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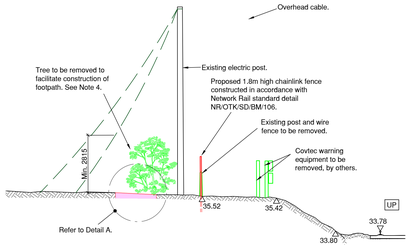
Vegetation Removal Notes

Vegetation noted on the drawings for removal, is to be removed as follows (unless noted otherwise elsewhere on the drawing) and in accordance with the TEP TWPS:

1. The main stems of the vegetation that is to be removed shall be cut at the base of the root using a hand saw, as close to the face of the structure, or ground level, as possible.
2. If the root is small, it should then be painted or sprayed immediately after cutting with the chosen herbicide. If the root is of reasonable size, up to 200mm in diameter, drill a hole into the stump 80mm long and fill with herbicide solution, then plug. Should the root be wider than 200mm, a series of holes can be drilled into the stump, making sure the holes are at least 30mm in from the cambium (the formative layer of cellular tissue that lies between the young wood and the outer surface layer).
3. The stumps should be treated with a herbicide solution that is poured into holes and the holes plugged. The treatment should occur as soon as possible after cutting and as a maximum must be treated within one hour of the stems being cut. If an approved herbicide has not already been applied to the vegetation that has already been cut back, the stems should be re-cut and holes drilled in accordance with note 1, prior to the application of the herbicide.
4. Herbicide solution to be glyphosulphate or an alternative Network Rail approved herbicide.
5. An alternative to notes 2 to 4 above, roots and stems to be treated with an 'ECOPLUG MAX' application in strict accordance with the manufacturer's recommendations.

Note:

1. Where 'stumps' are present in the location of the proposed paths, stumps/roots to be fully removed.
2. Vegetation removal is to be undertaken in accordance with NR/GN/OTK/6202.



Section 2-2

Scale 1:100

Ref	Species	Height (mm)	Canopy Ground Clearance	Stem Diameter (or range)	No. of stems/ individuals	Crown Spread North	Crown Spread South	Crown Spread East	Crown Spread West	Lowest Branch Height	Lowest Branch Direction	Maturity	Condition	TWPS Tree Works
		(m)	(m)	(mm)	arising below 1.5m	(m)	(m)	(m)	(m)	(m)	(N,S,E,W)	Young, Middle Age, Mature	Good, Fair, Poor, Veteran	In response to development
Trees														
T1	Pedunculate oak	6	2.5	310	1	4	3	4.5	3.5	2	E	Middle Age	Good	Remove.
T2	Elder	3	1	230	1	1.5	1.5	1	1	0.5	E	Middle Age	Good	No works required. Retain and protect.
T3	Pedunculate oak	10	3.5	460	1	5	5	4.5	5	2.5	W	Middle Age	Good	No works required. Retain and protect.
Groups														
G1	Elder	2 to 4	0	80 to 140	10							Middle Age	Good	No works required. Retain and protect.
G2	Silver Birch, Common Hawthorn, Pendunculate	6 to 12	1.5	240 to 450	10							Middle Age	Good	No works required. Retain and protect.
G3	Common hawthorn	2 to 3.5	0	100 to 110	5							Middle Age	Good	No works required. Retain and protect.
G4	Norway Maple, Pendunculate oak	7 to 12	2.5	340 to 450	8							Middle Age	Good	Remove 1 tree (northernmost tree) from northern compartment of group as shown on D10296.01.001. Retain all other trees in group and protect.
Woodlands														
W1	Common hazel, Scots pine, Hybrid black poplar, Pedunculate oak, Crack willow	4 to 18	2	100 to 500	200							Middle Age	Good	No works required. Retain and protect.

Tree Works Schedule

Taken from 'Tree Works Protection Scheme', Version 4.0 by The Environment Partnership

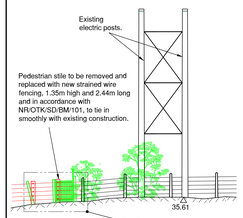
Health and Safety Symbol Legend

- Indicates a residual risk requiring a compulsory action.
- Indicates a residual risk for information.
- Indicates a residual risk requiring a prohibitive action.
- Indicates a residual risk as a warning.

Residual Hazard Information

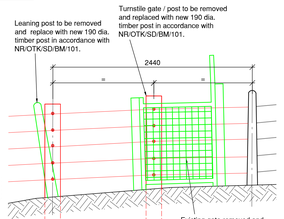
These notes describe the significant residual risks relating the construction, maintenance and or decommissioning of the works shown on this drawing.

1. Working on a live railway.
2. Working adjacent to a live highway.
3. Typical risks associated with carrying out works of this nature: dust, noise, manual handling, working in close proximity to the public, slips trips and falls.
4. Services - buried or otherwise.
5. Working in a private land area.
6. Temporary security of the railway.
7. Removal of vegetation adjacent to a live electrified railway.
8. Working in close proximity to existing third party power cables - risk of electrocution / impact with existing support structure.



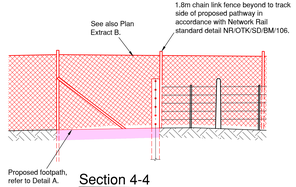
Section 3-3

Scale 1:100



Extract A

Scale 1:25

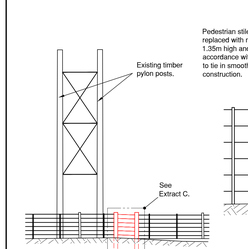


Section 4-4

Scale 1:50

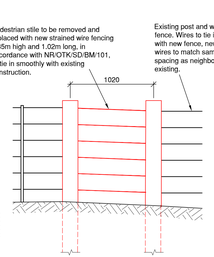
Detail B

Scale 1:50



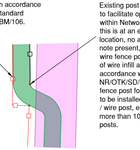
Section 5-5

Scale 1:100



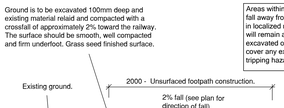
Extract C

Scale 1:25



Plan Extract B

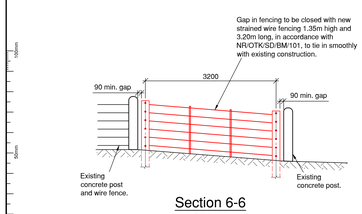
Scale 1:250



Detail A - Typical Section P1 Unsurfaced Footpath

Scale 1:25

Areas within root protection zone will have cross fall away from the tree trunk and this may result in localized negative cross fall. Ground surface will remain as existing or made up with material excavated outside the root protection zone to cover any exposed roots which may form a tripping hazard - Refer to Tree Works for details.



Section 6-6

Scale 1:50

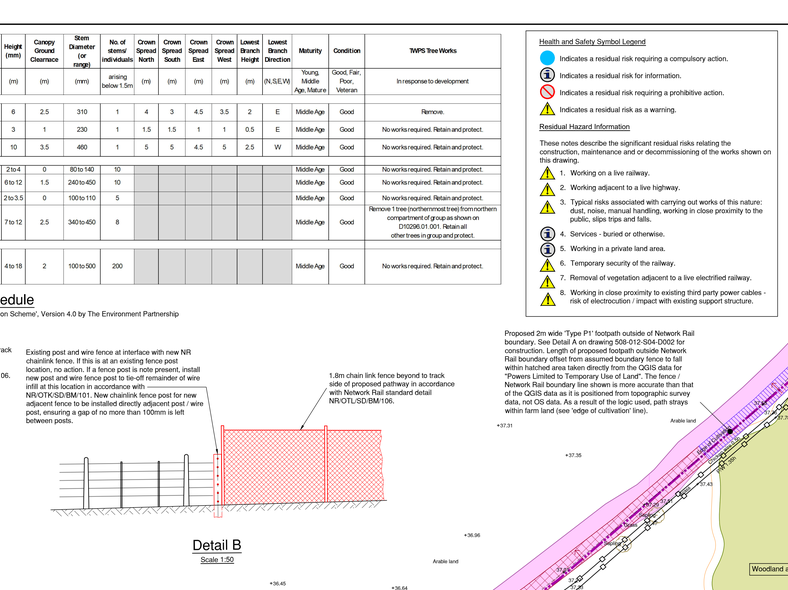
Photo 6

Photo 7

Photo 8

Topographical Survey Legend

BrP	Brace Post	KO	Kerb Outlet	P/R	Post & Rail Fence
CL	Cover Level	LP	Lamp Post	P/W	Post & Wire Fence
EP	Electric Pole	MH	Manhole	RS	Road Sign
GG	Gully Grate	MP	Marker Post	SI	Sign Post
IC	Inspection Cover	OHL	Overhead Line (approx)	SY	Cable Stay
IL	Invert Level	PO	Post	TP	Telegraph Pole


Proposed 2m wide 'Type P1' footpath outside of Network Rail boundary. See Detail A on drawing 508-012-S04-D002 for construction. Length of proposed footpath outside Network Rail boundary offset from assumed boundary fence to fall within hatched area taken directly from the QGIS data for "Powers Limited to Temporary Use of Land". The fence / Network Rail boundary line shown is more accurate than that of the QGIS data as it is positioned from topographic survey data, not OS data. As a result of the logic used, path strays within farm land (see 'edge of cultivation' line).
Footpath to west of railway = 340m long - continued on 508-012-S04-D001.
Photo 6
Footpath set-out to ensure within 'Powers Limited to Temporary Use of Land' area.
Proposed footpath to tie in smoothly with existing Footpath 018 Bentley.
An extinguishment marker plate is to be installed here denoting the closure of the path leading to the closed level crossing.
English Oak
Oak 12h
Arable land
New strained wire fencing 1.35m high and 3.57m long, in accordance with NR/OTK/SD/BM/101, to tie in smoothly with existing construction.
P129
E: 612182.954
N: 238246.719
W1#
Woodland area not surveyed.
Approximate location of NR boundary and fence. Topographic survey not carried out within this area.
Down to Ipswich
Up to Manningtree
Fence along this length set back from proposed right of way to provide sufficient clearance to trees along its length. See Note 9.
SOP-Fence
E: 612331.852
N: 238346.467
SOP8
E: 612332.827
N: 238347.996
SOP-Fence
E: 612328.286
N: 238323.793
SOP7
E: 612329.284
N: 238326.394
SOP-Fence
E: 612327.845
N: 238320.736
SOP6
E: 612329.038
N: 238323.603
SOP-Fence
E: 612326.210
N: 238326.463
Footpath to east of railway = 311m long - continued on 508-012-S04-D001.
Proposed 1.8m high chainlink fence constructed in accordance with Network Rail standard detail NR/OTK/SD/BM/106. Following the principles of this and BS 1722-1 that it refers to, RSA 'strainers' are required at each 'corner' / change in direction of the fence, or at max. 69m centres. All other posts are to be intermediate RSA posts. All Strainers must feature a Strut RSA. Post spacings generally at 3m c/c. Section of proposed fence within NR boundary to have foundation depth of 1.65m (with 3.55m long posts) in accordance with NR/L2/OTK/5100/03. Fence posts to be min. 2.2m from nearest tree trunk. See note 9.
See note 7.
English Oak sapling to be removed.
SOP5
E: 612323.442
N: 238285.020
Vegetation to be removed along length of proposed footpath in accordance with Vegetation Removal Notes to facilitate construction of proposed footpath.
SOP4
E: 612302.813
N: 238281.807
SOP3
E: 612321.706
N: 238260.440
SOP-Fence
E: 612321.379
N: 238281.354
Footpath locally reduced to maintain 1m clearance to top of embankment for a maximum length of 6m.
SOP-Fence
E: 612320.775
N: 238278.412
SOP2
E: 612321.369
N: 238277.297
SOP-Fence
E: 612320.466
N: 238276.691
English Oak trees to remain, No footpath excavation within 5m of tree trunk.
Section of fencing to be removed to facilitate new footpath construction. See Section 4-4.
SOP1
E: 612326.204
N: 238274.150
Fence posts to be min. 2.2m from nearest tree trunk. See note 9.
English Oak tree to remain.
English Oak sapling to remain.
Fence along this length set back from proposed right of way to provide sufficient clearance to trees and existing electrical poles along its length (approx. 38m). See Note 9.
Covtec warning equipment to be removed (by others). All level crossing signage to be removed.
Railway cutting slope to be made good in location of existing staircases (to be removed).
SOP-Fence
E: 612316.974
N: 238242.998
2no. English Oak saplings to be removed to facilitate construction of footpath, in accordance with Vegetation Removal Notes.
Photo 8
Type FP1 fingerpost, in accordance with the Network Rail - (Suffolk Level Crossing Reduction) Order - Design Guide.
P131
E: 612321.483
N: 238236.674
Photo 7
Pedestrian stile to be removed. New 1.8m high chainlink fencing to close off gap.
Proposed 1.8m high chainlink fence to continue to 10 metres south of level crossing, constructed in accordance with Network Rail standard detail NR/OTK/SD/BM/106. See Detail B for interface with existing post and wire fence.
Level crossing deck, 2no. timber board infill staircases and associated handrails to be removed.
All equipment associated with level crossings to be removed by others, following closure of the level crossing to the public
Pedestrian stile to be removed and replaced with new strained wire fencing 1.35m high and 1.02m long , in accordance with NR/OTK/SD/BM/101, to tie in smoothly with existing construction.
Stand of Sweet Chestnut trees
Hazel tree
Elm tree
Scots Pine trees
Unable to survey. Tree canopies fill.
Woodland edge
Fence & bank continue
Ditch
Sump
Grass
Arable land
Oak 7h
Oak 9h
Oak 10h
Oak 6h
Oak 5h
Oak 4h
Oak 3h
Oak 2h
Oak 1h
Ash 1h
Ash 2h
Ash 3h
Ash 4h
Ash 5h
Ash 6h
Ash 7h
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Ash