 3 & 4, MIDDLE UNITS









680 PINE STREET 680 PINE STREET, NANAIMO, BC

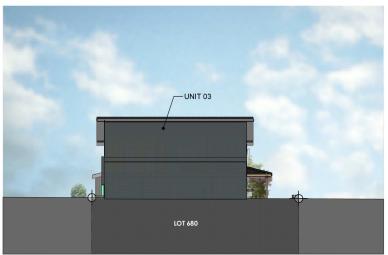
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LONGITUDINAL NORTH-SOUTH SECTION THROUGH LOT



CROSS EAST-WEST SECTION THROUGH UNIT 3



CROSS EAST-WEST SECTION THROUGH UNITS 1 & 2





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680 PINE STREET 680 PINE STREET, NANAIMO, BC

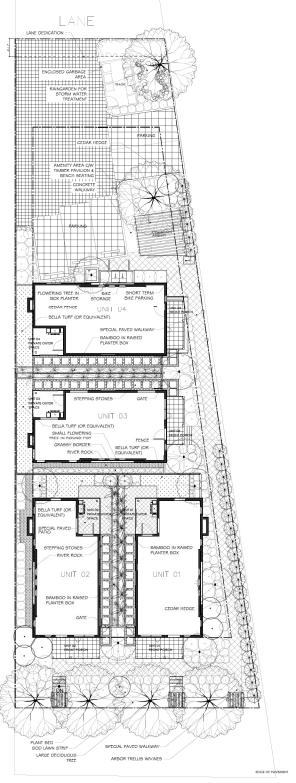
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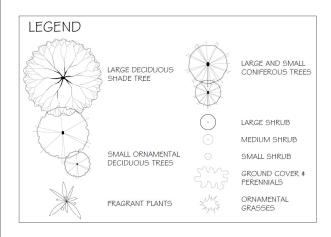
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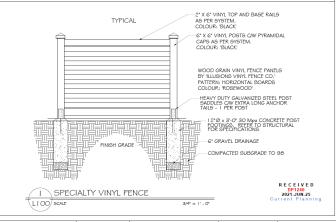




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	Key	Common Name	Latin Name	Size
Trees	FAGU	Columnar Purple Beech	Fagus sylvatica var. 'Dwayck Purple'	2.2m F
	JMAP	Japanese Maple	Acer palmatum var. 'Osakazukı'	6cm Ca
Large Shrubs	PIER	Lily of the Valley Shrub	Pieris japonica var. 'Forest Flame'	#5 Pa
· ·	PHYL	Golden Bamboo	Phylostachys Aurea	#7 Pc
Medium Shrubs	MRHA	Rhododendron	Rhododendron var. 'Unique'	#5 Po
	ABE	Glossy Abelia	Abelia x grandiflora var. 'Edward Goucher'	#2 Po
Small Shrubs	DWPJ	Dwarf Lily of the Valley Shrub	Pieris Japonica var. "Debutante"	#1 Po
	EUOF	Creeping Euonymus	Euonymus fortunei var. 'Emerald \$ Gold'	#1 Po
	AZAP	Evergreen Azalea	Azalea japonica var. 'Gumpo Pink'	#2 Pot
	NAN	Heavenly Bamboo	Nandina domestica var. 'Plum Passion'	#2 Pot
Ground Covers	BEAR	Bearberry	Arctostaphylos uva-ursi var.'Vancouver Jade'	SP4
	DERG	Heartleaf Dengenia	Dengenia conditolia var. 'Dressingham Ruby'	SPS
	VINC	Penwinkle	Vinca minor var. "Double Blue" # "Alba"	SP4
Grasses	CARX	Vanegated sedge	Carex morrowii var. 'Ice Dance'	#1 Po
	TEST	Flame Sedge	Carex testacea	#1 Po
	KARL	Feather Reed Grass	Calamagrostis var. 'Karl Forester'	#1 Po
	FESC	Blue Fescue	Festuca glauca 'Eijah Blue'	#1 Po
Perennials	HEUC	Coral Bells	Heuchera mycrantha var. 'Bressingham Ruby'	SP7
Vines	CLEM	Montana Clematis	Clematis montana var. 'Jackmanıı' & 'Elizabeth'	#5 Po
	WIST	Wistena	Wisteria sinensis var. 'Royal Purple'	#5 Po









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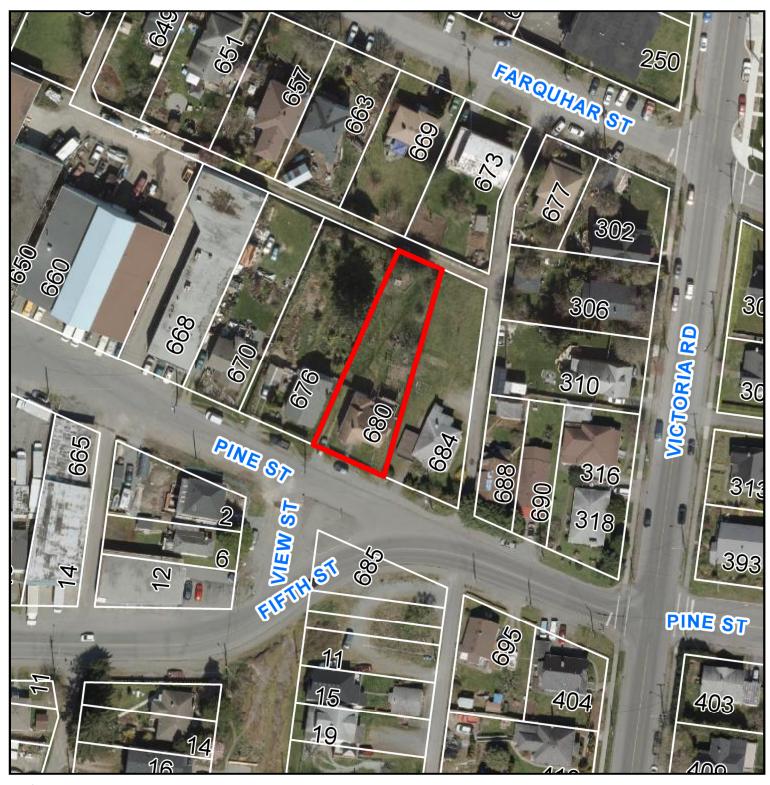




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AERIAL PHOTO





DEVELOPMENT PERMIT APPLICATION NO. DP001240



680 PINE STREET