

# **SPACE AD LTD**

## **Technical Note – Tree Protection and Surface Water Drainage**

Proposed Vehicle Crossing

26 Prudhoe Grove, Jarrow, NE32 5YF

Date: August 2026

### **1. Introduction**

South Tyneside Council requested additional information regarding the protection of the existing highway tree and the management of surface water drainage. This note addresses both matters and demonstrates that the proposal has been amended and designed to avoid adverse impacts.

### **2. Existing Tree**

A mature highway tree is located within the grass verge adjacent to the proposed access. The tree will be retained and protected throughout the construction works.

### **3. Design Amendment**

Following the Highway Authority's comments, the proposed driveway has been reduced in width and relocated approximately 500mm further away from the existing highway tree. This amendment reduces the extent of excavation within the potential Root Protection Area whilst maintaining a safe and functional access.

### **4. Tree Protection Measures**

- Excavation shall be limited to the minimum necessary.
- Hand excavation shall be used where roots are encountered.
- Mechanical excavation adjacent to significant roots shall be avoided where reasonably practicable.
- Roots exceeding 25mm diameter shall not be severed without agreement from the Local or Highway Authority.
- Any unavoidable root pruning shall be carried out using sharp hand tools.
- Exposed roots shall be protected from drying out.
- No materials, spoil or plant shall be stored beneath the tree canopy.
- Works shall follow the principles of BS5837:2012.

### **5. Surface Water Drainage**

The proposed driveway will be constructed so that all surface water is retained within the application site.

Finished driveway levels will provide a gradual fall away from the highway and towards the property drainage point. Surface water will discharge to a permeable area within the site or, if

required, an on-site soakaway. Under no circumstances will surface water discharge onto the public highway or into the highway drainage system.

## **6. Driveway Construction**

The driveway will be formed using suitable materials laid to falls directing water back into the site.

The driveway will be constructed with an approximate fall of between 1:60 and 1:80 towards the drainage point.

If required, a linear drainage channel shall be installed immediately behind the dropped crossing and connected to an on-site drain point or soakaway.

The proposed construction will ensure that no surface water discharges onto the adopted highway.

## **7. Conclusion**

The proposed vehicle crossing has been amended to increase separation from the existing highway tree and incorporates appropriate construction methods to safeguard the retained tree. In addition, the driveway has been designed to ensure that all surface water is managed within the application site.

It is considered that the proposal satisfactorily addresses the Highway Authority's comments and that this Technical Note provides sufficient information in support of the application.