



To: General Purposes Committee
From: Greg Scott, P. Eng., LEED A.P.
Director, Major Projects

Date: July 11, 2006
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Re: Richmond Olympic Oval – Exterior Colour Palette and Polycarbonate Colour Scheme

Staff Recommendation

- (1) That Council endorse the exterior colour palette for the Richmond Olympic Oval.
- (2) That Council approve the polycarbonate colour scheme for the Richmond Olympic Oval, illustrated as option 1.

Greg Scott
 Greg Scott, P. Eng., LEED A.P.
 Director, Major Projects
 (4372)

Att (5)

FOR ORIGINATING DEPARTMENT USE ONLY		
CONCURRENCE OF GENERAL MANAGER		
<i>A. Scott</i>		
REVIEWED BY TAG	YES <input checked="" type="checkbox"/> <i>BT</i> NO <input type="checkbox"/>	NO <input type="checkbox"/>
REVIEWED BY CAO	YES <input checked="" type="checkbox"/> <i>AT</i> NO <input type="checkbox"/>	NO <input type="checkbox"/>

Staff Report

Origin

As part of the design development for the Richmond Olympic Oval (ROO), Cannon Design has developed an exterior colour palette for the building and colour scheme for the polycarbonate.

Analysis

Exterior Colour Palette

The exterior material and colour palette of the ROO reinforces an idea of synthesis through contrast. This notion, central to the concept of “fusion”, celebrates lightness and transparency and is grounded in substance and strength. The dynamic shape of the “heron wing” roof is rendered in bright white PVC membrane and is contrasted at each feather seam with a PVC metallic fabric. The complex and dynamic roof edges are surfaced in white, pre-finished metal facings and flashings.

The form of the roof is derived from a visually complex wood deck, which is exposed on the exterior and continues, visibly, to the interior. This substantial wood surface enhances the high mass of the building with a warm, natural material with the added benefit of a high degree of detail interest.

The iconic roof of the Richmond Olympic Oval “flies” over the clear glazing curtain wall at the north and is visibly supported there by slender, tapering struts, rising from 15 massive concrete buttresses. These powerful grounding elements will feature Salish art motifs to reduce the scale and provide attractive detail. On the south, the roof overlaps a translucent polycarbonate clearstory, separated at each structural bay a concrete buttress termination.

The south elevation incorporates a 200 meter long polycarbonate surface which is integrally colour-tinted. This surface shows a dynamic colour variation across its length, which enhances the idea of “flow” and livens the character of its large surface area. The south polycarbonate wall is punctuated with an irregular pattern of windows and covers. It is also interrupted with a three story, clear glazed, lobby. This element, covered with a roof extension of the main roof, showcases the internal workings of the building and the strong accent colours proposed for this zone. The lobby is visually supported on structural wood struts, springing from reduced scale concrete buttresses, reminiscent of the north elevation treatment. Also alluding to the north elevation, are the lobby vestibules clad in warm silver coated metal panels. The building “base” under the polycarbonate surfaces is a ribbon of clear, storefront glazing in silver coated frames, incorporating most of the building entrances and exits.

The east and west elevations incorporate large, complex surfaces of the polycarbonate material, enclosing the interior program and shaped in a “billow” form. The lightness and delicacy of the polycarbonate material is contrasted with a highly textured profile metal surface, rendered in a warm, bronze-like metal coating. The elevations are further enhanced with significant, glare protected, glazed areas. The arches and the structural support surfaces for the billows are surfaced in the warm-tone silver metallic metal panels.

Polycarbonate Cladding

As approved at the Closed GP committee meeting on May 15th 2006, Cannon Design has continued to develop the colour scheme for the polycarbonate cladding.

The options for the colour treatment of the polycarbonate south, east and west walls are presented. The Fraser River projects a thin surface layer of silt out into the Georgia Straight; this is a unique occurrence on the west coast. The silt layer reflects the colour of the sky and gradates to the deep blue of the Straight. The two options are variations of an interpretation of this natural phenomenon.

Option 1

The first gradation strategy, from dark to light blue, represents the thinning of the silt layer as it dissipates into deep water. The complexity of the translucent polycarbonate wall is enhanced by sunlight, sky reflections, ambient interior light and, on the east and west walls, by surface curvatures.

Option 2

This is the most complex gradation strategy. Colours vary from blue to green and from dark to light, representing a larger range of gradation found in the delta.

While option 2 illustrates a wider spectrum of the delta gradation, the added complexity of colour and hue shifts make it difficult to achieve a seamless flowing gradation as colours change incrementally along the elevation. The simpler dark to light blue palette of option 1 more effectively integrates the primary idea of silt gradation with the inherent complexity of the polycarbonate translucency and reflectivity to produce a dynamic yet timeless colour strategy.

The design team recommends option 1.

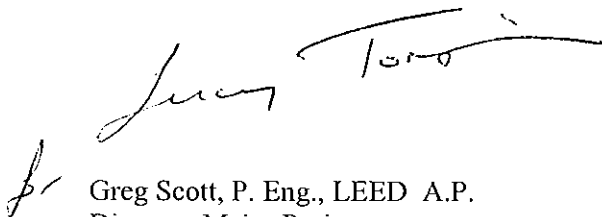
Staff have reviewed these options and recommends that Council adopt the colour scheme illustrated in option 1.

Financial Impact

The exterior colour palette and polycarbonate elements are included within the Capital Budget for the Oval Building and there is thus no additional financial impact.

Conclusion

That Council endorse both the Exterior Colour Palette and the polycarbonate colour scheme as illustrated as option 1.



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Subject:

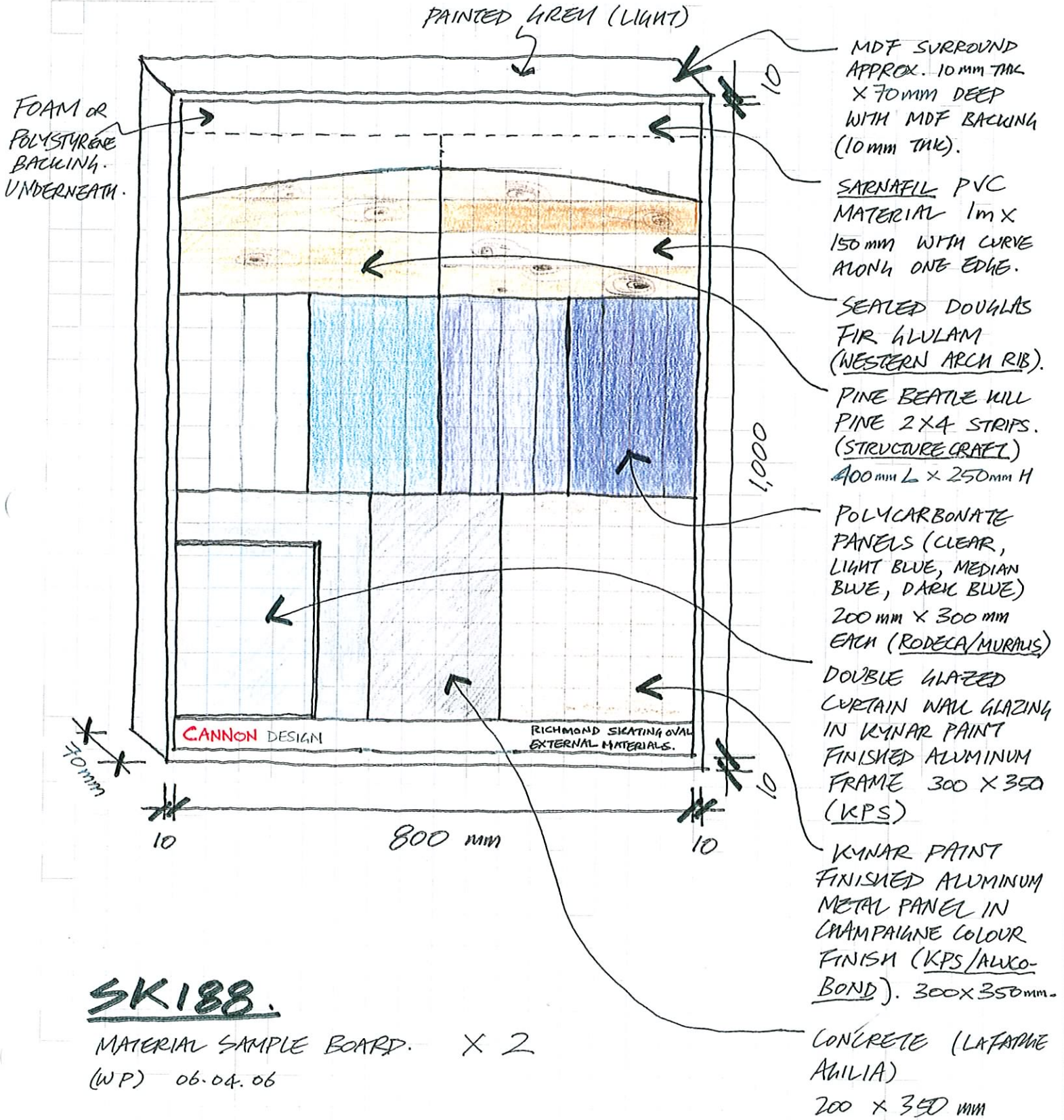
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MATERIAL SAMPLE BOARD. X 2
(WP) 06.04.06

APPENDICES

(1) EXTERNAL COLOUR PALETTE – Boards being presented at GP Committee meeting

(2) COMPUTER RENDERINGS OF OPTIONS 1 AND 2 FOR POLYCARBONATE COLOUR SCHEME – being prepared as a bound appendix by Cannon Design. (Will be delivered to City by noon Friday 14 July).