

CROSS SECTION

Timber Schedule - Refer to Note 6 Contractor to autobilish expect dimensions, lengths and quantifies before cutting and treating, and to make allowance for cutting waste.									
Part	Species	Grade	Finish	Treatment	Size (mm)	No.	Notes		
Posts	Larch	ss	Sawn	Tanalith E	100x100 1615 long	32	45° cut one end & 2No holes drilled before treatment.		
Top rails	Larch heartwood	GS	Dressed	None	Ex 150x35 11980 long	2	Fix to a minimum of three posts.		
Middle rails	Larch heartwood	GS	Dressed	None	Ex 150x50 11980 long	8	Fix to a minimum of three posts.		
Wingwall Top rails	Larch heartwood	GS	Dressed	None	Ex 150x35 2400 long	4	Fix to a minimum of three posts.		
Wingwall Middle rails	Larch seartwood	GS	Dressed	Nona	Ex 150x50 2400 long	16	Fix to a minimum of three		

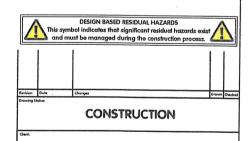
Inspection & Design Criteria					
RESIDUAL HAZARDS					
Speed Limit	25km/h				
Services	None				
MAINTENANCE & INSPECTION	Category C Bridge				
General Inspection	by Grade 3 Inspector every two years.				
Principal Inspection	by Grade 3 Inspector every six years.				
DESIGN CRITERIA					
Catchment Area	15.57km²				
Bed Gradient	1 in 40				
Flood Return Period	lin 100 yrs				
Load Capacity	Load Model 1 to BS EN 1991-2. This includes any Construction and Use vehicle allowed or				
	the public road without restriction.				
Design Life	50 years				
Completion Date	20				

A1 - DO NOT SCALE



LOCATION PLAN

- CONCRETE In DECK: to comply with EN206:BS8300. Mix C32/40, 52 slump, 320kg/m² coment and water coment ratio 0.55, 3.5% cir antrainment, fozea-them resistant aggregate, 40mm cover. Surface finish, all hidden faces FI, visible faces FS.
- CONCRETE in ABUTMENTS/WING WALLS: to comply with EN206-8S855 Mix RC35, 52 stump, 280kg/m² coment and water coment ratio 0.6, 3.5% air entrainment, freez-chlow resistant opgragate, 40mm cover. Surface finish, all hidden faces FI, visible faces F5.
- Steel reinforcement to BS 4449:2005. Min. cover to reinforcement to be 40mm, and bent in accordance with BS 8666:2005. Dowel bars to be stainless stoel and in accordance with BS6744:2001. 20mm diameter ribbed bars with a yield strongth of 500V/rrm*.
- Backfill to aborments to be free draining granular material. Backfill not to be taken above beam bearing level until beams are fixed.
- STRUCTURAL STEEL: manufactured to Execution Class 2, BS EN 1090-2.
 Shell beams, stifflener plothes and diaphragm plother must be made from Grade SS35 00 steel. Bost Orlates may be made from S275 JO. All steel to BS EN 10 025. Welds to BS EN 1011-2:2001.
- I. IMBER All fimber to be supplied with appropriete CE marking. Where specified holes to be drilled before treatment. All softwood except Larch heartwood to be treated with Tendrity Eproservative. Cuts and holes made on site to be treated with Ensels 3450. Hearted litheber must spen di least 3 posts and joins on adjacent rais must not be on the same past. Allevenes for cuting waste is the contractors responsibility.
- 14. Couch scraws to be dipped in light oil before use.
- 15. Dasign speed limit on bridge to be 25km/h.
- 17. The new bridge is located at NT 918 101.



FORESTRY COMMISSION

CIVIL ENGINEERING CENTRAL SERVICES



EH25 95Y Tel: 0300 067 5917 (M C) Tel: 0300 067 5998 (G W)

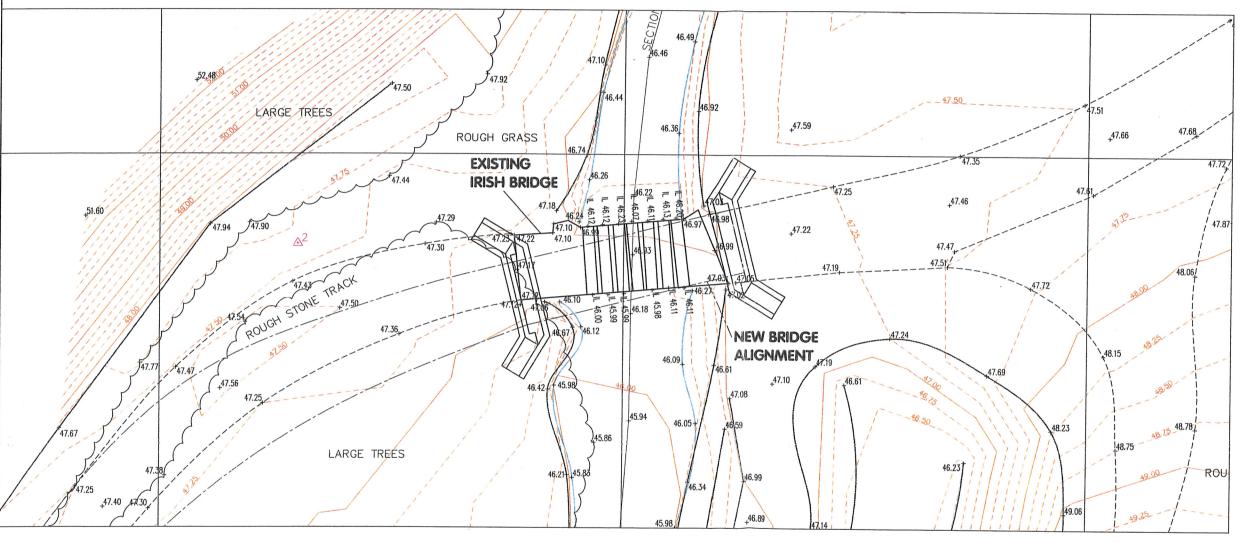


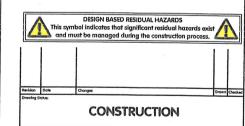
YOKE BURN **NORTHUMBERLAND** NORTH ENGLAND FOREST DISTRICT

44T ROAD BRIDGE 10.5m CLEAR SPAN **GENERAL LAYOUT & DETAILS**

	MC Checked: Grains White	Scoles: 1:100: 1:50:	19th August 201
E	CECS/14:	Ferition:	







FORESTRY COMMISSION **CIVIL ENGINEERING CENTRAL SERVICES**



Northern Research Station Roslin, Midlathian EH25 9SY Tel: 0300 067 5917 (M C) Tel: 0300 067 5998 (G W)

YOKE BURN NORTHUMBERLAND NORTH ENGLAND FOREST DISTRICT

44T ROAD BRIDGE 10.5m CLEAR SPAN **SURVEY & LOCATION DETAILS**

MC ob No: CECS/1421 Date: 14th Oct 2014 schoot Graems White CECS/1421/05