

Southampton to London Pipeline Project

Deadline 4

Site Specific Plan - Southwood Country Park
Application Document: 8.60

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1 Introduction

- 1.1.1 This plan provides further detail on the potential impacts, construction techniques and mitigation measures in this area as a standalone document that is certified as part of the Development Consent Order (DCO). Esso is required to comply with and implement the Site Specific Plan under Requirement 17 of the DCO (**Document Reference 3.1 (5)**).
- 1.1.2 The methodology covers the following:
- construction programme;
 - Open Cut installation through the park;
 - trenchless crossing under A327 Ively Road (TC014) and TC014a beneath Cove Flood Barrier;
 - vegetation removal;
 - access; and
 - reinstatement.



2 Construction Programme

- 2.1.1 As set out in the Code of Construction Practice (CoCP) (**Document Reference 6.4 Appendix 16.1 (3)**), construction activities within the Suitable Alternative Natural Greenspace (SANG) will be fully demobilised within the two-year period and reinstatement completed with all protective fencing removed unless otherwise agreed with the local authority.
- 2.1.2 Works may take place over the two-year construction period and works may not run concurrently. This allows for seasonal working constraints to be accommodated, i.e. ecological seasonal constraints, optimum replanting periods and optimum soil handling periods. In addition, works will need to avoid the wet months of the year when passing through the Cove Brook Flood Storage Area as agreed with the Environment Agency.
- 2.1.3 There is a two-year working window for the construction works, as the programme will need to take account of any seasonality such as ecological constraints and optimum replanting periods. Notwithstanding the above constraints, the detailed scheduling of the works will look to rationalise and work simultaneously where there is the ability to do so, to reduce disturbance to the park. Once the construction plans have been finalised, the local community will be informed and updated in line with the Community Engagement Plan (**Document Reference 8.52**).
- 2.1.4 Based on the preferred construction methodology, it is expected that within Southwood Country Park SANG approximately 45 weeks of work will be required for the installation of the pipeline and reinstatement.
- 2.1.5 Below is a summary of works and estimated durations, but this is subject to detailed programming and uncertainties such as weather and ground conditions.

Table 2.1: Estimated duration of works (based on working 6 days per week)

Works	Estimated Duration
Enabling works, including compound (4AC)	4–6 weeks
Mobilisation	3 weeks
Open Cut	14 weeks
TC014 (A327 Ively Road) auger bore	8 weeks
TC014a (Flood Storage Dam) auger bore	8 weeks
Reinstatement	4–6 weeks. Reinstatement will take into account seasonal constraints including tree planting seasonality and will occur in the first available planting season.

- 2.1.6 The above table represents the case in which each element of works is carried out individually. During the detailed scheduling of the works, the project will look to rationalise the potentially overlapping activities between works to reduce disturbance to the SANG.
- 2.1.7 The Open Cut sections will be subject to a number of environmental constraints including, but not exclusively, tree and scrub removal to take place during the winter



months; reptile mitigation and other vegetation removal during the non-hibernation months; and works in the Flood Storage Area and other wet areas associated with the Old Ively and Cove brooks in the drier months.

- 2.1.8 Backfilling and reinstatement will commence progressively to keep up with the pipeline installation to ensure that excavations are kept open no longer than necessary. Reinstatement could also be subject to seasonal constraints in relation to seeding and planting. Once areas are complete, the fencing can be removed.



3 Description of Works

3.1 Access

- 3.1.1 Public access into the country park will not be impacted by the works and the car parking provision will remain available. The undesignated paths/tracks within the country park will be crossed by the working area. However, at intersections between the working area and path/tracks, pedestrian crossing points will be installed, similar to those used for Public Rights of Way crossings. Pedestrians will have priority at these crossing points – the gates will only be ‘closed’ when works require. At such times, operatives will be stationed at the crossing point to facilitate public access.
- 3.1.2 If a circular path has been installed at the time of construction, diversions or priority pedestrian crossings will be put in place to ensure this remains available to users.
- 3.1.3 Construction access will be from Ively Road, Cove Road and via Cove Cricket Club. A haul route will be established for the length of this section of the works. At the midpoint of the country park is construction compound 4AC which facilitates this section of the works.

3.2 Vegetation Removal

- 3.2.1 The local landscape character comprises informal footpaths within grassland, hedgerows and trees. Works are underway to convert the area from a heavily managed amenity environment as a former golf course to a country park managed for recreation and nature conservation.
- 3.2.2 Additional baseline surveys will therefore be undertaken in summer 2020 to reflect this changing environment and results will inform the Landscape and Ecological Management Plan (LEMP) (**Document Reference 8.50**).
- 3.2.3 Any required ecological mitigation will be undertaken ahead of any construction activities. This will include any species translocation.
- 3.2.4 Sections 3.3 to 3.7 below outline the approach that will be taken during construction to reduce the impact to vegetation and trees within the country park, and this is reflected in the construction stage plan at Annex B. As per Requirement 8(1)(a) of the DCO (**Document Reference 3.1 (5)**), the retention and removal of vegetation within the park must be undertaken in accordance with this Site Specific Plan (including the construction stage plan) unless otherwise agreed by the relevant planning authority.
- 3.2.5 Before construction activities, trees and hedgerows identified to be removed will be cleared by a specialist with advice from the Environmental Clerk of Works and the arboriculturalist. Gaps will be restricted to a maximum of 10m through hedges and woodland belts, and the woodland to the north near Cove Brook will be subject to narrow working.
- 3.2.6 The project Environmental Clerk of Works will also monitor and provide advice when works to trees, such as branch removal, are required or and when working in the Tree Protection Zone.



- 3.2.7 Trees being retained will be protected from installation activity in line with commitment G95: *'The contractor(s) will apply the relevant protective principles set out in the National Joint Utilities Group Guidelines for the Planning, Installation and Maintenance of Utility Apparatus in Proximity to Trees ('NJUG Volume 4' (2007)). This will be applied to trees within the Order Limits which will be preserved through the construction phase, and to trees adjacent/outside of the Order Limits where such measures do not hinder or prevent the use of the relevant working width for construction.'*
- 3.2.8 The potential veteran tree within the Order Limits (T40-A3) will be retained.

3.3 Enabling Works

3.3.1 This consists of:

- creating the compound (Works 4AC); and
- setting up the site, such as bringing in plant, materials and fencing.

3.3.2 The compound 4AC will be constructed within a grassed area of the country park.

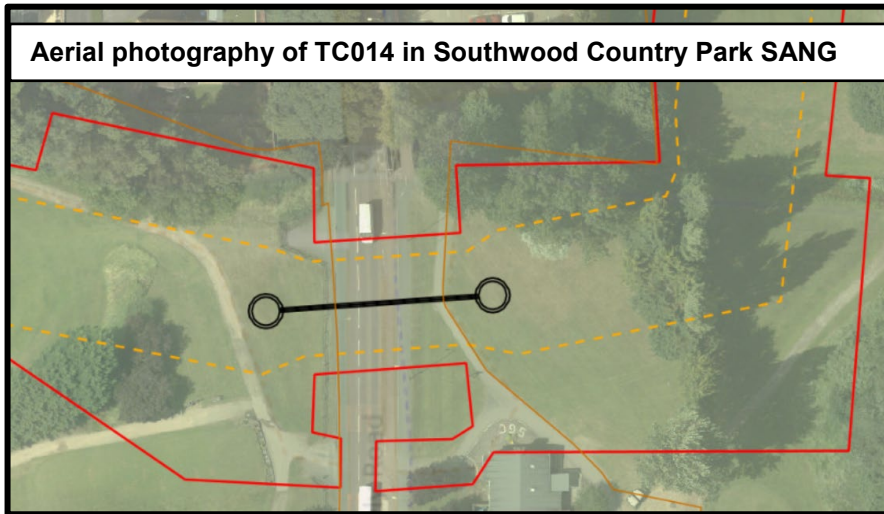
3.3.3 The topsoil will be stripped and neatly stored to one side of the compound, which will provide additional noise and visual screening of the compound from users of the country park. The area of the compound will then be covered with a permeable surface.

3.3.4 The compound will be fenced with a 2m high Heras perimeter fence that is bolted together for security and placed on rubber weighted feet for stability. Lighting will be installed, facing down and away from the nearby properties, and only used while the compound is occupied during the working day, with the exception of security lighting. The compound will be fully secure, with locked gates and may have CCTV. A watching security guard will periodically check on the work sites when the works are not operating, such as during the night and on Sundays.

3.4 TC014 (A327 Ively Road)

- 3.4.1 The trenchless crossing of the A327 Ively Road will use the auger bore technique over approximately 32m.
- 3.4.2 The launch pit will be located on the west side of the A327 Ively Road.
- 3.4.3 The reception pit will be located on the east side of the A327 Ively Road.
- 3.4.4 The works for this trenchless crossing will follow the methodology as outlined in the CoCP (**Document Reference 6.4 Appendix 16.1 (3)**).
- 3.4.5 No significant noise impacts have been identified in relation to this auger bore.

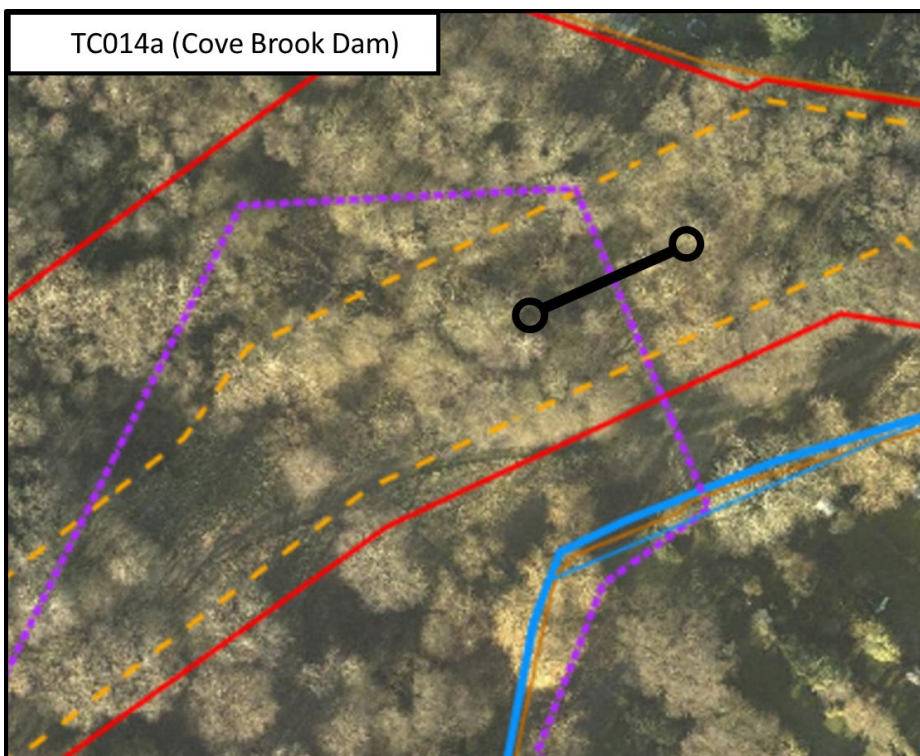
Illustration 3.1: Aerial photography of TC014 in Southwood Country Park SANG



3.5 TC014a (Cove Brook Dam)

- 3.5.1 An auger bore technique will be used to cross the Flood Storage Area embankment. This crossing will be circa 25m long. Launch and reception pits will be constructed either side of the existing dam structure.
- 3.5.2 The auger bore will commence once the launch and reception pits are complete. The pipe will be pushed from west to east (Southwood Country Park SANG to Cove Road) into the reception pit. The excavation will remain open for as short a period as possible but will only be concluded once the Open Cut pipe installation has been tied into the auger bore section.

Illustration 3.2: Outline proposal for Cove Brook Dam crossing





3.6 Open Cut

- 3.6.1 Open Cut installation will be used through Southwood Country Park. Details on how this will be applied at this location are summarised below.
- 3.6.2 There is a narrow working commitment (NW16) to the northern section of the works in this area, to reduce the working width to 15m, incorporating an existing track to reduce impacts on woodland near to Cove Brook.
- 3.6.3 Works in the Cove Brook flood storage area will be scheduled to take advantage of long-term forecasts making use of dry weather conditions.
- 3.6.4 A 30m wide fencing/barrier system will be erected within the Order Limits, reducing to 15m through the narrow working section. Entrance gates will be placed at each end to allow both plant and the operatives access. These entrances will be closed and locked when not in use.
- 3.6.5 The steel pipes will be brought from the construction compound (4AC) into the working width.
- 3.6.6 All fabrication works (such as grinding, welding, coating and testing) will be undertaken behind screens or within shelters in order to prevent impact on the users of the country park. These screens will include acoustic protection if required.
- 3.6.7 Depending on weather and ground conditions, installation will be undertaken in sections, with an expected programme of 14 weeks, working six days per week. There will be additional time for site setup/demobilisation (approximately three weeks).
- 3.6.8 The Open Cut will be complete when the ends are connected into the pipeline installed using trenchless techniques. Therefore, depending on the sequence of the works, the end section(s) of trench will be suitably fenced off and secured until the connection of the pipe to the trenchless section is concluded.

3.7 Construction Compound 4AC

Illustration 3.3: Aerial view of compound 4AC



- 3.7.1 There will be a construction compound, 4AC, located to the west of the A327 Ively Road. The creation of the compound will take around three weeks
- 3.7.2 The compound will be located outside of the flood storage area and Flood Zone 3. The compound will have a 2m high perimeter fence that is double clipped for security and placed on rubber weighted feet for stability.
- 3.7.3 The topsoil will be stripped and neatly stored to one side of the compound, which will provide additional noise and visual screening of the compound from users of the park. The area of the compound will then be covered with a permeable surface.

3.8 Reinstatement

The Pedestrian Paths

- 3.8.1 The paths will be reinstated once the Open Cut installation is complete. Details will be in agreement with Rushmoor Borough Council.

Vegetation Reinstatement

- 3.8.2 Vegetation will be reinstated as shown in the reinstatement plan attached at Appendix B. This reinstatement plan will be included within Appendix B of the LEMP (**Document Reference 8.50**) for the approval of the relevant planning authority as per Requirement 8(1)(b) and Requirement 12 of the DCO (**Document Reference 3.1 (5)**).
- 3.8.3 Where the topsoil has been stripped and stored adjacent to the excavation, this will then be replaced after the works have been completed and either seeded with an appropriate conservation seed mix or left for natural regeneration, following

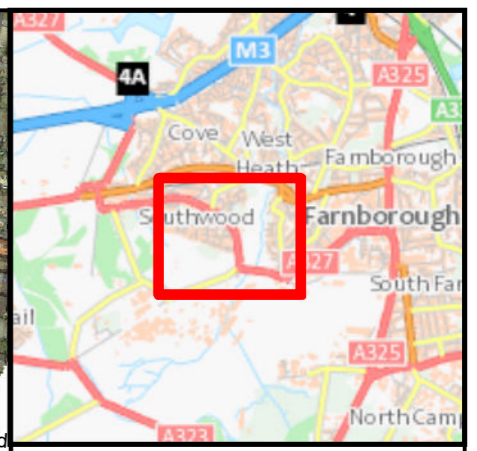


discussion with Rushmoor Borough Council's Biodiversity Officer and informed by the updated surveys.

- 3.8.4 Hedgerows will be fully reinstated, and areas of woodland will be fully reinstated with a mix of native trees and woodland shrub species appropriate to wet woodland.
- 3.8.5 The crossing of the Ively Brook will be reinstated to a more naturalistic structure, if this hasn't already been achieved by Rushmoor Borough Council at the time of construction.



Appendix A – Area Plan



- Legend**
- Order Limits
 - Suitable Alternative Natural Greenspace (SANG) (area covered by this site specific plan)
 - Point of interest
 - Existing aviation pipeline and multifuel lines
 - River
 - Undesignated path
 - Statutory services line

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Rev.	Rev. Date	Purpose of revision	Orig/Dwn	Checkd	Rev'd	Apprv'd

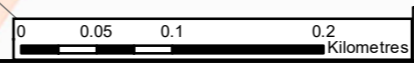
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Client
 Esso Petroleum Company, Limited
 Ermyrn House,
 Ermyrn Way,
 Leatherhead,
 Surrey,
 KT22 8UX

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Drawing title
**SITE SPECIFIC PLAN
 SOUTHWOOD COUNTRY PARK**

Drawing Status	For Issue	
Scale	1:5,000 @ A3	DO NOT SCALE
Jacobs No.	B2325300	
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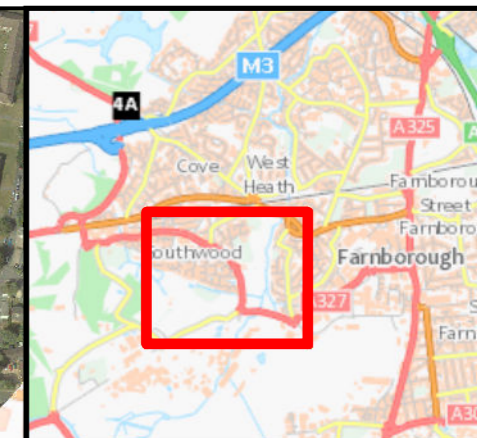
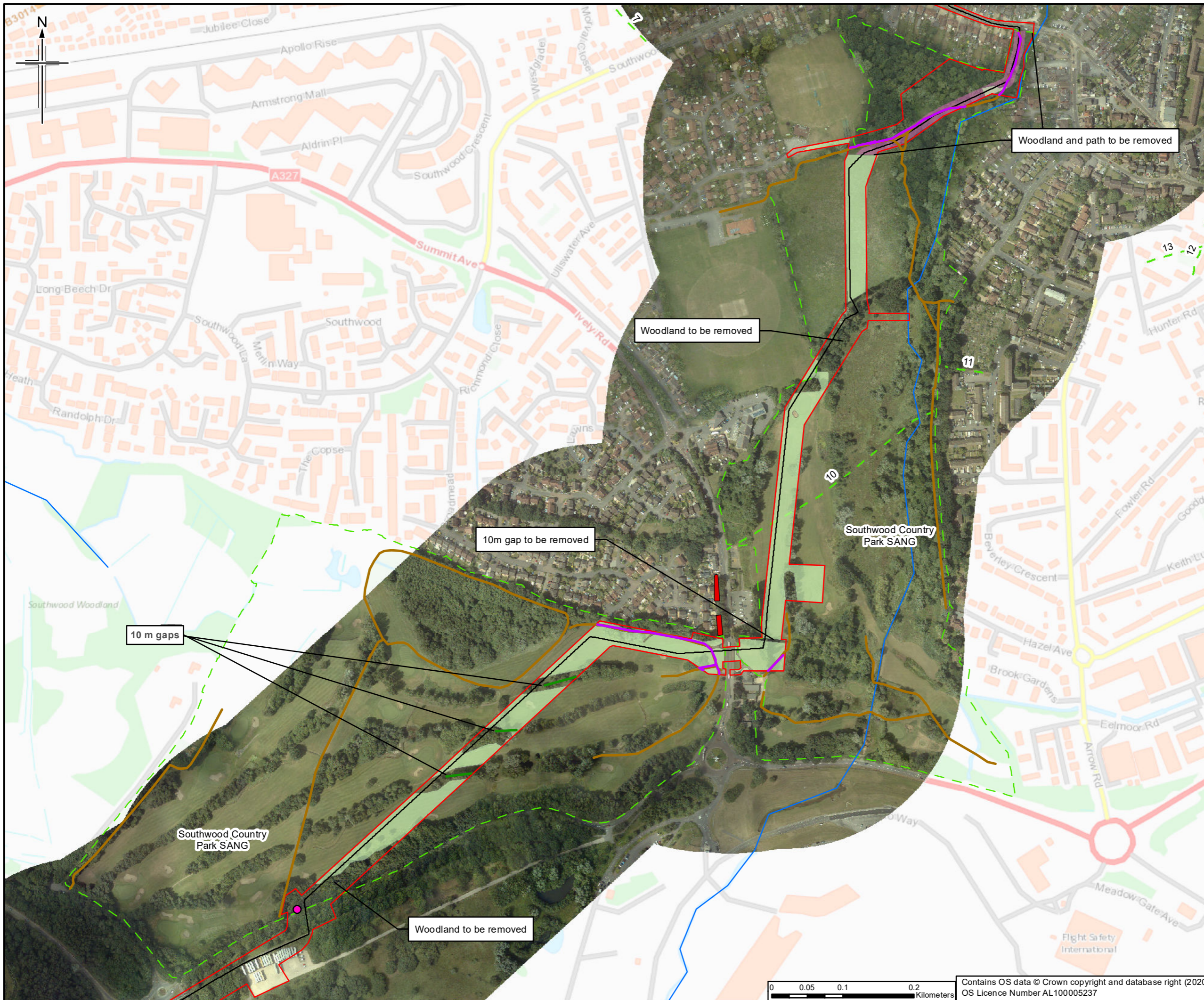


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Appendix B – Construction and Reinstatement Plans



- Legend**
- Order Limits
 - Intended Pipe Centreline
 - Narrow working
 - Tree Preservation Order (TPO) - tree groups
 - Suitable Alternative Natural Greenspace (SANG)
 - Area to be topsoil stripped
 - Veteran tree to be retained
 - Watercourse
 - Path removed
 - Undesignated path
 - Woodland belt retained
 - Footpath

Note: Plan based on intended pipeline alignment

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 1180 Epsom Road, Weybridge, Wokingham, RG41 1STU, UK.
 Tel: +44(0)118 946 7000 Fax: +44(0)118 946 7001
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 Ermyn House,
 Ermyn Way,
 Leatherhead,
 Surrey,
 KT22 8UX

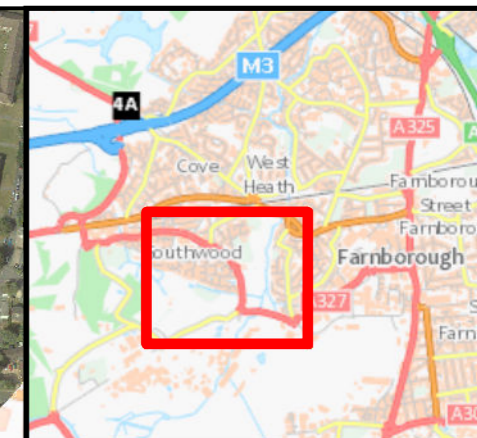
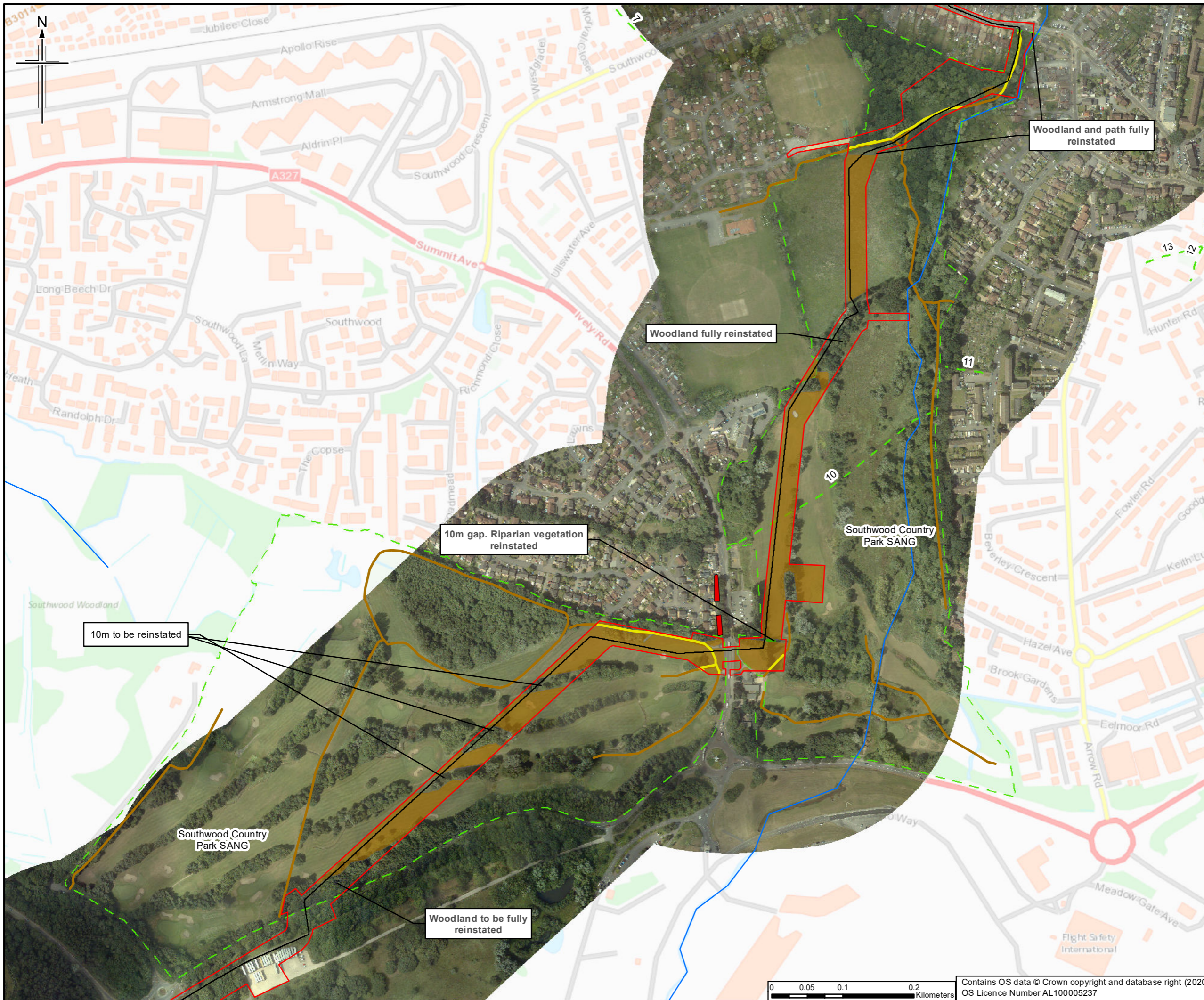
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SOUTHWOOD COUNTRY PARK SANG: CONSTRUCTION

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- Legend**
- Order Limits
 - Intended Pipe Centreline
 - Tree Preservation Order (TPO) - tree groups
 - Suitable Alternative Natural Greenspace (SANG)
 - Watercourse
 - Amenity grass
 - Conservation grassland (mix to be confirmed)
 - Reinstated path
 - Undesignated path
 - Footpath

Note: Plan based on intended pipeline alignment

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Rev.	Rev. Date	Purpose of revision	Orig/Dwn	Checkd	Rev'd	Apprv'd

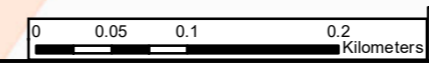
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 Esso Petroleum Company, Limited
 Ermyn House,
 Ermyn Way,
 Leatherhead,
 Surrey,
 KT22 8UX

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SOUTHWOOD COUNTRY PARK SANG: REINSTATEMENT

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