

Specification

Height Restrictive Barriers



The 2 posts are to be at least 120mm x 120mm rectangular hollow section steel posts hot dipped galvanised and polyester powder coated RAL 1023 yellow and set into a concrete foundation with hanging pins to hold the openable arm. The ground surfaces are to be made good around the new posts. The openable arm is to be at least 80 x 80mm rectangular hollow section steel hot dipped galvanised and polyester powder coated RAL 1023 yellow and fixed to the post with an adjustable hinge. The openable arm is to include a gate catch or heavy duty hasp and staple to allow it to be padlocked to the closing post with the customers own padlock. This will allow the City of Sunderland's Ground Maintenance and Cleansing Services vehicles access through the barriers to carry out their daily work. The height from the ground surface to the underside of the openable arm is to be 2.10m. A yellow and black hazard sign is to be bolted to the arm and is to say MAXIMUM HEIGHT 2.1m, 6-10". The widest barrier is 7.3m long.

Metal Low Level Knee Rail Fencing



The posts are to be 100mm x 100mm rectangular hollow section steel posts complete with a cap and filled with concrete to prevent vandalism 1600mm in length. The posts are to be fitted 600mm out of the ground and set 1000mm into the ground into a concrete foundation and are to be complete with 60mm circular hollow section steel tube rail. The ground surfaces are to be made good around the new posts. The rails are to be welded onto all posts. The posts where possible are to be at 1.50m centres. All posts and rails are to be hot dipped galvanised and painted dark green.

Drop Down Bollards



The bollards are to be surface mounted steel and complete with a bracket for the Customers own padlock similar to the one shown in the above photo. The post is to be square or round 100mm x 100mm with an overall height of 750mm finished polyester powder coated yellow. It is to be surface mounted onto a 300mm square concrete foundation which is to be 300mm deep and fixed to the concrete with concrete fixings. The bollards are to be of a good quality, grade and weight.

The Estimate Required and Work Required to be done can be summarized as follows :-

Height Restrictor Barriers – 7 required in Total at varying lengths which are specified below.

Drop Down Bollards – 5 required in Total to be fitted where mentioned below.

Metal Low Level Knee Rail Fencing – Total Length 552 linear metres is required + 2 x 3 metre wide arms fitted into the fencing to allow the City of Sunderland's Grass Cutter access at varying lengths mentioned below. Therefore Total Length is 558m linear metres. Most of the fencing is to be fitted into a soft dig.

The Project aims to Limit/Stop access to various sites as detailed below :-

Areas 1-7 in James Steel Park around the Chartershaugh Bridge Area where height restrictor barriers, metal low knee rail level fencing, and drop down bollards limit access.

Area 8 at Shepherd Way Car Park where a height restrictor barrier and metal low level knee rail fencing limit access to the car park.

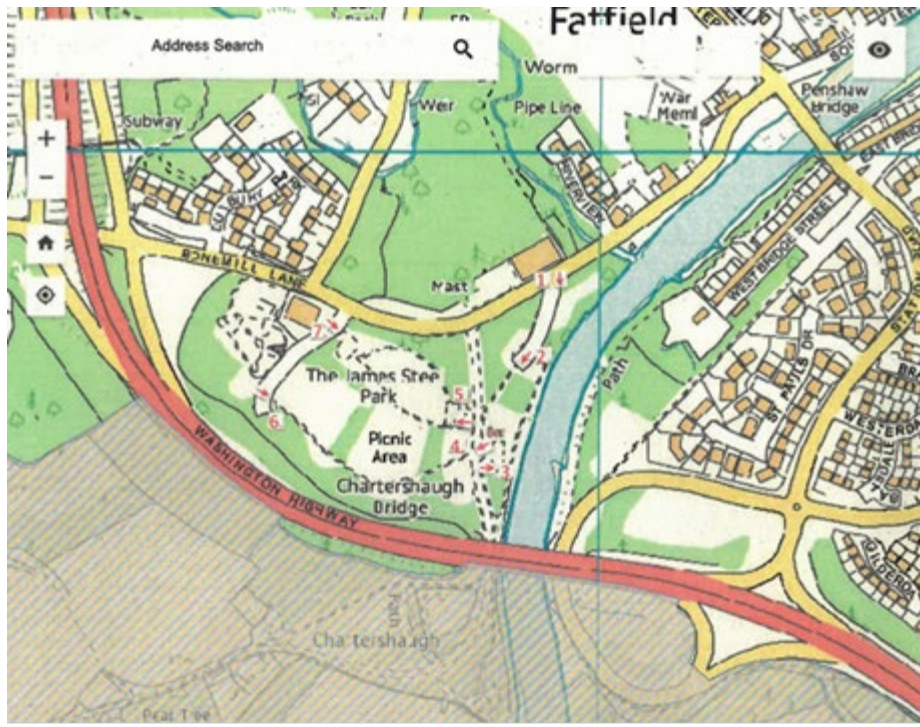
Area 9 at Staithes Road Car Park where a height restrictor barrier and metal low level knee rail fencing limit access to the car park.

Area 10 at Viewpoint Car Park where a height restrictor barrier and metal low level knee rail fencing limit access to the car park.

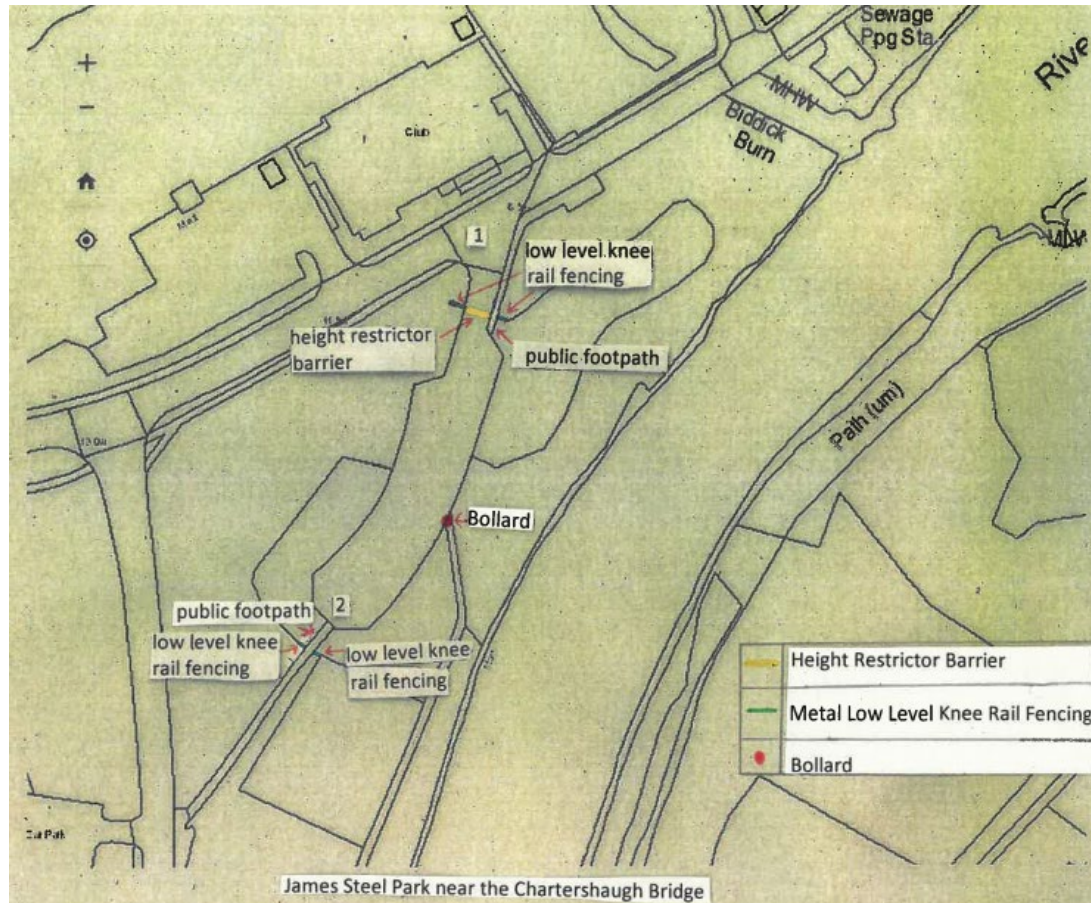
Area 11 at Rickleton Park where metal low level knee rail fencing and a drop down bollard limit access to the playing field.

Next to Areas 1-5 in James Steel Park where further metal low level knee rail fencing limit access to grassed areas.

Location Plan Area nos 1-7 James Steel Park near the Chartershaugh Bridge



Areas 1. And 2.



Height Restrictor Barrier :- Supply and fit 1 2.10m (height to underside of arm) x approx. 7.30m wide height restrictor barrier, as specified above.

Bollard :- Supply and fit 1 drop down bollard where shown on the above location plan , as specified above.

Low Level Post and Rail Fencing :- Supply and fit 2 separate lengths of low level post and rail fencing as specified above at Area 1. 1 length is to be approx. 0.80m long and the other length is to be approx. 5.6m long.

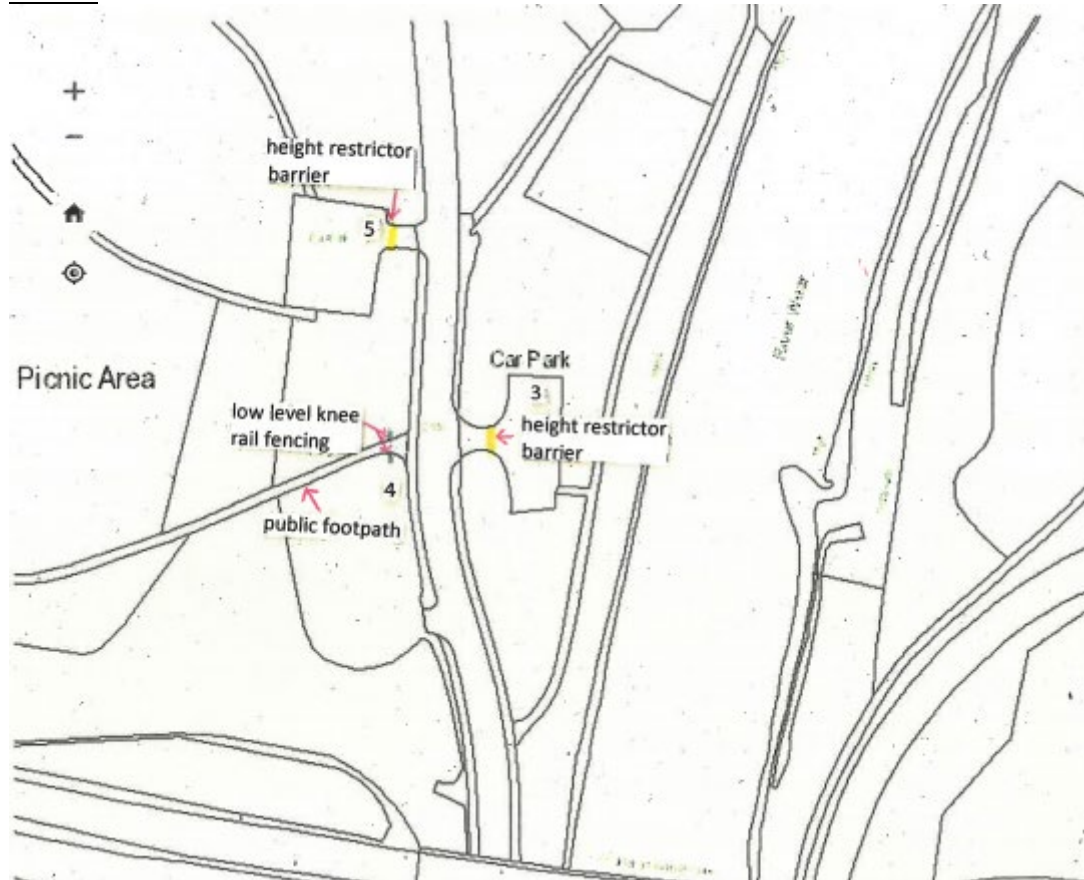
The existing footpath is to be left with an opening gap of 1.50m for public access.

Area 2.

Low Level Post and Rail Fencing :- Supply and fit 2 separate lengths of low level post and rail fencing as specified above at Area 2. Both lengths are to be approx.. 2.00m long .

The existing footpath is to be left with an opening gap of 1.50m for public access.

Area 3.



Height Restrictor Barrier :- Supply and fit 1 2.10m (height to underside of arm) x approx..6.0m wide height restrictor barrier as specified above.

Area 4.

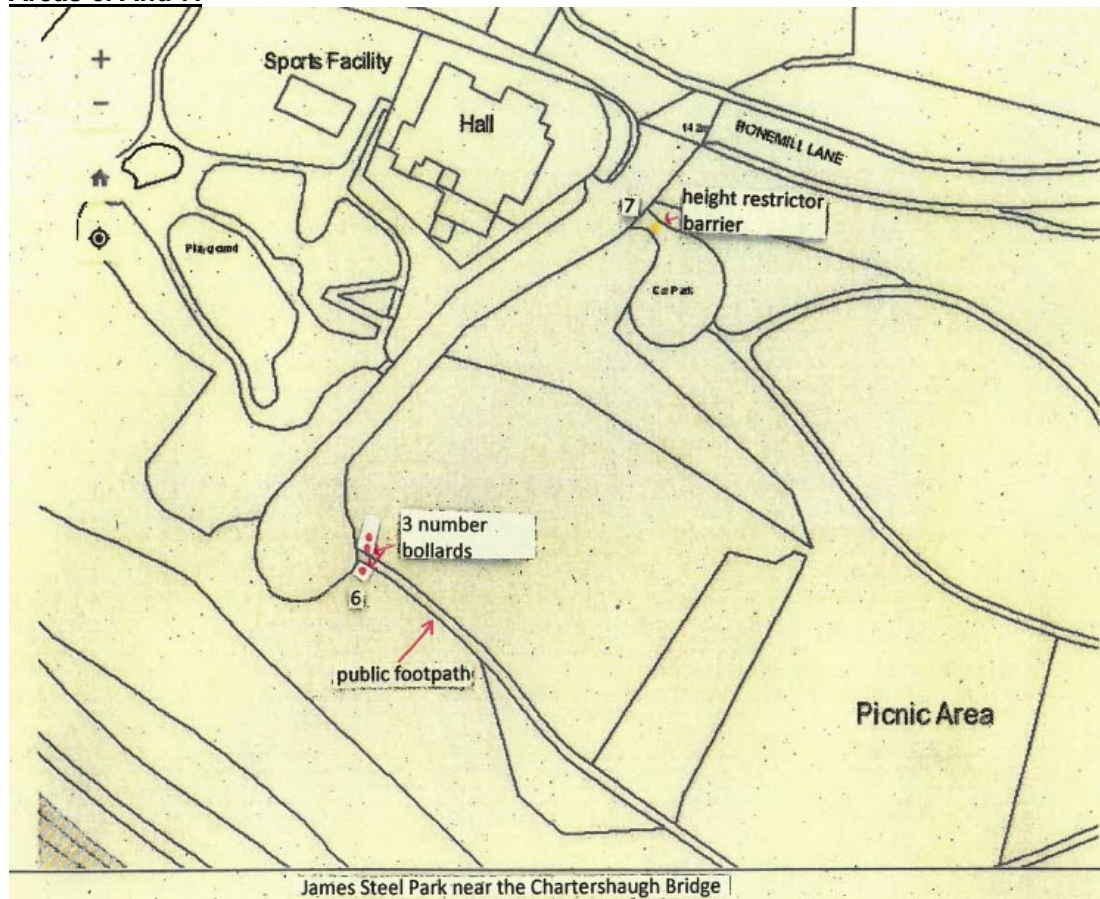
Low Level Post and Rail Fencing :- Supply and fit 2 separate lengths of low level post and rail fencing as specified above at Area 4. Both lengths are to approx. 2.00m long.

The existing footpath is to be left with an opening gap of 1.50m for public access.

Area 5.

Height Restrictor Barrier :- Supply and fit 1 2.10m (height to underside of arm) x approx. 5.30m wide height restrictor barrier, as specified above.

Areas 6. And 7.



Area 6.

Bollards :- Supply and fit 3 drop down bollards where shown on the above location plan, as specified above.

The existing footpath is to be left with an opening gap of 1.50m for public access.

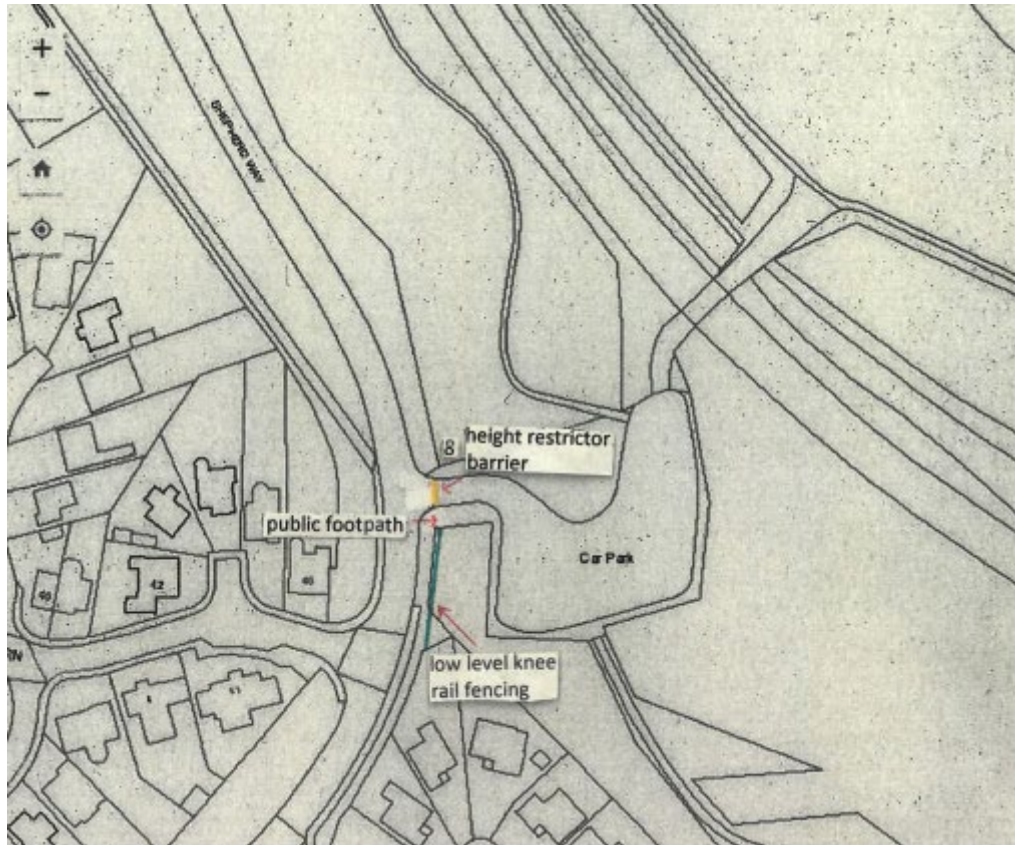
Area 7.

Height Restrictor Barrier :- Supply and fit 1 2.10m (height to underside of arm) x approx.. 5.30m wide height restrictor barrier, as specified above.

Location Plan for both Shepherd Way Car Park and Staithes Road Car Park Areas 8. And 9.



Area 8. Shepherds Way Car park

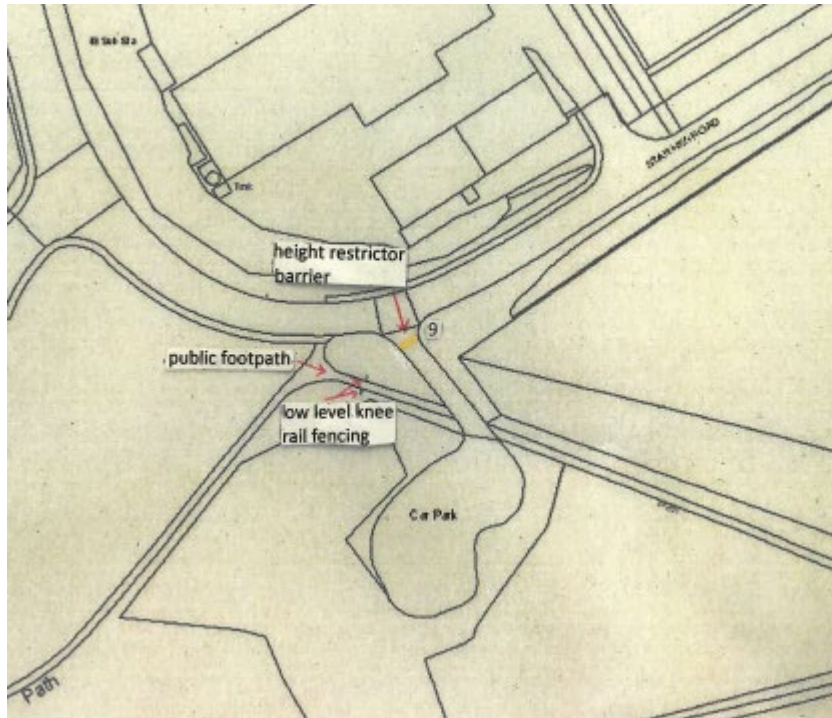


Height Restrictor Barrier :- Supply and fit 1 2.10m (height to underside of arm) x approx. 6.50m wide height restrictor barrier, as specified above.

Low Level Post and Rail Fencing :- Supply and fit an approx..27m long length of post and rail fencing as specified above.

The existing footpath is to be left with an opening gap of 1.50m for public access.

Area 9. Staithe Road Car Park



Height Restrictor Barrier :- Supply and fit 1 2.10m (height to underside of arm) x approx. 5.50m wide height restrictor barrier, as specified above.

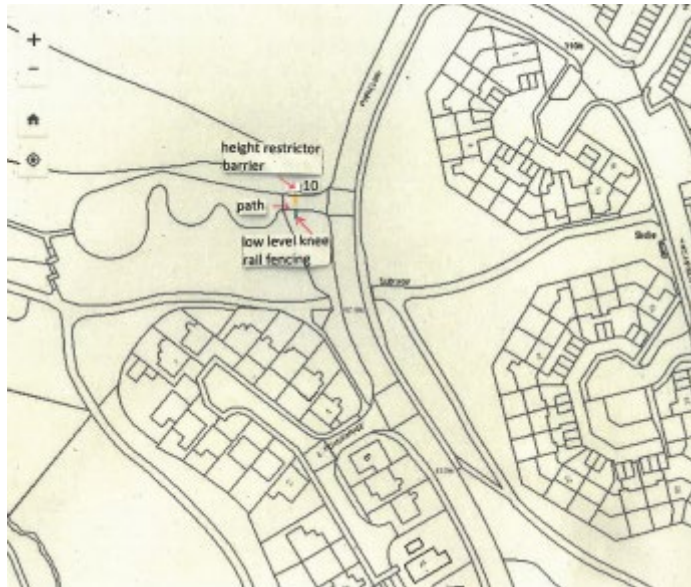
Low Level Post and Rail Fencing :- Supply and fit 2 separate lengths of low level post and rail fencing as specified above. Both lengths are to be 1.00m long.

The existing footpath is to be left with an opening gap of 1.50m for public access.

Location Plan for Viewpoint Car Park. Area 10.



Area 10. Viewpoint Car Park



Height Restrictor Barrier :- Supply and fit 1 2.10m (height to underside of arm) x approx. 5.00m wide height restrictor , as specified above.

Low Level Post and Rail Fencing :- Supply and fit an approx. 4.00m long length of post and rail fencing as specified above.

An opening gap of 1.50m is to be left for public access between the height restrictor barrier and low level post and rail fencing.

Location Plan for Rickleton Playing Field. Area 11.

Area 11. Rickleton Park

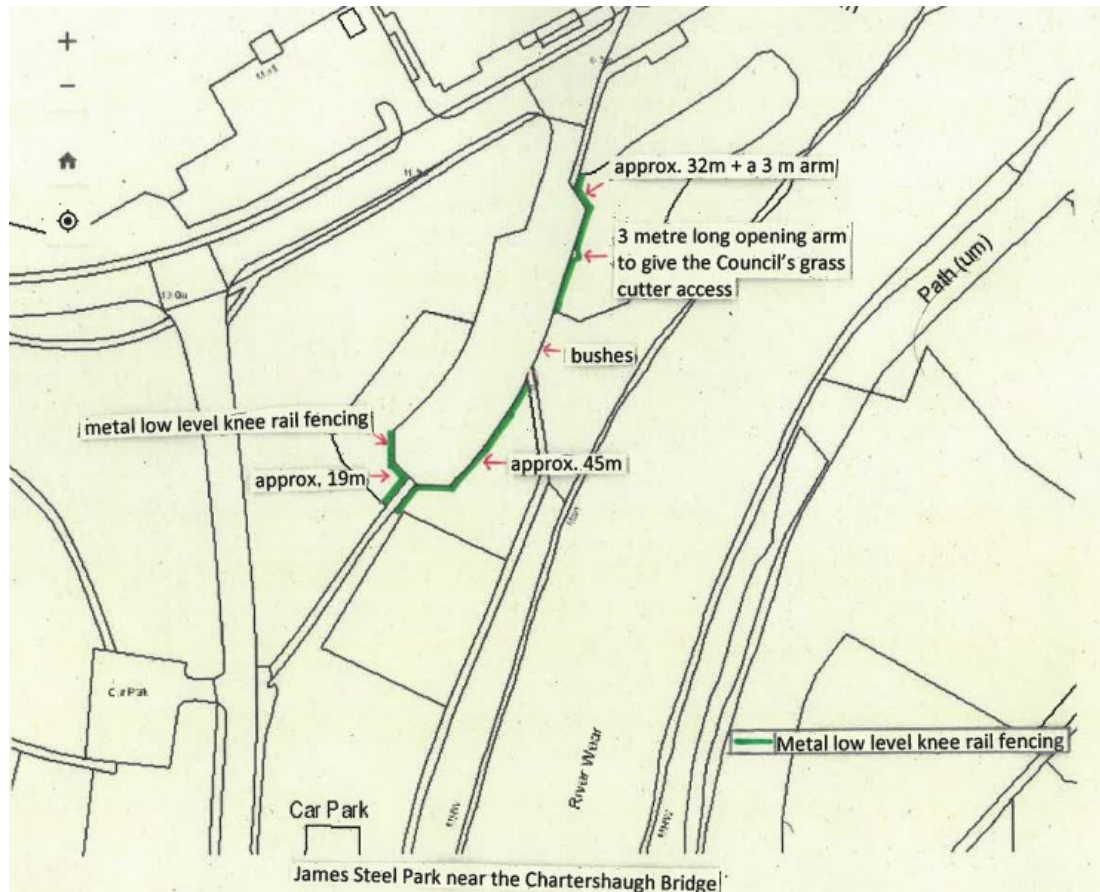


Low Level Post and Rail Fencing :- To Bonemill Lane side supply and fit an approx. 162m long length of post and rail fence as specified above. Also supply and fit a 1 600mm high x 3.00m wide opening arm/rail into this fencing to match existing fencing with 2 posts and a shrouded locking area for customers own padlock next to drop kerb near the roundabout to allow the City of Sunderland Grass Cutter access onto the land.

To Vigo Lane side supply and fit 2 separate lengths of low level post and rail fencing as specified above. 1 length is to be approx. 4m long and the other length is to be approx 7m long .

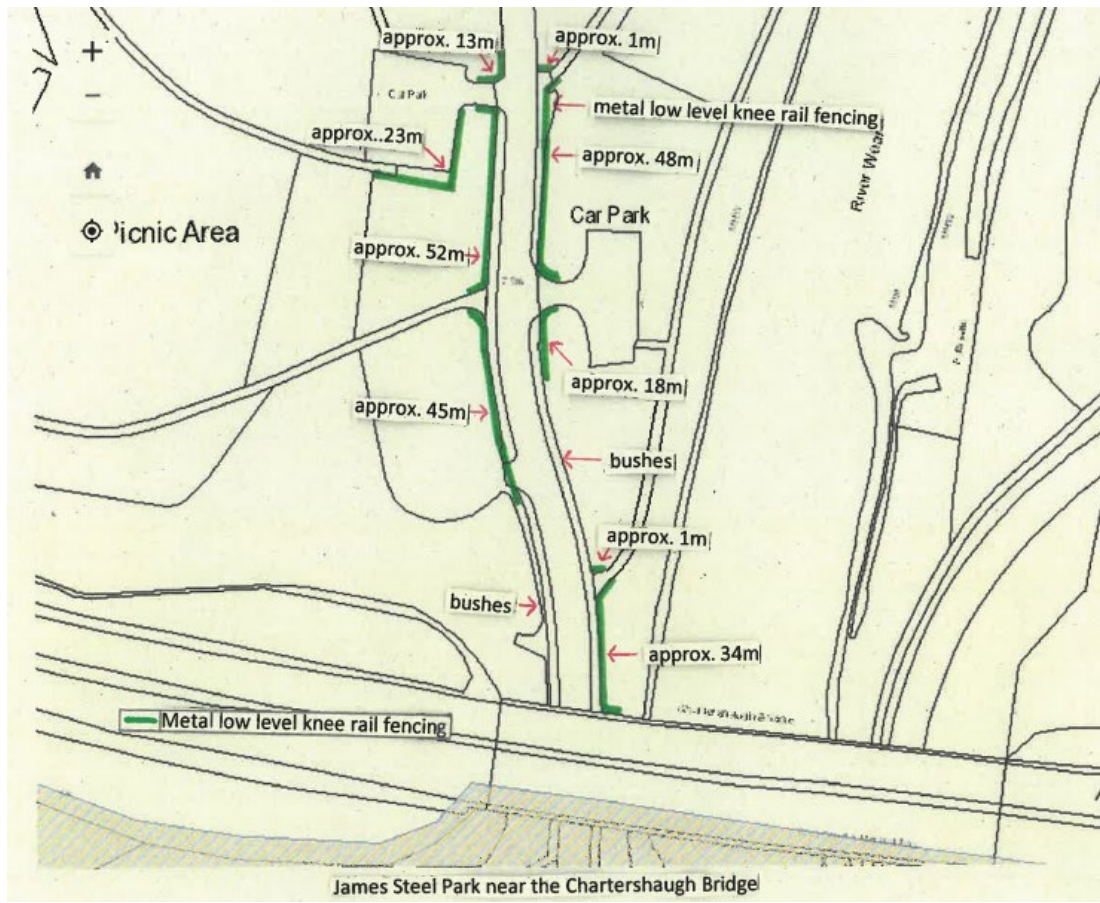
Bollard :- Supply and fit 1 drop down bollard where shown on the above location plan, as specified above next to church between the tree and the low level brick wall on the public footpath.

Additional Sections of Metal Low Level Knee Rail Fencing to be fitted at Areas 1 and 2. in James Steel Park near the Chartershaugh Bridge.



Low Level Post and Rail Fencing :- Supply and fit 3 separate lengths of post and rail fencing as specified above . 1 length is to be approx. 32m long + an approx. 3m wide opening arm to match existing fencing is to be fitted into this length of fencing., Another length is to be approx. 45m long and the third length is to be approx. 19m long.

Additional Sections of Metal Low Level Knee Rail Fencing to be fitted at Areas 3,4 and 5. in James Steel Park near the Chartershaugh Bridge.



Low level Post and Rail Fencing :- Supply and fit 9 separate lengths of low level post and rail fencing as specified above. The lengths are to be approx. 1m,48m, 18m,1m,,34m,45m,52m, 23m and 13m long lengths of fencing.