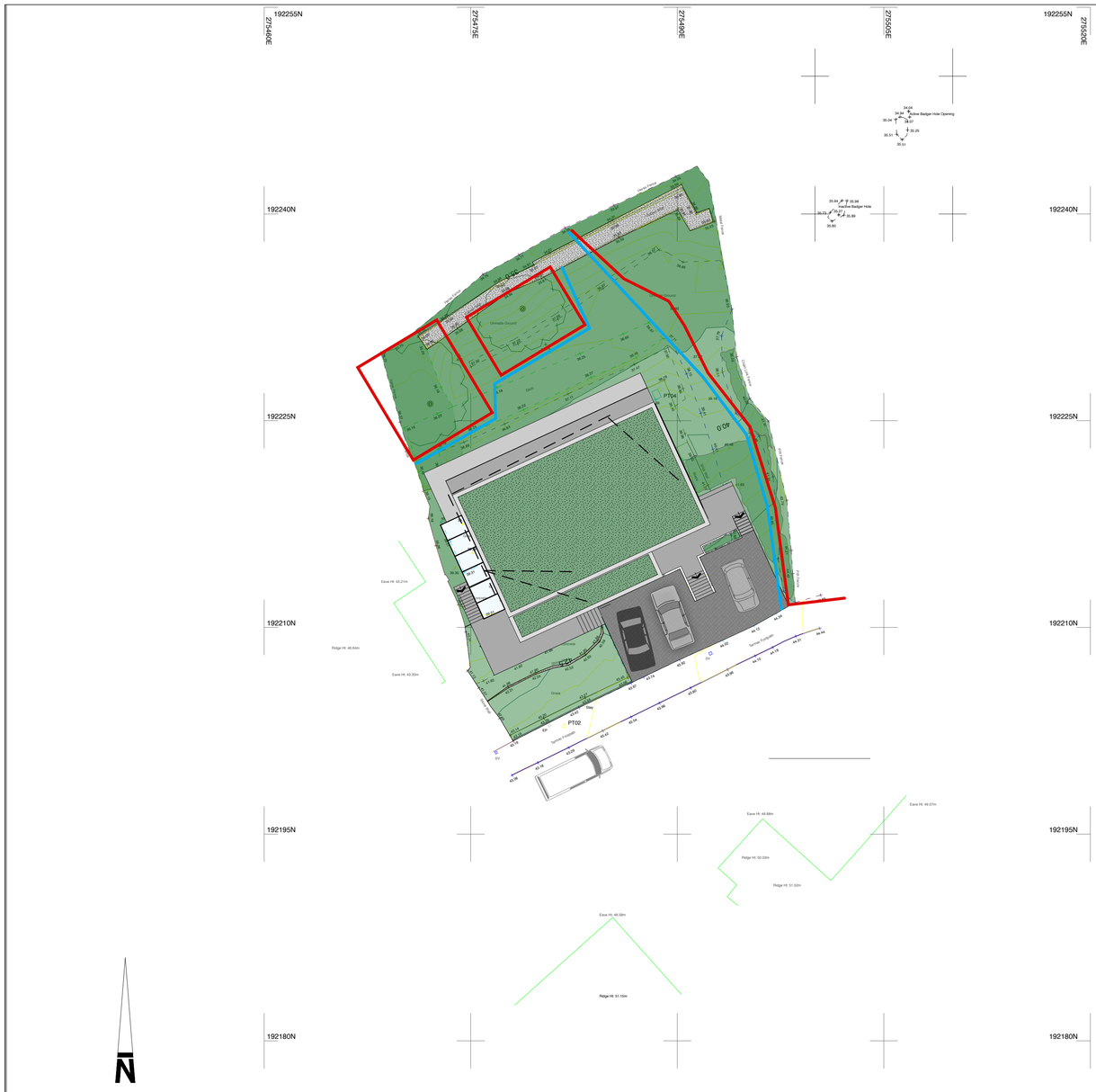


Topographical Survey

Station Coordinate List

Station	Easting	Northing	Level
PT02	275481.774	192202.847	43.39
PT03	275496.850	192214.301	44.01
PT04	275488.713	192227.249	39.40
PT05	275474.403	192219.753	39.39

Drawing Key

- Bin — Bin
- BH — Borehole
- BM — Benchmark
- B — Bollard
- CCTV — Camera / CCTV
- Col — Column
- Tree Trunk (Varying Sizes)
- DP — Downpipe
- DP/G — Downpipe / Gulley
- EP — Electic Post
- ER — Earthing Rod
- Gas — Gas Cover
- G — Small Gully
- IC — Inspection Cover (Round)
- JB — Junction Box
- LB — Letter Box
- LP — Lamp Post
- Mkr — Marker
- MS — Milestone
- P — Post
- RE — Rodding Eye
- RS — Road Sign
- SC — Stop Cock
- SP — Sign Post
- Stay — Stay
- S — Tree Stump
- Tap — Water Tap
- TL — Traffic Light
- TP — Telegraph Post
- Tree (Varying Sizes)
- TV — TV Point
- VP — Vent Pipe
- Wet Area
- Bottom of Bank
- Bin
- Bottom of Kerb
- Building Line
- Boundary
- Edge of Path/ Back of Pavement
- Centre Line of Road
- Telephone Call Box
- Canopy Line
- Change of Surface
- Door
- Overhead Electric Cable
- Fence
- Gabian Wall
- Gate
- Gutter / Drain
- Hedge / Vegetation
- Metal Railings
- Open Sided Building
- Quarry Face
- Retaining Wall
- French Drain
- Sign
- Step
- Style
- Top of Bank
- Top of Kerb
- Watercourse Bottom
- Watercourse Top
- White Line
- Wall
- AV — Air Valve
- BT — British Telecom Cover
- CATV — Cable TV Cover
- FH — Fire Hydrant
- Gas — Gas Valve
- IC — Inspection Cover
- JB — Junction Box
- KO — Kerb Outlet
- G — Gully
- IC — Inspection Cover (Triangle)

REVISIONS/UPDATES & ASSOCIATED DETAILS

Dwg No	Details	By	Date
-	-	-	-

LANDMARK
SURVEYS WALES
THE SURVEY PEOPLE
~ www.lmswalesltd.co.uk ~ enquiries@lmswales.co.uk ~ Tel: 01554 821590

JOB TITLE

37 St Catherines Road
SA12 8AT

SHEET SIZE & SCALE

DATE SURVEYED
June 2024

DRAWING NUMBER
7018

DRAWN BY
KP

CLIENT

ASR Projects

- Trees for removal to be identified from the drawing and marked by an arboriculturist.
- No vehicles to enter the grass verge or root protection zone during tree removal or fencing installation/removal.
- Fencing to be installed prior to any construction works (including demolition, materials delivery, works compound installation).
- The location of the tree protective fencing is indicative only and must not be directly measured from this plan. Its true location must be surveyed accurately on site and where applicable be measured from the tree centre by the stated dimension value.
- Fencing to remain in place until all construction works have ceased.

BS5837: 2012 Recommendations (extract)

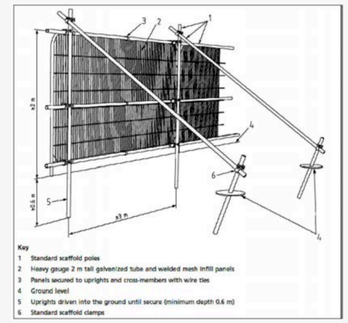
6.2.2 - Barriers

6.2.2.1 - Barriers should be fit for the purpose of excluding construction activity and appropriate to the degree and proximity of work taking place around the retained tree(s). Barriers should be maintained to ensure that they remain rigid and complete.

6.2.2.2 - The default specification should consist of a vertical and horizontal scaffold framework, well braced to resist impacts, as illustrated in Figure 2. The vertical tubes should be spaced at a maximum interval of 3m and driven securely into the ground. Onto this framework, welded mesh panels should be securely fixed.

Fencing Specification

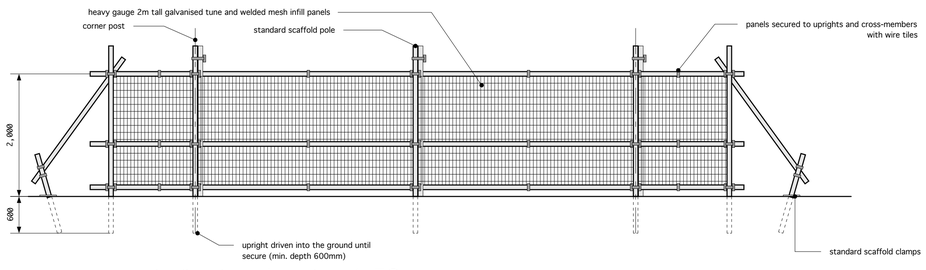
The fencing will comprise of standard GS7/Heras styled steel self-supporting security fencing panels. The panels must be securely clamped together. They must be secured to the ground with robust steel stakes to a depth of 600mm. These are securely clamped to the panels. **The use of steel mesh panels in conjunction with just clamps and self supporting bases is not acceptable for use.** They must be secured to the ground with stakes to prevent movement. Where stated, additional bracing of the panels must use angled scaffolding poles to prevent further movement (see diagram).



Why Is Fencing Erected Around Trees?

- The major cause of damage to trees on construction sites is due to soil compaction.
- Roots use the spaces between soil particles to obtain Oxygen, Water and Nutrients.
- Heavy plant and machinery compresses (compacts) the soil, squashing out the air spaces and preventing root function.
- A compacted soil structure will stay compacted.
- Consequently the tree suffers and will show signs of branch die-back.
- Symptoms such as die-back may take several years to appear.
- Soil compaction over roots can be prevented by maintaining a fenced exclusion zone over the tree roots.
- The exclusion zone is calculated using British Standard 5837.
- Protective Fencing is installed around the calculated area.
- Protective Fencing is a condition of planning approval, if it is removed or repositioned the construction firm is in breach of a condition and may be subjected to legal action.

DRAWING TO BE READ IN CONJUNCTION WITH
Tree Survey and Tree Constraints Plan prepared by Treescene as dated 25/07/2024

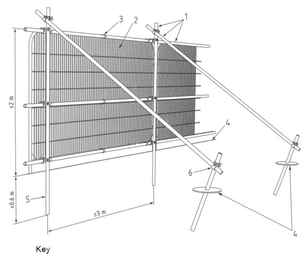


indicative elevation 1:50

actual size to be determined on site in accordance with marked locations above

7.0 TREE PROTECTION – FENCING DETAIL

7.1 BS 5837:2012 Figure 1: Default specification for protective barrier

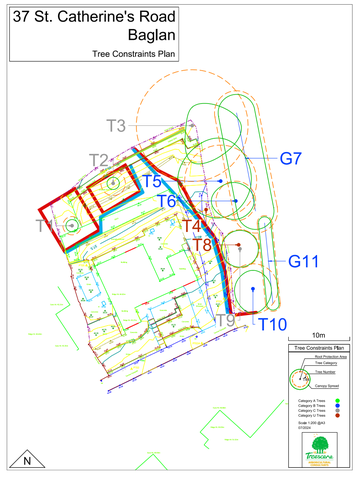


Key

1 Standard scaffold pole
2 Heavy gauge 2m tall galvanised tube and welded mesh infill panels
3 Panels secured to uprights and cross-members with wire ties
4 Ground level
5 Uprights driven into the ground until secure (minimum depth 0.6m
6 Standard scaffold clamps

tree protection fence

root protection area



Rev	Date:	Action:
A	20.02.26	protective fencing line added to east boundary. TCP added to drawing

This drawing is copyright.

Dimensions to be checked on site and any discrepancies reported to the Architect immediately .

Do not scale, use figured dimensions only.

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D & R Morgan	
37 St Catherine's Road	
site work tree protection	
1:1250 & 1:200 @ A1	
2285-085	A