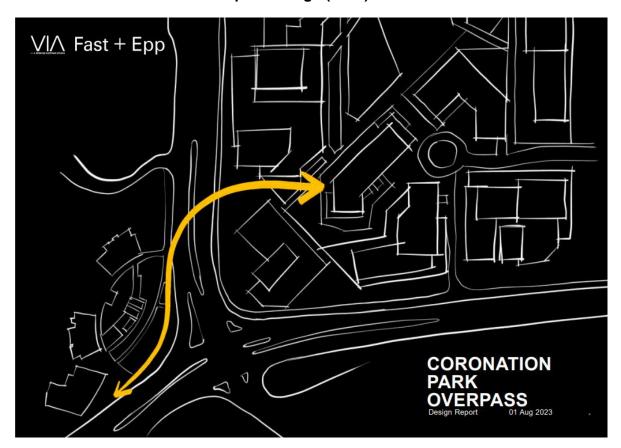
Attachment 4 - Pedestrian Overpass Design (Draft)



Basis of Design

Architectural Guiding Principles

The bridge design is guided by several key factors and requirements. The design complies with Moti TAC guidelines, which include considerations for maximum slope, guardrail requirements, a crash barrier protection for columns, ensuring safety and adherence to established standards. Relevant BC Building Codes are also being taking into account, considering factors such as slope and open area.

The bridge avoids any intrusion into private properties, ensuring that the bridge construction remains within public spaces and rights-of-way, respecting property boundaries.

Efficiency is to be maximized by utilising the existing planted median for structural support, optimizing construction resources while minimizing environmental impact, and preserving the surrounding natural elements.













12 Coronation Park Overpass . Port Moody, BC

1

Concept

Architectural Narrative

The bridge aims to be an iconic and
Curved Radial Alignment inviting structure that complements The bridge's striking curved radial pedestrian and cyclist lanes if the transit plaza and planned alignment serves as a dynamic visual desired. developments while prioritizing user feature that harmonizes with the safety and sustainable design.

landmark that complements the city's cyclists. urban landscape while prioritizing sustainable architecture. The bridge | Iconic Crystalline Section is envisioned to become an iconic. The bridge's crystalline section. symbol of Port Moody, reflecting the highlights its fluid serpentine Accentuating city's commitment to design alignment, adding elegance and Sculptural Alignment excellence and sustainable design practices.

surrounding transit plaza and Elegant Underside Design planned developments. This unique The underside of the bridge is The proposed design for the bridge curvature creates an inviting and elegantly detailed with a clean

the bridge's architectural identity. to its distinctive architectural identity

Shaped Picket Guardrail System Weathering Steel for

Safety and user experience are Sustainability prioritized through the incorporation Weathering steel is utilised for the of a shaped picket guardrail system. superstructure, providing a durable This system provides strong and maintenance-free finish that is protection while maintaining environmentally sustainable and transparency to the bridge deck, designed to last for over a century. ensuring user safety and enhanced visibility.

Ample Width for Mixed Use

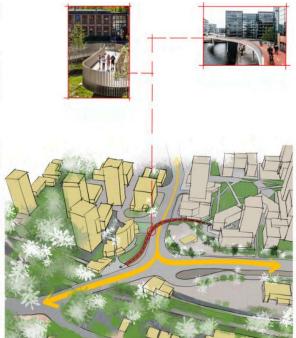
and bicycle traffic, allowing for a additional protection and a seamless commuting experience. convenient grab rail for pedestrians
The generous width also enables navigating steeper sections.

embodies functionality, safety, and irresistible path, encouraging trapezoidal steel box girder and aesthetics, creating a captivating exploration by pedestrians and precast plank system. This design not only enhances structural integrity but also adds to the bridge's aesthetic appeal.

becoming a signature landmark for Shaped chevron pickets accentuate the community. This iconic element the bridge's sculptural alignment, commands attention and enhances adding artistic flair and contributing

Safety for Cyclists

Stainless steel pipe rails are thoughtfully incorporated along the With a width of 5.5 meters, the bridge alignment to address sections where accommodates mixed pedestrian the slope exceeds 5%, ensuring



3D Visualizations

Aerial View Looking Northwest



Park Overpass . Port Moody, BC

3D Visualizations

Aerial View looking Northeast from Transit Plaza



3D Visualizations

Bridge Deck View Northeast



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3D Visualizations

Intersection Crossing View Looking Northwest



3D Visualizations

Coronation Development Plaza View South



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4

3D Visualizations Roadway View



3D Visualizations Roadway View



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3D Visualizations Roadway View





6

Lighting Integration

Explored Lighting Options

We aim to create a visually stunning Solar-Powered Bollard Lights and safe structure that enhances the Strategically-placed, solar-powered overall experience of pedestrians bollard lights close to the Inlet Station and cyclists. To achieve this, we Plaza segment of the bridge can propose the incorporation of various serve as an eco-friendly lighting consideration:

light for those using the bridge at encouraging people to interact with night. The soft glow emanating from the artwork and create a unique the rub-rails creates a well-defined experience for each visitor. and safe pathway, ensuring that pedestrians and cyclists can navigate the structure with ease.

In-Floor Lighting

Strategically embedded LED lighting fixtures along the bridge's pathway create a captivating and seamless illumination effect. The lights can be programmed to change colours, producing a dynamic and mesmerising visual display that attracts attention and enhances the bridge's aesthetic appeal during the evening hours.

will not only illuminate the pathway harness solar energy during the day but also add an element of art and and emit a warm and welcoming ambience to the bridge's glow during the night, ensuring surroundings. Below are some sustainable illumination without the lighting concepts we suggest for need for additional power sources.

cutting-edge lighting solutions that solution for the bridge. These lights

Interactive Light Art Installations

Rub-rall Lighting

As part of the art integration
Integrated LED lighting within the consideration, interactive light art
handrals (rub-ralls) of the bridge installations can be incorporated
ensures proper visibility while along the bridge. These installations
simultaneously providing a guiding could respond to touch or sound,















