



Sustainability Strategy

5721 Production Way, City of Langley

Orion Construction

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As one of the largest industrial builders in the Lower Mainland, Orion Construction and our team of consultants are familiar with City of Langley's goal of sustainable development. We strive to incorporate as many sustainable initiatives in our projects as possible within the limitations of applicability and feasibility. Orion Construction has created our own approach to sustainability which is consistent with and complements the City's own goals. As project designs are finalized in the coming months, the project team will pay close attention to City of Langley feedback and looks forward to creating an exemplary industrial development.

Orion Construction will:

1. Maximize canopy cover in car parking areas through selected tree species;
2. Retain and protect existing endemic tree species to encourage native flora and fauna, where possible;
3. Select endemic flora;
4. Select drought resistant species and minimize use of sod;
5. Use bioswales and on-site water storage systems which maximize filtration prior to discharge;
6. Provide a minimum 10 percent of required car parking spaces as Electric Vehicle charger ready;
7. Design all outdoor lighting as high efficiency LED to maximize building efficiency;
8. Demonstrate through an energy model a minimum 5 percent saving on energy cost budget from ASHRAE 90.1 baseline;
9. Maximize solar reflectivity on walls through the use of a high albedo paint, accounting for up to 70 percent of vertical building surfaces on a typical project;
10. Use local and recycled building materials, including concrete and steel for foundations, slabs and exterior walls;
11. Incorporate extensive Low-E glazing in office areas to maximize building efficiency; and
12. Construct exterior envelope walls as fully insulated sandwich panel design to increase energy efficiency.