

Site Location
Scale 1:25000

Outline Specification

The margins of the track works will be left to re-vegetate naturally given that the soil profile is likely to contain heather seeds and plant material such as cotton-grass shoots and roots. Following completion of the works it may be required in certain areas to aid more establishment that a seed mix containing a nurse crop of fine grasses and heather seed is sown immediately after works to help bind the soil material and prevent any erosion (wind/water) that might occur in the early stages of growth. This work will be monitored by the client following advice from the Project Ecologist / Landscape Architect. Additionally allowing natural regeneration of vegetation should be used in the first instance however this should be monitored and remedial works put in place if vegetation fails to establish or if undesirable vegetation dominates on reinstated works areas. Where practicable remove and temporarily store turfs which could then be re-laid on cleared areas. Any cleared turfs would contain the majority of the existing seed bed therefore helping to speed up vegetation re-establishment. The long term objectives for the scheme is to support the priority habitat as identified within 'The Heather Moorland ActionPlan'.

Scotia Seeds - Highland Grass Mix (or equal and approved)

Wildflowers (20%)		%
Achillea millefolium	Yarrow	1.8
Calluna vulgaris	Heather	0.3
Erica cinerea	Bell heather	0.1
Campanula rotundifolia	Bluebell/Harebell	0.1
Galium saxatile	Heath Bedstraw	0.5
Galium verum	Lady's Bedstraw	2
Lotus corniculatus	Birdsfoot Trefoil	2.5
Plantago lanceolata	Ribwort Plantain	2.2
Potentilla erecta	Tormentil	0.2
Prunella vulgaris	Selfheal	2.5
Ranunculus acris	Meadow Buttercup	4
Rumex acetosella	Sheep's Sorrel	2
Succisa pratensis	Devil's-bit Scabious	1
Trifolium repens	White Clover	0.5
Veronica officinalis	Common Speedwell	0.1
Viola riviniana	Common Dog Violet	0.2

Grasses (80%)		%
Agrostis capillaris	Common Bent (c)	5
Anthoxanthum odoratum	Sweet Vernal Grass	10
Deschampsia flexuosa	Wavy Hair Grass	30
Festuca ovina	Sheeps Fescue	20
Poa pratensis	Smooth-stalked Meadow Grass (c)	15

SOWING RATE:
3g per metre square

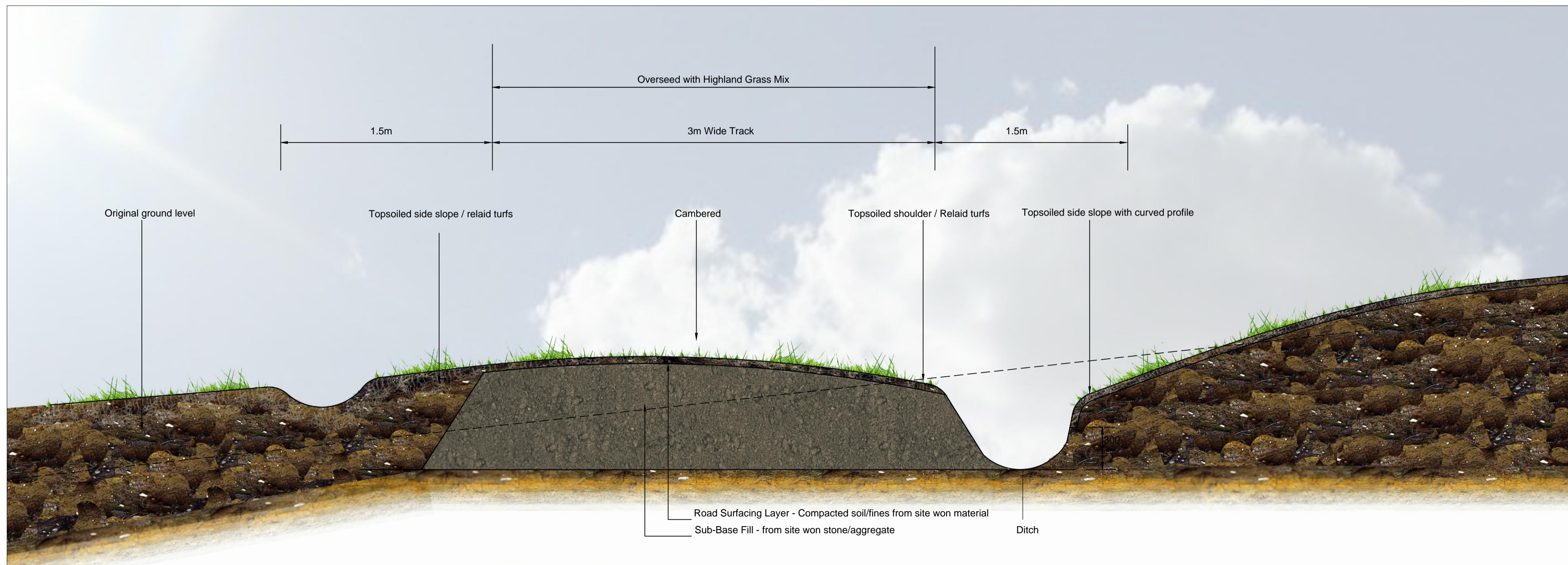
Seeding and Aftercare Requirements

On completion of the phased approach to track improvement works, the track surface will be seeded using the Highland Grassland Mix (or equal and approved) at 3gms per m2 directly onto the Road Surfacing Layer and then lightly rolled/ compacted. The soil reversal techniques for the track construction will be undertaken in a phased manner over a 6-8 week period during Autumn 2015.

The following Spring site inspection will review germination and regrowth along track and verges. Subsequent seeding will be considered and will be undertaken where areas of bare ground remain, to stabilise any exposed soils/ peat material, providing continuity of the heath/ moorland habitat.

Longer term management should be in line with the existing moorland regime looking at light grazing within the initial year. Generally maintenance will include the following:

- o Appropriate grazing regimes, with good shepherding / animal husbandry using upland hardy breeds at low densities.
- o Sensitive cutting / burning regimes. If using burning as a management tool, careful 'cool' burns must be used with special care taken not to damage peat. When cutting heather, damage and disturbance by vehicles (including during the extraction of heather) must be minimised.
- o Minimise the risks of accidental or damaging fires by careful fire risk management, such as the inclusion of fire breaks and emergency action plans
- o Adherence to the Heather and Grass Burning Code.
- o Grip or drain blocking to restore natural hydrology.
- o Bracken control where it is invading important habitats.
- o Control of scrub and trees where they are invading important habitats.
- o Continued review/ maintenance of track with ongoing works to review any deterioration of the surface layer and rectify in line with the above specification.



Typical Cross Section - on slope sections
Scale 1:20

Do not scale from this drawing.															
(drawings can be scaled for information purposes only and in the determination of the planning application)															
SAFETY HEALTH AND ENVIRONMENTAL INFORMATION															
IN ADDITION TO THE HAZARD/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING RISKS AND INFORMATION.															
RISKS LISTED HERE ARE NOT EXHAUSTIVE. REFER TO DESIGN ASSESSMENT FORM NO.															
CONSTRUCTION															
DEMOLITION															
FOR INFORMATION RELATING TO USE, CLEANING AND MAINTENANCE SEE THE HEALTH AND SAFETY FILE															
IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT.															
Key 															
<table border="1"> <tr><td>A</td><td>01/08</td><td>TEXT AMENDMENTS.</td><td>ST</td><td>DW</td><td>DW</td></tr> <tr><td>Rev.</td><td>Date</td><td>Description</td><td>Drawn</td><td>Chkd.</td><td>Appd.</td></tr> </table>				A	01/08	TEXT AMENDMENTS.	ST	DW	DW	Rev.	Date	Description	Drawn	Chkd.	Appd.
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Project Title:
**PROPOSED TRACK IMPROVEMENTS
NORTHUMBERLAND NATIONAL PARK**

Drawing Title:
**LANDSCAPE MITIGATION AND
MANAGEMENT PROPOSALS**

Scale of A1: AS SHOWN	Status: Preliminary
Drawn: AW	Checked: SWG
Date: 21/08/15	Date: 21/08/15
Approved: SWG	Date: 21/08/15

Drawing No.: **99870/8014** Revision: **A**