# N. Turner Designs Ltd.

[redacted]

## FLOOD RISK ASSESSMENT TOGETHER WITH RESILIENCE & RESISTANCE TECHNIQUES

**REF: FL2000**

**Site Address**

Mayfield
Florida Road
Worthing
BN12 5PE

**Flood Risk Report for:** Demolition of existing garage. Construction of new garage.

**1. Introduction** This report assesses the flood risk for the proposed garage development, which will replace the existing detached garage on the same property. The proposed construction will maintain the existing floor level and incorporate flood resilience and resistance techniques to minimise any risk.

**2. Flood Risk Assessment**

**2.1 Surface Water Flooding** The risk of surface water flooding at the proposed site is categorized as very low. This means that the annual probability of surface water flooding is less than 0.1% (1 in 1000 years).

**2.2 Flooding from Rivers and the Sea** The risk of flooding from rivers and the sea at the proposed site is categorized as low. This indicates an annual probability of flooding between 0.1% and 1% (1 in 1000 to 1 in 100 years).

**2.3 Flooding from Groundwater.** The risk of flooding from ground water is unlikely in this area.

**2.4 Flooring from Reservoirs.** The risk of flooding from groundwater is unlikely in this area.

**3. Proposed Floor Level** The new floor level for the proposed garage will be set at the same level as the original garage. This ensures no change in the building's elevation, thus maintaining the current flood risk.

**4. Flood Resilience and Resistance Techniques** To enhance the building's flood resilience and resistance, the following measures will be incorporated:

- **Materials**: Use of water-resistant materials for the floor and wall constructions, such as ceramic tiles, concrete, and waterproof plasterboard.
- **Structural Enhancements**: Elevating electrical sockets above the potential flood level to reduce damage risk.

**5. Non-Return Valves** No sewage connections are proposed.

**6. Impermeable Areas** The proposed garage is a replacement structure and will not increase impermeable areas compared to the existing arrangement. Therefore, the proposal will not increase flood risk.

**7. Conclusion** The proposed detached garage will not increase the flood risk whatsoever when compared to the existing arrangement. With the incorporation of flood resilience and resistance techniques, the building will be well-protected against potential flooding events