

# General Civil Engineering Works

Contract Ref: FCE / FC / 2010 / 3/Dalby Seating Area and Trail





TITLE		Unit	Quantity
	Description		
<b>1.S</b>	<b>DDA Trail</b>		
1.S.1	Strip top soil and remove from formation to agreed location within 1000m	Lm	375
1.S.2	Supply, lay and compact to levels as per drawing and specification formation of 75mm crusher run	Lm	375
1.S.3	Supply, lay and compact to levels as per drawing and specification sub base of 40mm crusher run	Lm	375
1.S.4	Supply, lay and compact to levels as per drawing and specification wearing course of 10mm to dust. This material must be dark coloured and hard wearing and agreed with Engineer	Lm	375
<b>1.T</b>	<b>Seating Area</b>		
1.T.1	Strip top soil and remove from formation to agreed location within 1000m	M <sup>3</sup>	50
1.T.2	Excavate to proposed levels as per drawing.	M <sup>3</sup>	25
1.T.3	Supply, lay and compact to levels as per drawing and specification base of 40mm crusher run	M <sup>3</sup>	15
1.T.4	Supply, erect gabions as per drawings to manufacturers instructions 2000mmx1000mmx500mm, 3mm Gaflan coated welded wire.	item	90
1.T.5	Supply, erect gabions as per drawings to manufacturers instructions 2000mmx500mmx500mm, 3mm Gaflan coated welded wire.	item	35
1.T.6	Supply and place by hand hard durable frost resistant clean stone, 100mm to 200mm nominal size.	M <sup>3</sup>	72
1.T.7	Supply dressed, treated timber as per drawing from a FSC or equivalent source. Include for fixings, galvanised screws as per drawing	M <sup>3</sup>	80
<b>1.F</b>	<b>Steps</b>		
1.F.1	Excavate to proposed levels as per drawing.	M <sup>3</sup>	2
1.F.2	Supply and install new untreated Oak sleepers from a FSC or equivalent source , 2600mm x 250mm x 125mm with 3 number 20mm dia steel rods through predrilled holes.	Item	20
1.F.3	Supply and install road plannings to backfill to steps and treads	M <sup>3</sup>	1
1.F.4	Supply and install galvanised hand rail as per drawing.	Item	2

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**1. CONTRACT DATA**

**1.1 WORKS INFORMATION**

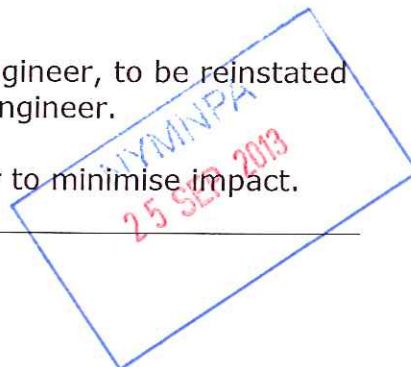
The Forestry Commission is looking to construct a trail and a tiered seating area with steps. The trail will be to all ability standard as set out in The Fieldfare Trust Countryside for All Rural Landscape Standard to the layout in the drawing. The works will ensure the required running surface quality for the intended user, the drainage off the trail and the trail side drainage is proficient. The seating area is constructed from gabions with timber seats including steps constructed from new timber sleepers with galvanised handrails. This is a high amenity area and a high level of finishing is expected.

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## 2. CONTRACT DATA

### Path Construction Standards

1. The width of the path is to be 1.5m.
2. The maximum camber is to be 2% from the  $\phi$  to each side
3. The trail will be a 3 layer construction with a capping layer of a 75mm to dust (limestone is acceptable) to a minimum depth of 150mm will be placed and compacted and then sub base layer of type 1 (40mm to dust) laid and compacted to a minimum depth of 75mm. The wearing course to be a crushed rock < 10mm with a high dust content to a minimum depth of 25mm will be placed and compacted. Depth may vary to ensure a surface as even as practicable. Wearing course material to be of a buff colour to match the existing paths around the visitor centre..
4. All material to be used by the contractor shall be approved by the Engineer prior to starting the contract. Samples of surfacing material to be provided prior to contract start. The use of recycled planings to the above specification (10mm to dust) is allowed. Samples to be provided to the engineer prior to starting.
5. Formations and sub base are to be shaped to the required camber to allow water runoff prior to placing of stone.
6. Soft spots beneath the formation to be overlain with non-woven, permeable geotextile membrane, min. 140 gm/m<sup>2</sup>, prior to overlaying with stone. Surplus material to be trimmed so that none is left visible. Over burden from side of track to be used to used to dress off fill material.
7. The Engineer is to approve all instances requiring the use of geotextile membrane.
8. Top soil excavated from the formation tray will be used to dress the verge side and hide all path construction. This will keep an indigenous seed bank in the soil which will vegetate the verges.
9. Temporary access tracks to be used, as agreed with engineer, to be reinstated to original ground conditions to the satisfaction of the engineer.
10. Works along the Trail to be confined to the trail corridor to minimise impact.





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### **Gabion Construction Standards**

11. Main seating Gabions to be 2000mmx1000mmx500mm, from 3mm Gaflan coated welded mesh.
12. Top level of gabions to be 2000mmx500mmx500mm, from 3mm Gaflan coated welded mesh
13. Gabions to be filled by hand with 100mm to 200mm hard, durable, frost resistant stone.
14. Spoil from abutment excavations to be kept and used to make up ground end of seating area.
15. Gabions to be bedded on 75mm of compacted 40mm Type material
16. Timber seats to be from dressed and treated 100mmx50mm. All timber to from an FSC or equivalent accredited source.
17. All finished edges to be smooth and free from any hazards.

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### **Step Construction Standards**

18. Steps to be constructed from new untreated Oak sleepers, 2600mmx250mmx125mm. Pre-drilled as per drawing to take 20mm dia 750mm long steel bar, driven into formation .
19. Back of steps to be back filled with 20mm to dust material, road planning's are acceptable.
20. All timber to be FSC or equivalent.

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