



Historic Building Recording at Stonebridge Stadium, Stonebridge Road, Northfleet, Kent

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Figure 7. OS map 1955

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Summary

SWAT Archaeology has been commissioned by Ebbsfleet United Football Club to carry out a programme of historic building recording at the Stonebridge Stadium, Stonebridge Road, Northfleet in Kent.

The site is currently occupied by a number of buildings associated with the sites use as a football stadium. The site is of some significance due to its age, interesting features and historic development. It was therefore required that a detailed record be made of some of the buildings on the site, prior to their redevelopment or demolition. This would serve to mitigate the negative effects of the demolition of the buildings by 'preservation by record'.

The following buildings and structures have been identified for recording in the SWAT Building Recording Specification issued in 2015:

- Stonebridge Road Stand (Phase 1A)
- Plough End Stand (Phase 1B)
- Main Stand (Phase 2)

A drone survey of the site has been carried out and can be viewed here:

<https://vimeo.com/132138252>



Google Earth 07/09/2013 at a eye altitude of 270m

1 INTRODUCTION

1.1 Project background

1.1.1 Conditions 23 and 24 of Planning Permission 20150081 for the redevelopment of the Ebbsfleet United Football Club (EUFC) Stadium, Stonebridge Road, Northfleet, Kent, DA11 9GN require the submission of a written specification and timetable for building recording prior to the commencement of Phase 1A (condition 23) and Phases 1B, 1C and Phase 2 (condition 24). A specification for Historic Building Recording was formally submitted to Gravesham Borough Council pursuant to conditions 23 and 24 of Planning Permission 20150081. Initial comments received from KCC Heritage have been incorporated and an updated version issued on 09/06/2015 which it is understood is now acceptable to the Authorities to enable the discharge of conditions 23 and 24. This report has been prepared in accordance with the agreed building recording specification.

1.1.2 The requirements for building recording of the existing stands which are proposed for demolition to facilitate the phased provision of new stands has been discussed with the Gravesham Borough Council (GBC) Planning Officer and the Kent County Archaeologist prior to the determination of the planning application. These discussions confirmed that an English Heritage Level 2 building recording was appropriate, given that none of the existing stands are either statutory or locally listed but that they may possess some heritage interest reflecting the origins of football and leisure facilities for the Northfleet and Ebbsfleet community.

That interest, especially for a football stadium is the concept of the spirit of a place and emanates from the Roman term *genius loci*, and it may exist: many objections at public inquiries are concerned with the perceived desecration of the spirit of a place. Yet the spirit of a place is scarcely enshrined within our planning system- at best it is covered by the concept of 'local distinctiveness'.

Both English Heritage and the National Trust are committed to producing succinct 'spirit of place' statements that encapsulate what is special about the locations within its stewardship and using them in decision making.



Plate 44. Northfleet (4) Sheppey (1) 9th October 1920

One has only to stand on the pitch of the Stonebridge Football Stadium on a quiet afternoon to imagine the roar of the crowd on past matches long gone.

1.1.3 The building recording specification (SWAT 2015) sets out a set of standards and requirements for the completion of the Level 2 historic building recording programme and was submitted pursuant to Conditions 23 and 24 of Permission 20150081. The intention is to provide a record of the existing stands structures that are due for demolition. The work would be undertaken in accordance with:

- English Heritage's *Understanding Historic Buildings, A guide to good recording practice*; and
- IFAs *Standards and Guidance for Historic Building Recording*.

SWAT Archaeology was commissioned by Ebbsfleet United Football Club Stadium to carry out a programme of historic building recording at the Stonebridge Stadium, Stonebridge Road, Northfleet, Kent, and centred on National Grid Reference TQ 561450 174850 (hereafter 'the site').

1.1.4 The site (Fig.10) is currently occupied by a wide range of buildings, football stands, containers and toilet blocks. The Main Stand is located to the north-east of the pitch whilst the Stonebridge Road Stand is on the opposite side of the pitch. Behind the goal on the south-east end is situated the Plough End Stand.

2 THE SITE

2.1 Site location and description

2.1.1 The site is currently used by the Ebbsfleet Football Club and is surrounded by industrial areas of activity including car and bus showrooms, repair yards and depots. The focus of the site is the pitch which has stands on all four sides with car parking to the north-west, entrance gates to the south-west and manager's offices and accommodation to the east. The site is bounded to the west by Stonebridge Road and to the south by Grove Road.

3 SITE VISITS

3.1 Site visits and recording

3.1.1 The site was surveyed by Dr Paul Wilkinson of SWAT Archaeology from 11th to 12th May 2015 during which the buildings were subject to photography and analysis.

3.1.2 The buildings were recorded to *Level 2*, as described in the document *Understanding Historic Buildings: a guide to good recording practice* (English Heritage 2006). In addition the recording was carried out in accordance with the Written Scheme of Investigation for the site issued by SWAT Archaeology and guidance given by the Institute for Archaeologists' Standard and Guidance for the archaeological investigation and recording of standing buildings and structures (IfA 1996, revised 2001 and 2008).

3.1.3 During the site visits, some 67 colour digital photographs were taken using a digital SLR camera equipped with Zeiss optics.

3.1.4 Due to varying lighting conditions encountered during the site visits (due to time of day or poorly lit interiors), some of the buildings were digitally photographed a number of times, with varying timed exposure ratings (bracketed shots). A metric photographic scale (2m in 50cm segments) has been included in all detailed shots and the buildings photographed within their setting to further explain the layout of the site.

3.1.5 All photographic views were recorded on photographic registers which give the direction of the view and a brief description of the subject.

3.1.6 A selection of the digital photographic record has been used to illustrate this report (Plates 1 - 41). Plans showing the location of photographic plates used to illustrate the report are included as Figure 11 in the report.

3.1.7 The plans, cross-sections and elevations produced by the development architects are presented in the report as Appendix 1.

4 HISTORICAL BACKGROUND

4.1 Site Development: 1872 – 1972

4.1.1 The Ordnance Survey map of 1872 show the site of the future stadium is 'Old Clay Pits' (32 & 31) whilst to the east are 'Chalk Pits'.

To the north beyond 'Botany Bay' is a corn windmill c.1856 (TQ 67 1002), and to the east kilns (TQ 67 SW 77) and a cement mill. Aspdin's Kiln is a Scheduled Monument and dates from c.1845. The cement mills were established on the site in 1834 and may have been on the site of James Parker's Roman cement works dating from 1792. The Ebbsfleet is a natural watercourse with a sluice at the bridge called 'Stone Bridge'. To the north of the site and beyond the present plans for development but within the curtilage is a double banked ditch feeding into the Ebbsfleet (Figure 1).

4.1.2 By 1897 the area of the future stadium has now been backfilled. The cement works have expanded and the corn windmill is now disused. Ebbsfleet stream is now contained in a conduit but still tidal to Stone Bridge. The

Gravesend to Northfleet tramway (1883- 1929) has been established and remains of the track may still be in situ under the Phase 1C of the proposed development. The Ebbsfleet is still tidal to 'Stone Bridge' and is located outside the proposed development area of Phase 1B (Figure 2).

4.1.3 On the 1907-1909 Ordnance Survey map the area of the football ground is now defined with a new building (covered stand?) located on the north-east side. On the west side a branch of the Gravesend to Northfleet tramway has been established. It seems the Ebbsfleet is no longer tidal but controlled by a sluice gate and 'Stone Bridge' is longer a bridge (Figure 3).

By 1932 the football pitch is shown on the OS map with a larger building on the north-east side and an additional covered stand facing it on the south side and the tramway on the west side is no longer shown (Figure 4).

On the 1938-1939 OS map there is little change but on the Google Earth 1940 aerial photograph terracing can be seen on the south end of the pitch (Fig. 5 & Plate 1).

4.1.4 On the 1952 Ordnance Survey map concrete terracing can be seen on all sides of the football pitch and with an additional covered stand on the south side with exterior stairs on the south side of the building (Figure 6).

The Ordnance Survey map of 1961 shows little difference but the Google Earth 1960 aerial photograph shows the stand on the south-west side has been replaced by a much longer stand and the stand on the south side has been extended to the width of the pitch. It is of some interest that the OS map issued in 1961 had not been updated (Fig. 8 & Plate 2).

4.1.5 By 1972 the OS map shows the football ground as it appears today with three stands, concrete terracing, toilets, fast food outlets and offices. Home to Ebbsfleet United FC the ground had a capacity of 5,011 standing and 500 seated fans (Figure 10).

Additional information on the development of the site can be found in the Archaeological Desk-Based Assessment of the site (SWAT 2015).

5. BUILDING DESCRIPTION

5.1 The Stonebridge Stand (Phase 1A)

5.1.1 The Stonebridge Stand comprises a rectangular- shaped structure which measures 56.2m in length and 8.4m in width and is orientated NW-SE along its long axis. It has a capacity of 2558 standing supporters (Figure 10. Plates 2, 5, 9, 39, 40, 41).

5.1.2 The building comprises a concrete stepped base with a steel structure comprising of 48 vertical H- beam steel stanchions capped by mild steel simple fan trusses (Plates 39, 40). The roof trusses include the principal rafter (upper chord), main tie (lower chord), struts and secondary ties. The members comprising the truss are all angle sections. The principal rafter and the main tie each comprise L sections placed back to back with a space between them equal to the gusset plates which occur at each joint. The roof trusses are connected to the stanchions by two simple splice plates.

5.1.3 The simple fan trusses are covered by modern corrugated steel sheets and the building is open on its long side towards the pitch as are the two ends and closed by modern steel corrugated vertical panel sheeting to the rear adjacent to Stonebridge Road.

5.1.4 The concrete surface is stepped into 12 vertical areas with a steel square section safety railings located on steps three and eight. No doubt to add an element of safety to the standing football fans.

5.1.5 The building is of typical mid 20th century construction, refurbished in recent years and of little architectural merit. The building is not shown on the OS map of 1961 but is shown on the Google Earth aerial photograph of 1960 (Plate 2, Figure 8).

6. BUILDING DESCRIPTION

6.1 The Plough End Stand (Phase 1B)

6.1.1 The Plough End Stand comprises a rectangular- shaped structure which measures 68.2m in length and 9.6m in width and is orientated NE-SW along its

long axis. It has a capacity of 500 seated supporters (Figure 10. Plates 6, 7, 10, 11, 26, 38).

6.1.2 The building is similar in design to the Stonebridge Road Stand that it utilises 32 steel H-beam stanchions topped by a mild steel simple truss construction in this case using the flexibility of the construction to cantilever out from a central stanchion enabling a better view of the pitch.

6.1.3 The floor is stepped terraces of concrete, 11 rear of the central post and five forward of the central post. Plastic folding seating has been installed in this area forward of the post whilst to the rear of the post the concrete terraces can be used for standing (Plate 10).

6.1.4 The roof and sides are covered in modern corrugated steel panels.

6.1.5 The building is of typical mid 20th century construction, refurbished in recent years and of little architectural merit. The building is not shown on the 1940 Google Earth aerial photograph (Plate 1) but an earlier version is shown on the 1952 OS map (Figure 6). The current building can be first identified on the 1960 Google Earth aerial photograph (Plate 2) and is shown on the 1972 OS map (Figure 9).

7. BUILDING DESCRIPTION

7.1 The Main Stand (Phase 2)

7.1.1 The Main Stand comprises a rectangular-shaped structure which measures 58.2m in length and 9.2m in width and is orientated NW-SE along its long axis. It can seat 524 supporters and 196 standing (Figure 10. Plates 8, 19, 20, 21, 22, 23, 24, 25, 28, 29, 30, 31, 32, 33, 34, 35).

7.1.2 Unlike the other covered stands the Main Stand is built of timber with a trussed timber roof. At some time in the past the building has been divided longitudinally into offices, dressing rooms, showers, and stores (Appendix 1).

7.1.3 The roof is a modern timber post and truss construction, the main posts (250mmx150mm) of timber, machine sawn and of halved conversion. The main posts support the timber wall plates themselves supported with two longitudinal knee braces bolted with threaded bolts to each post. The tie beam

is connected to the main posts and forms the base of the truss construction. The principal rafter supports the 12 roof purlins themselves reinforced by a purlin cleat. The purlins are longitudinal members in the roof giving support to the roof covering, in this case an internal roof of ply sheeting.

7.1.4 Lateral or wind braces are bolted on to the tie beam and principal rafter. In addition each roof truss has three vertical mild steel threaded bolted rods to prevent timber movement.

7.1.5 The internal seating is a combination of modern plastic seating and set around the player's entrances and commentary box's (Plate 35).

8. DISCUSSION

8.1.1 The Site is made up of a mixture of buildings which largely date to three main phases:

Main Stand (Phase 1) 1907-1935

Stonebridge Road Stand (Phase 2) 1935-1960

Plough End Stand (Phase 3) 1960-2015

On the 1907-1909 Ordnance Survey map the area of the football ground is established with a new building (covered stand?) located on the north-east side.

8.1.2 By 1932 the football pitch is shown on the OS map with a larger building on the north-east side and an additional covered stand facing it on the south side and the tramway on the west side is no longer shown.

On the 1938-1939 OS map there is little change but on the Google Earth 1940 aerial photograph terracing can be seen on the south end of the pitch.

On the 1952 Ordnance Survey map concrete terracing can be seen on all sides of the football pitch and with an additional covered stand on the south side with exterior stairs on the south side of the building.

The Ordnance Survey map of 1961 shows little difference but the Google Earth 1960 aerial photograph shows the stand on the south-west side has been replaced by a much longer stand and the stand on the south side has been

extended to the width of the pitch. It is of some interest that the OS map issued in 1961 had not been updated.

By 1972 the OS map shows the football ground as it appears today with four stands, concrete terracing, toilets, fast food outlets and offices.

9. ARCHIVE

9.1 Preparation and Deposition

9.1.1 The Site Archive, to include all project records, will be prepared in accordance with Guidelines for the preparation of excavation archives for long-term storage (UKIC 1990).

On completion of the project SWAT Archaeology will arrange for the archive to be deposited with the appropriate repository (to be advised). Any alternative arrangements will be agreed with the County Archaeologist and the Local Planning Authority.

9.1.2 The historic building record archive will include:

- hard copy of the report
- pdf copy of the report on CD
- full photographic record with photographic registers
- field notes and sketches

9.1.3 Following approval of the report, SWAT Archaeology will provide the Kent Historic Environment Record (HER) with copies of all reports in both hard copy and digital format.

9.1.4 Upon completion of the on-site programme of historic building recording SWAT Archaeology will supply the Kent HER with a completed HER form.

10. Copyright

10.1.1 The full copyright of the written/illustrative archive relating to the Site will be retained by SWAT Archaeology under the Copyright, Designs and Patents Act 1988 with all rights reserved. The designated repository, however,

will be granted an exclusive licence for the use of the archive for educational purposes, including academic research, providing that such use shall be non-profit making, and conforms to the Copyright and Related Rights regulations 2003.

11. REFERENCES

11.1 Primary sources

The bulk of the Ordnance Survey records are held at the Public Record Office located at Kew, historic photographs were provided by the club and architects drawings by Alexander Sedgley Ltd.

11.2 Secondary sources

English Heritage, 2006: *Understanding Historic Buildings, A guide to good recording practice*, English Heritage

SWAT Archaeology, 2015: *Archaeological Desk-Based Assessment of Ebbsfleet Football Stadium*

Plates



Plate 1. Google Earth dated 1940



Plate 2. Google Earth dated 1960



Plate 3. Google Earth dated 1999



Plate 4. Google Earth dated 2014



Plate 5. The Stonebridge Road Stand (Phase 1A) looking north-west



Plate 6. The Plough End Stand (Phase 1B) looking south



Plate 7. The Plough End Stand (Phase 1B) looking east



Plate 8. The Stonebridge Road Stand (Phase 1A) looking west



Plate 9. Inside the Stonebridge Road Stand showing details of roof (looking north-west)



Plate 10. Looking along the Plough End Stand (Phase 1B) looking south-west



Plate 11. Looking (south-east) at the Plough End Stand from the Stonebridge Road Stand



Plate 12. Outside of the grounds looking south



Plate 13. Outside of the grounds looking north



Plate 14. Outside of the grounds looking at the entrance gates (looking north-east)



Plate 15. Inside the grounds looking (south-west) past the WC's to the entrance gates



Plate 16. Detail of the turnstile inside the entrance gates



Plate 17. View of the Supporters Bar rear of the Plough End Stand (looking north)



Plate 18. View of the Supporters Bar (looking west)



Plate 19. View of the rear of the Main Stand (looking north-west) scale rod in 50cm



Plate 20. View of the south facade of the Main Stand (looking north)



Plate 21. View of the frontage of the Main Stand (looking north-east)



Plate 22. View of the south facade of the Main Stand (looking north)



Plate 23. View of the frontage of the Main Stand (looking north-east)



Plate 24. View of the frontage of the Main Stand (looking north-east)



Plate 25. View of the frontage of the Main Stand (looking north-east)



Plate 26. View of the pitch looking towards the Plough End Stand



Plate 27. Burger Bar (looking south-west) Scale rod in 50cm



Plate 28. View of the rear of the Main Stand (looking south) Scale rod in 50cm



Plate 29. View of the seating of the Main Stand (looking north) Scale rod in 50cm



Plate 30. View of the seating of the Main Stand (looking south-east)



Plate 31. Detail of the seating of the Main Stand (looking north) Scale rod in 50cm



Plate 32. Detail of the roof of the Main Stand (looking south-east)



Plate 33. Detail of the of the Main Stand (looking north-west over the pitch
Scale rod in 50cm)



Plate 34. Detail of the timber facade of the Main Stand (looking north)



Plate 35. Detail of the seating of the Main Stand (looking north-east)



Plate 36. View of the Swanscombe End Stand (Phase 1C) looking west. Scale bar in 50cm



Plate 37. View of the Swanscombe End Stand (Phase 1C) looking north-west



Plate 38. Roof detail of the Plough End Stand (looking north-east) Scale bar in 50cm



Plate 39. Stand detail of the Stonebridge Road Stand (looking south-east) Scale bar in 50cm



Plate 40. Roof detail of the Stonebridge Road Stand (looking south-east)



Plate 41. Looking from the Stonebridge Road Stand to the Main Stand (north-east)



Plate 42. Football crowds at Stonebridge Stadium gate (1920)



Plate 43. The ground c.1935 (looking south-west)



Plate 44. The ground in c.1935 (looking north-east)

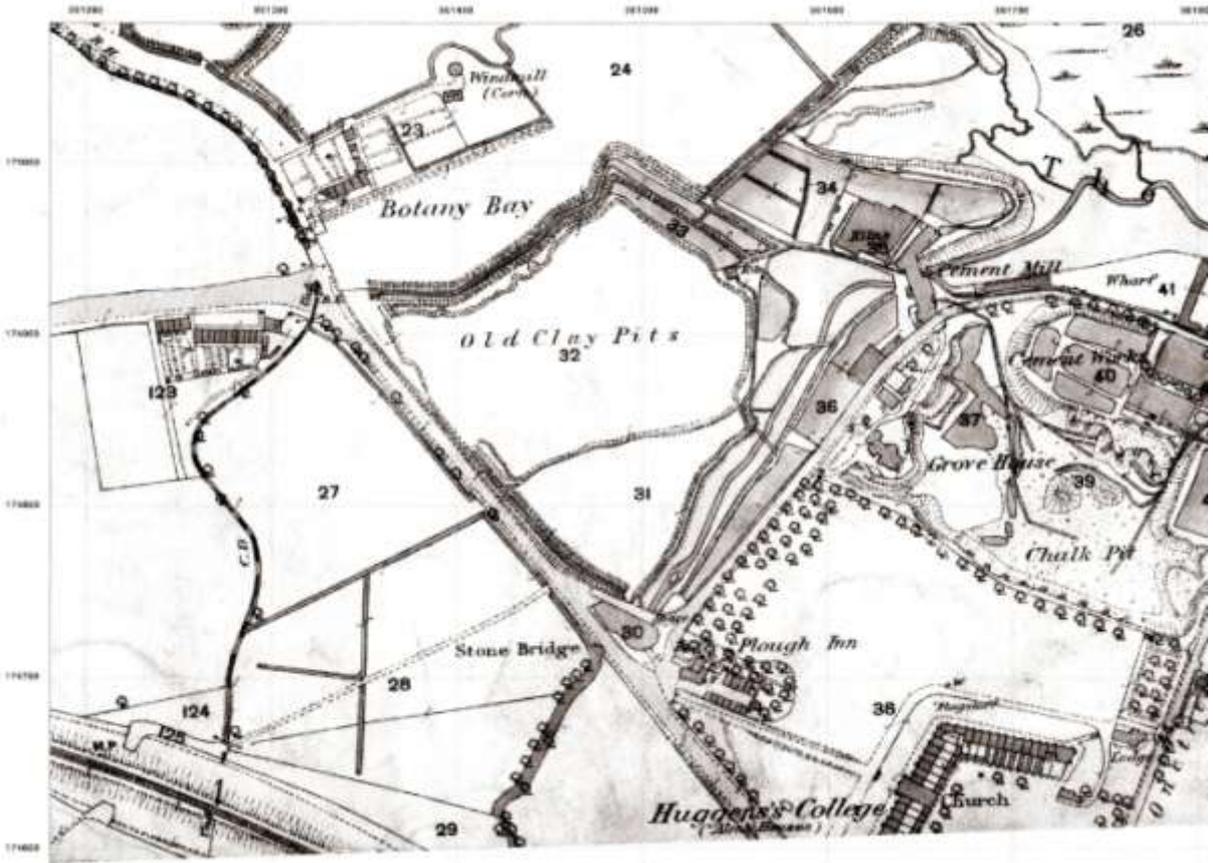
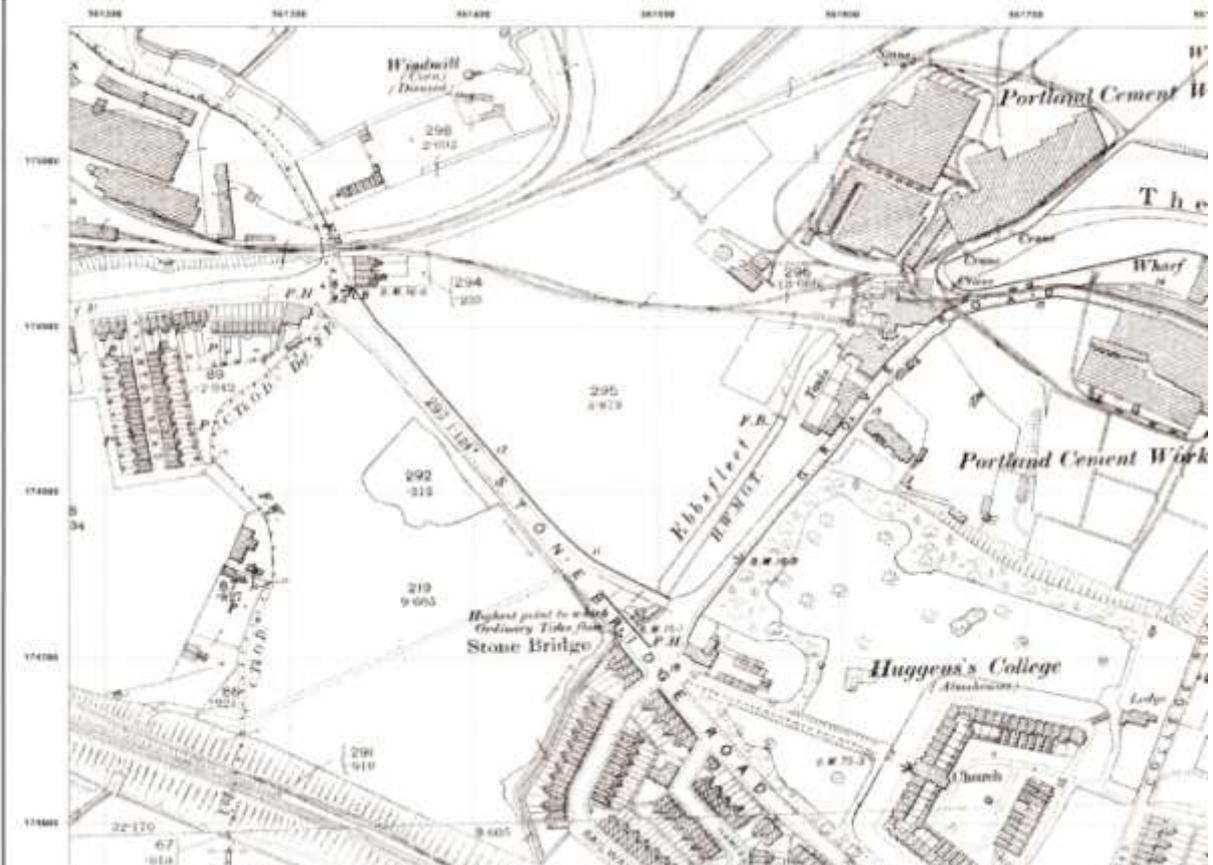


Figure 1 (above) OS mapping 1872

Figure 2 (below) OS mapping 1897



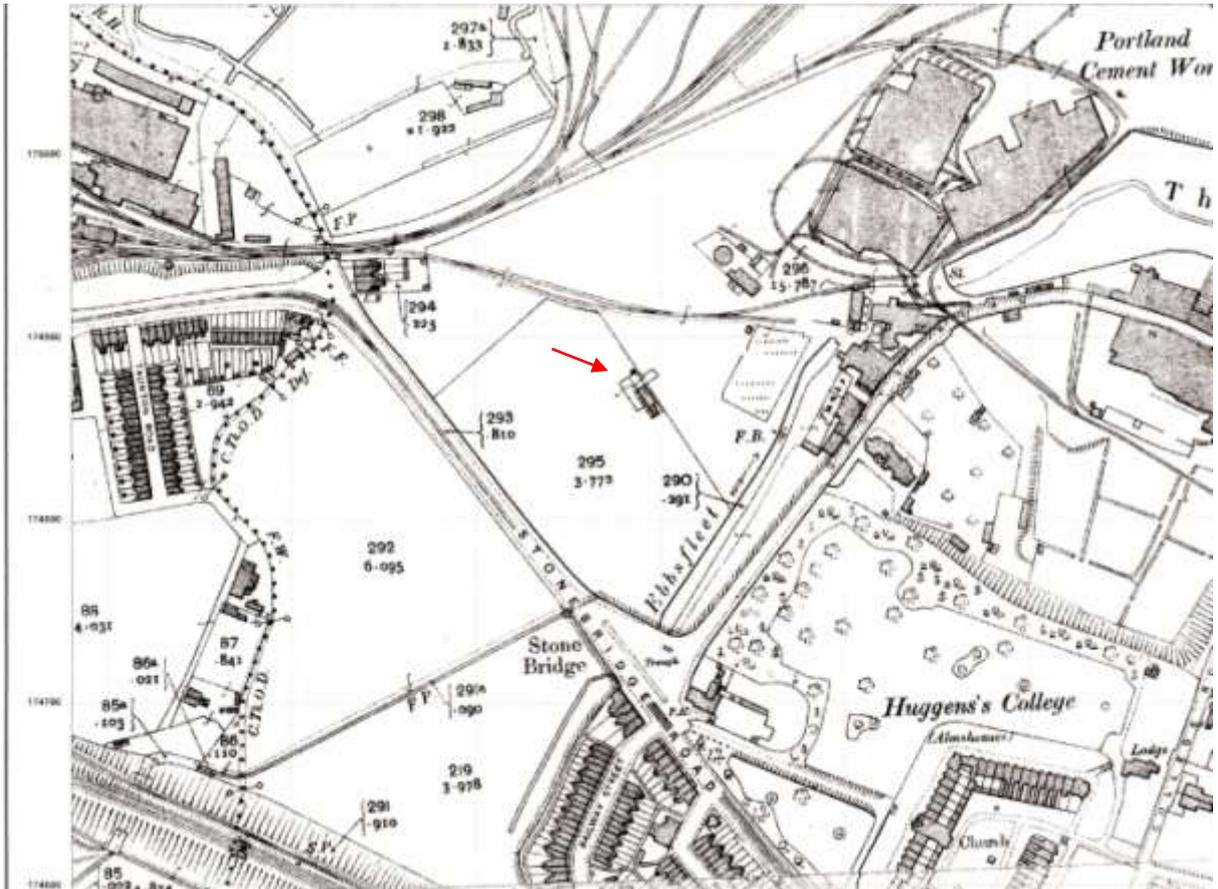
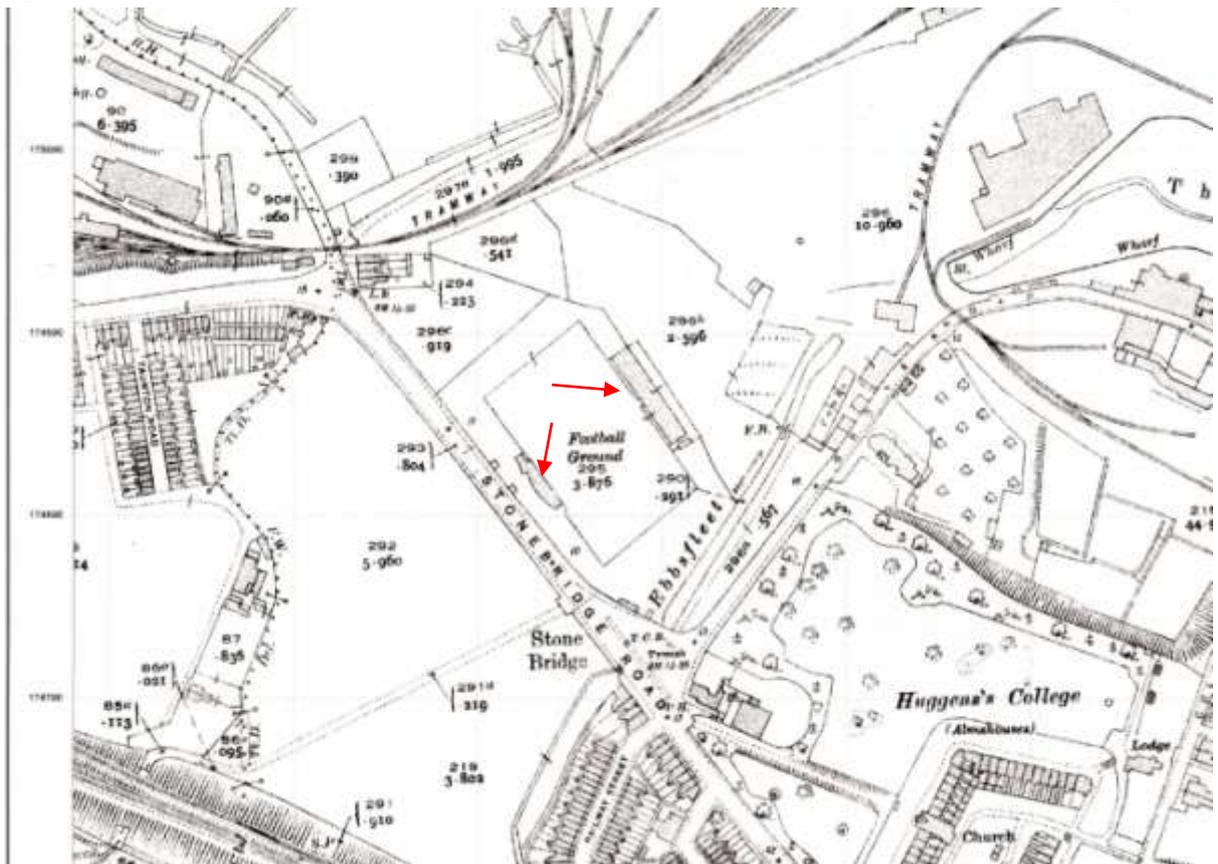


Figure 3 (above) OS mapping 1909

Figure 4 (below) OS mapping 1932



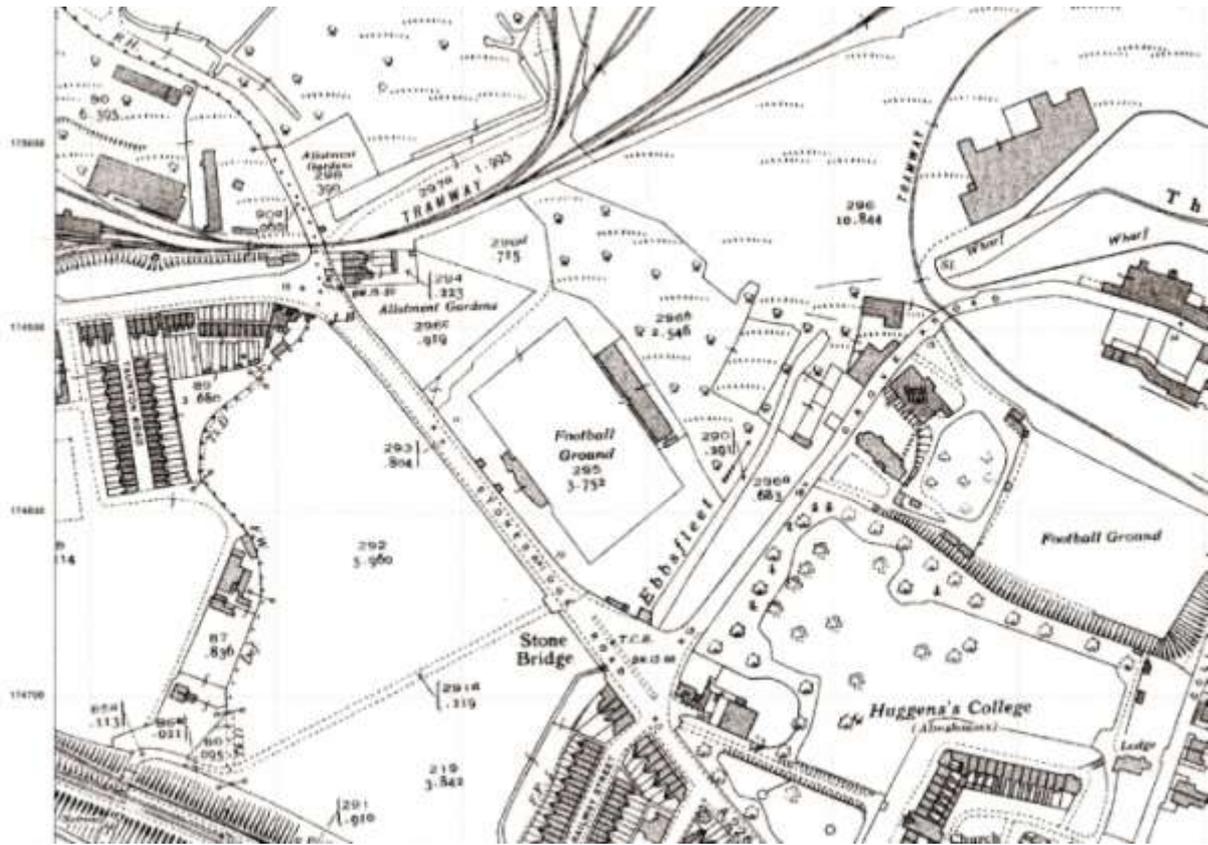
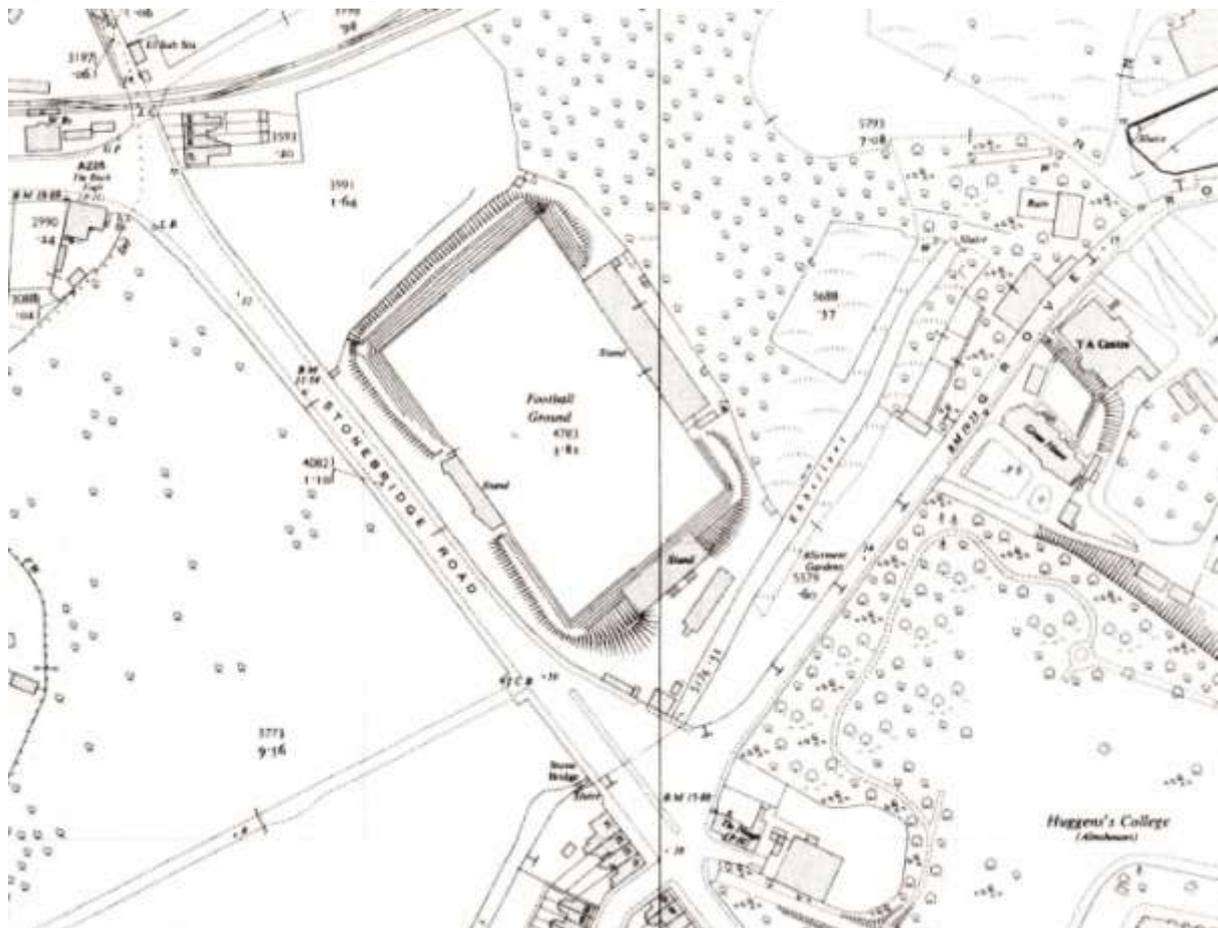


Figure 5 (above) OS mapping 1939

Figure 6 (below) OS mapping 1952



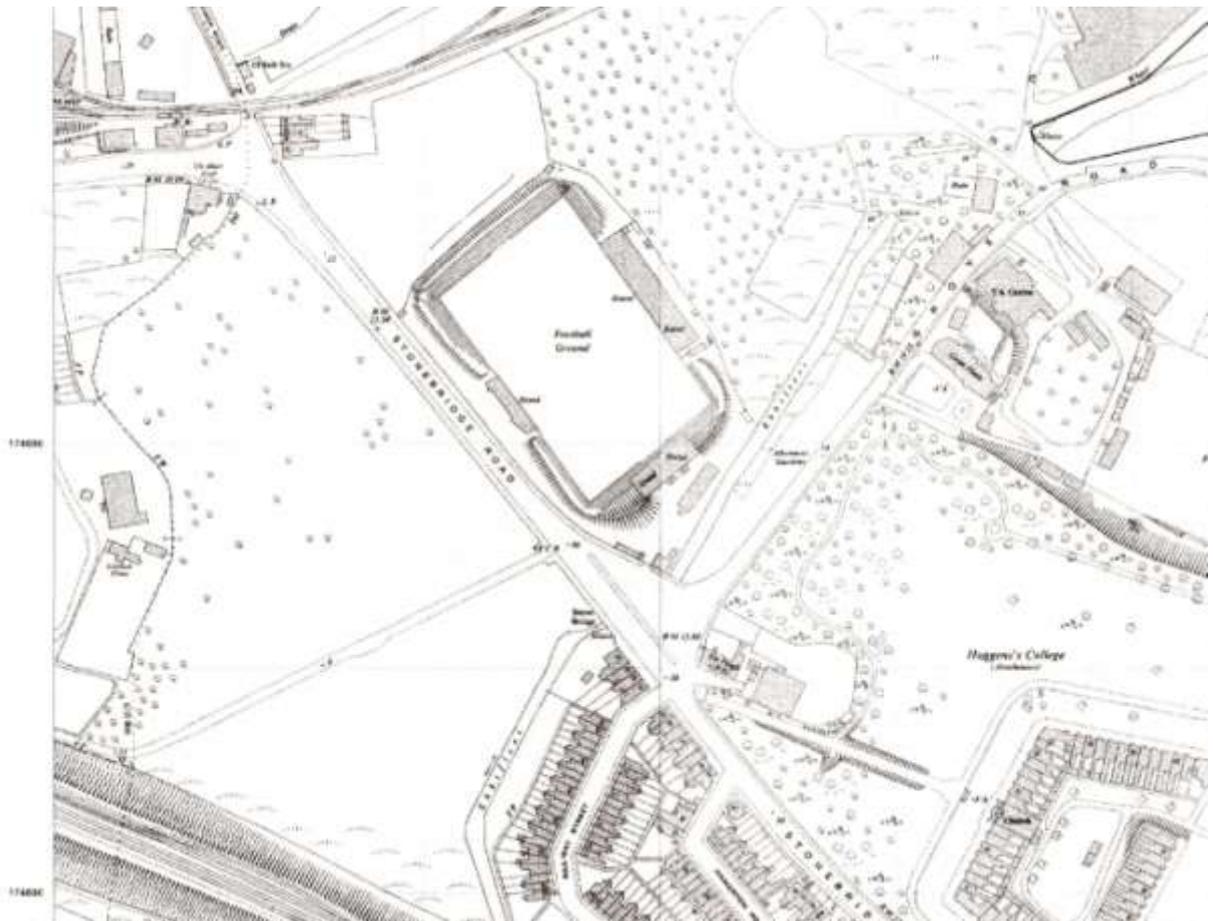


Figure 7 (above) OS mapping 1955

Figure 8 (below) OS mapping 1961



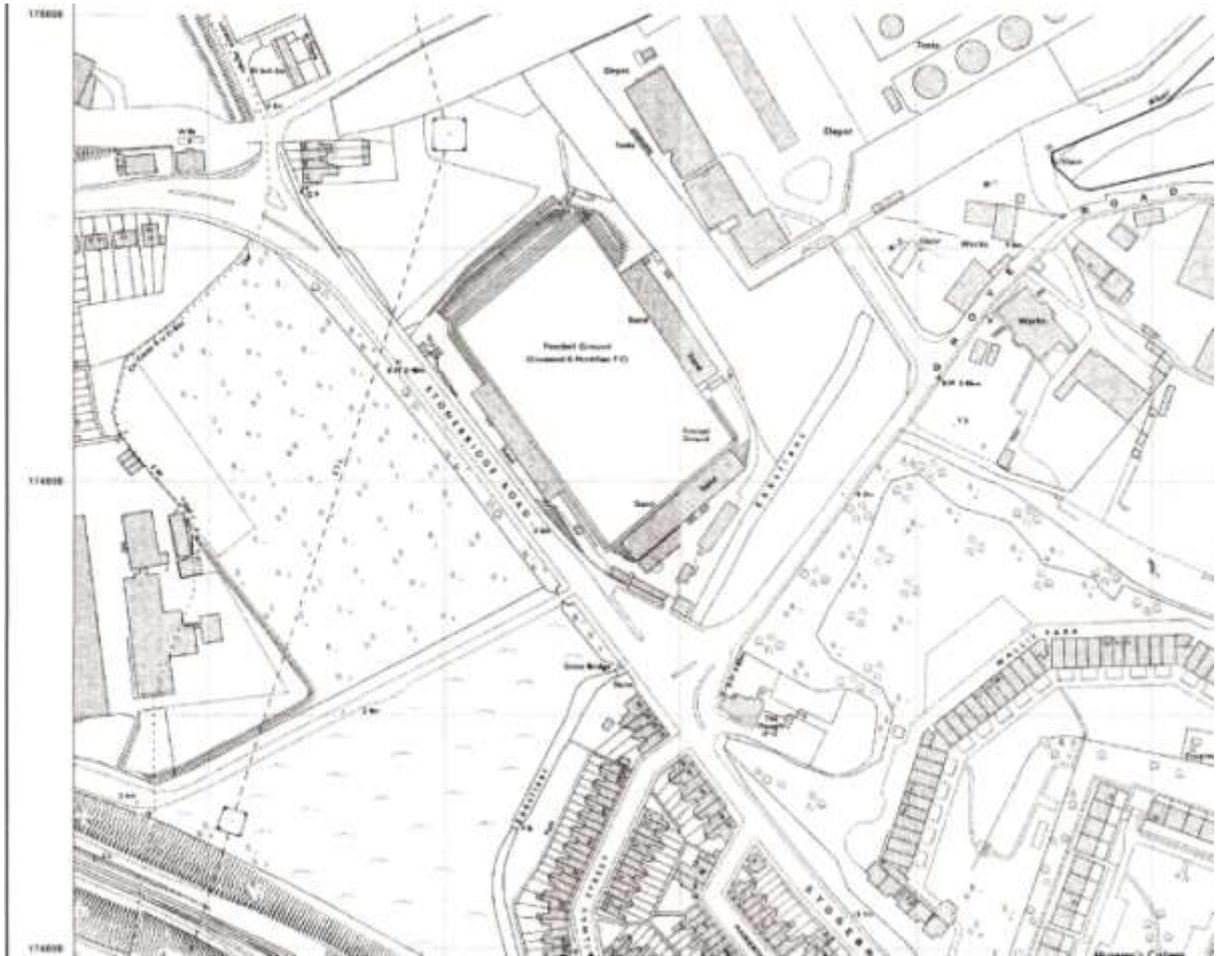


Figure 9. OS mapping 1972

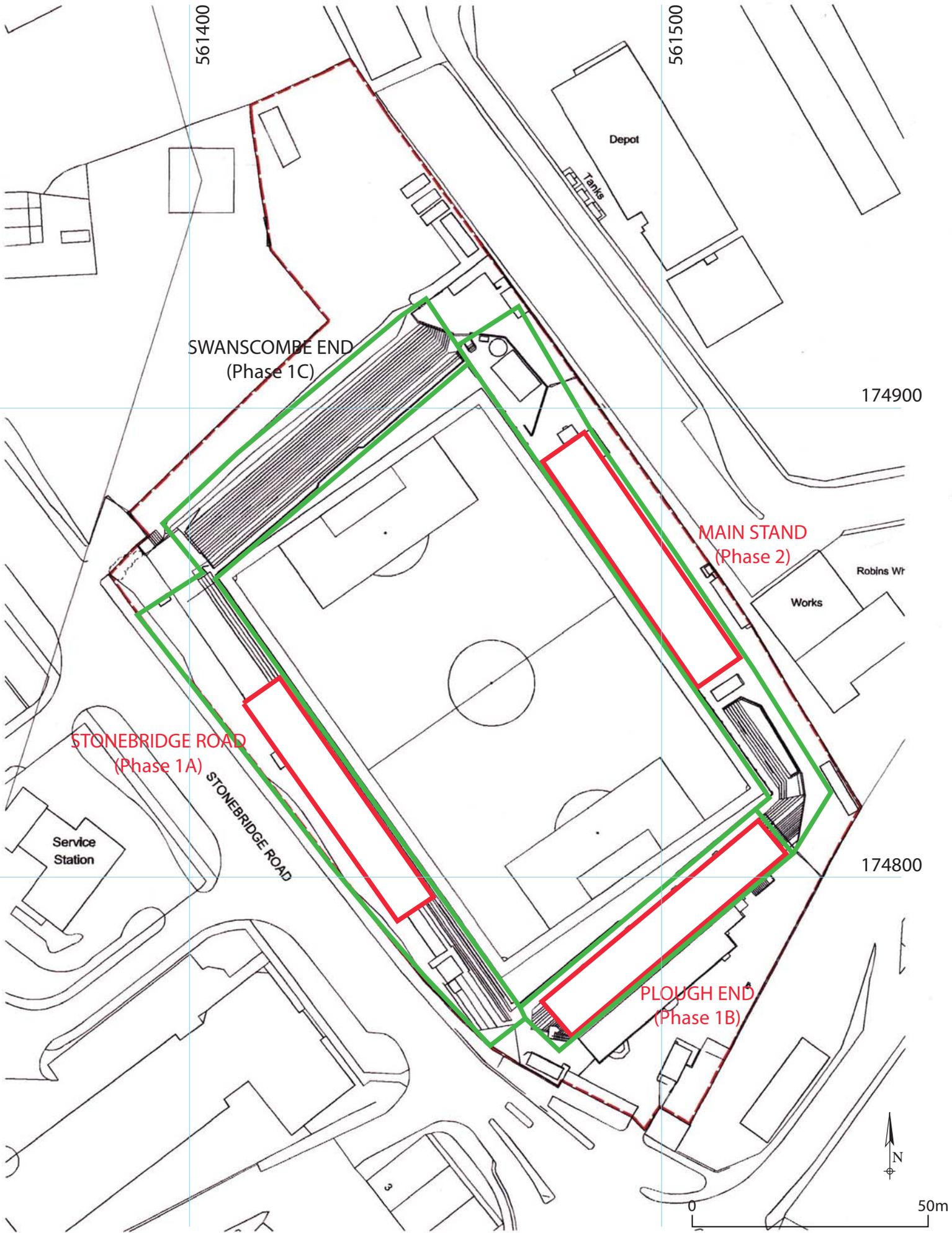


Figure 10: Location of stands, scale 1:1000.

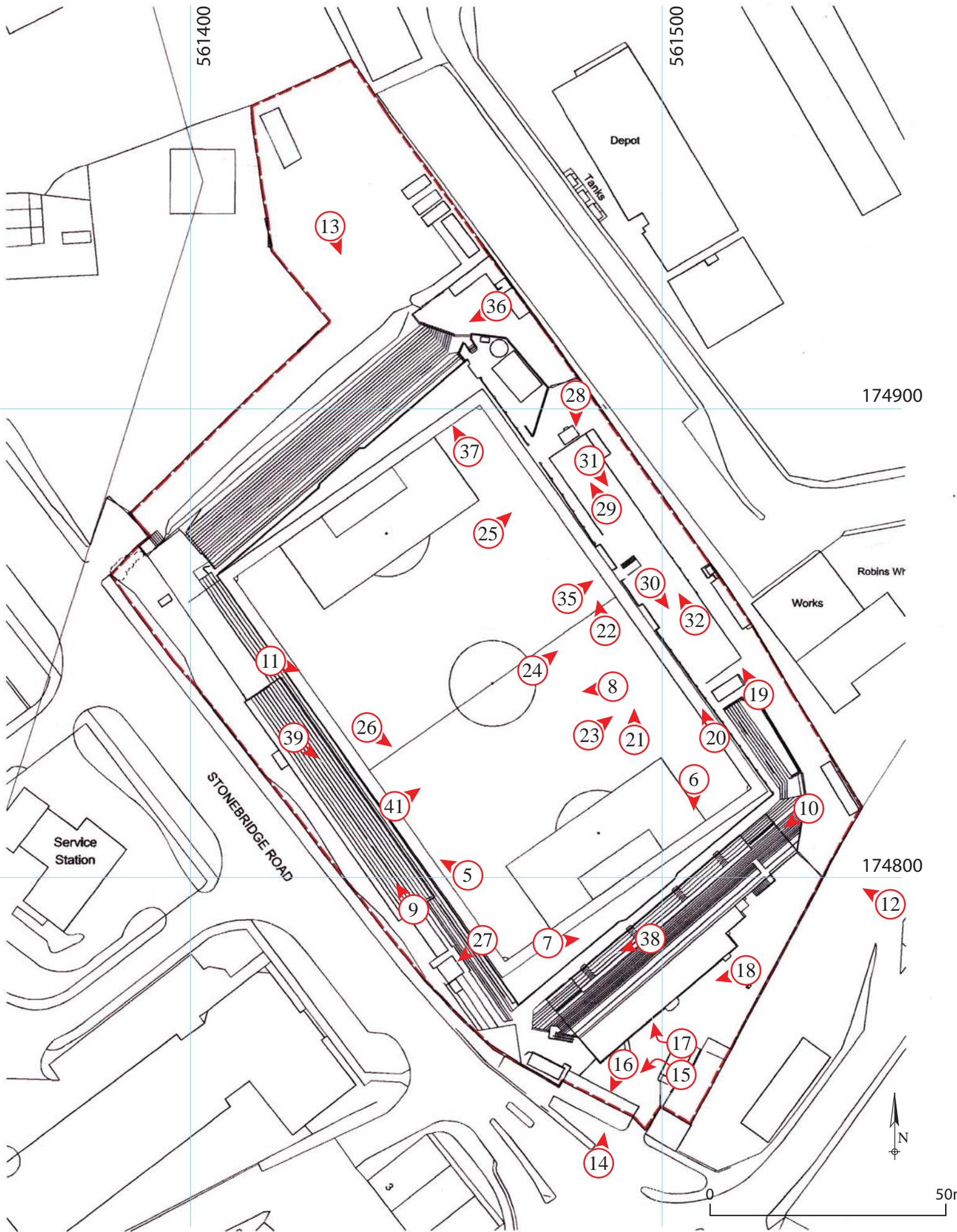
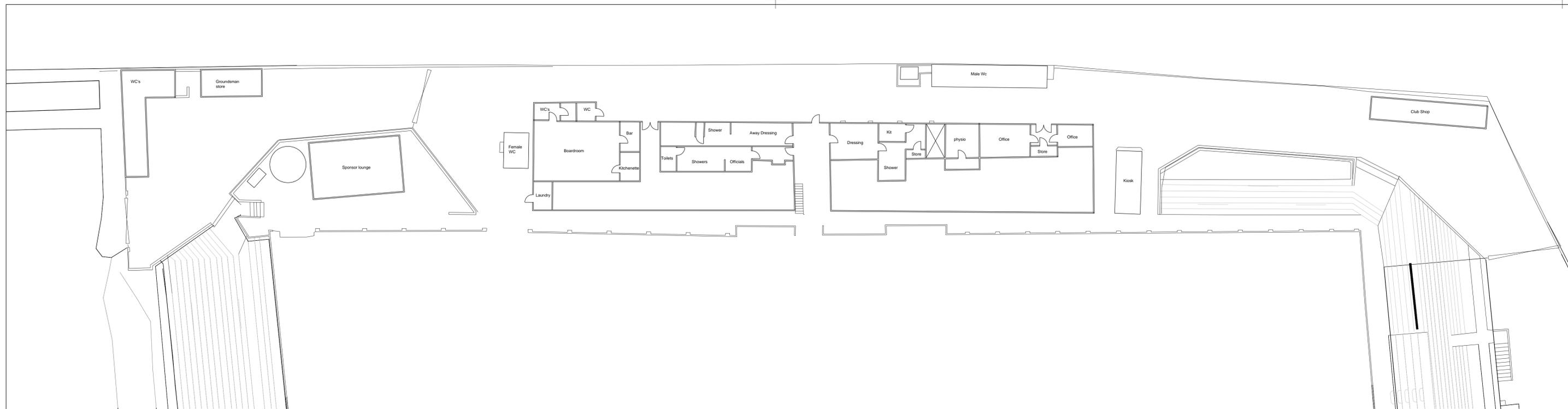
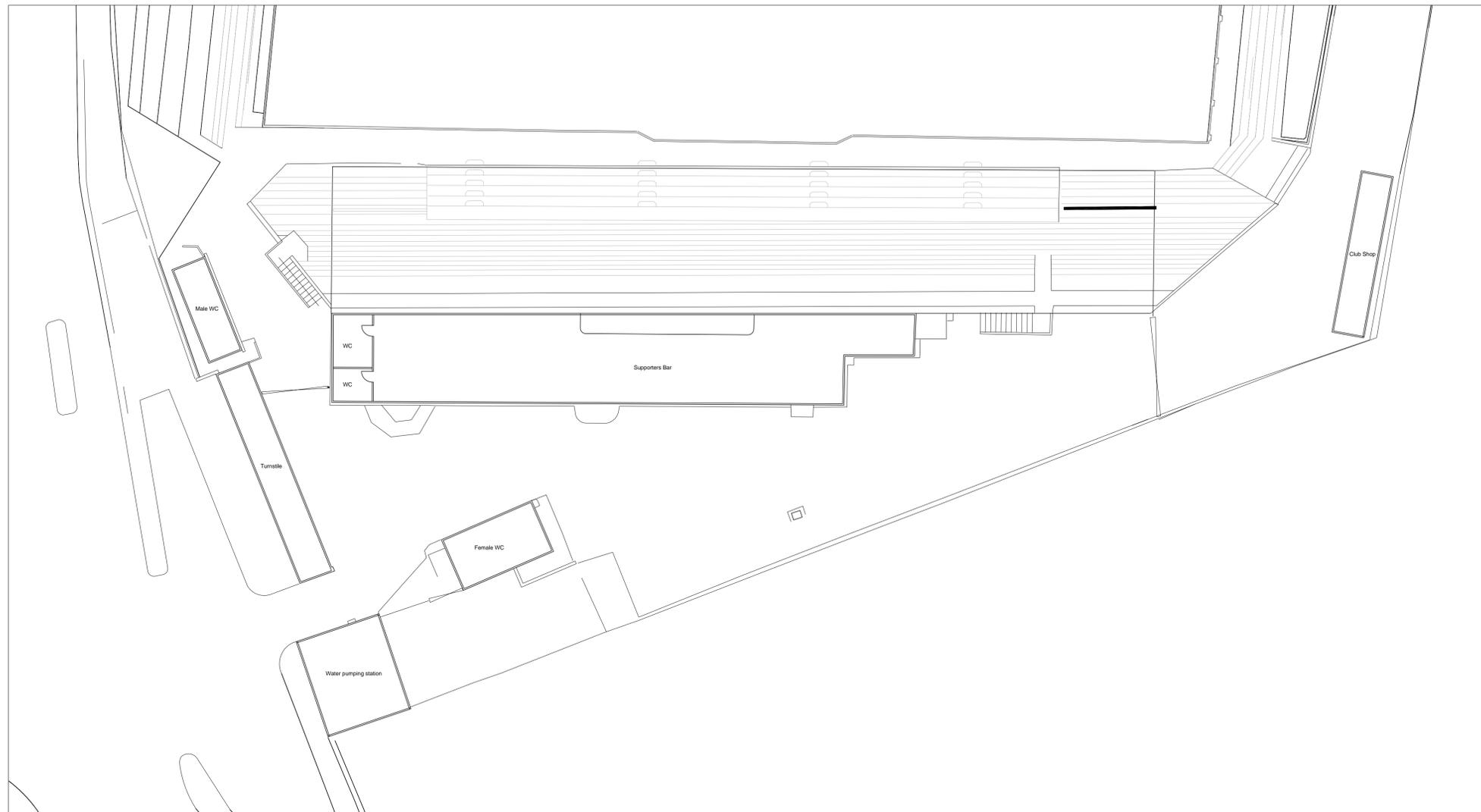


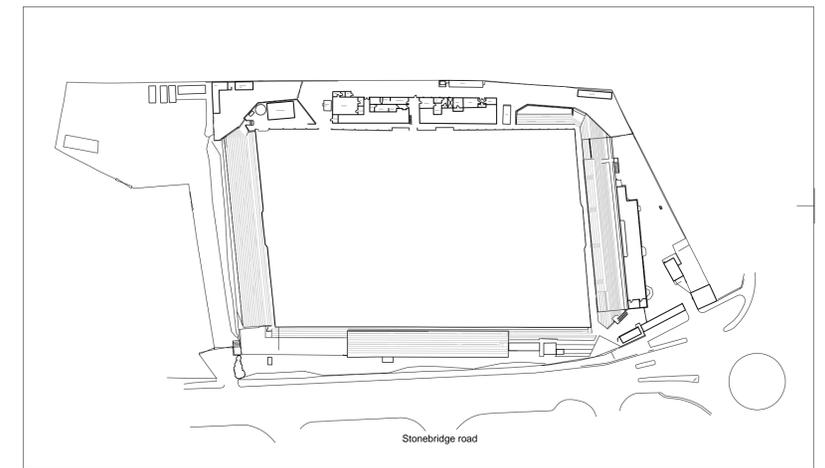
Figure 11: Site plan with plate numbers and looking direction, scale 1:1000.



Existing Main Stand Ground Floor Plan



Existing Social Club Ground Floor Plan

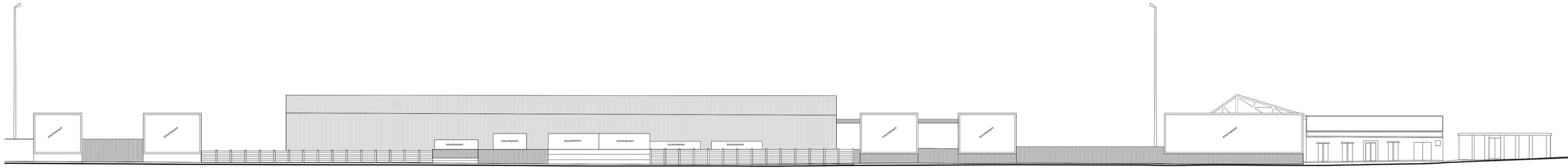


Existing Site Plan 1:1250

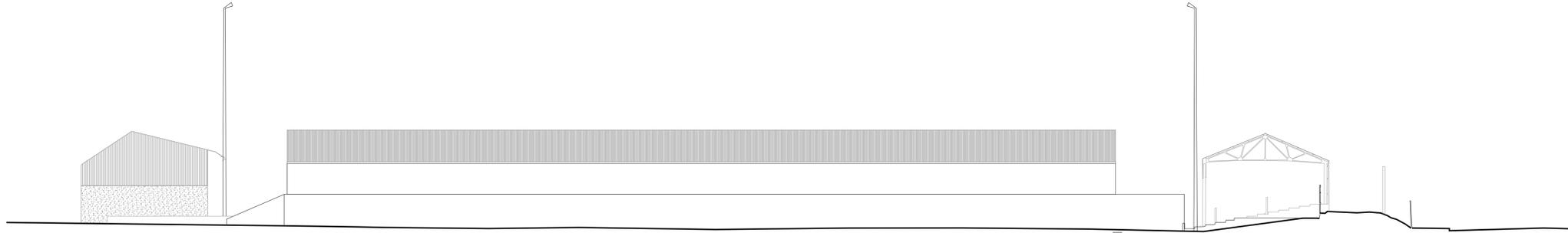
alexander sedgley ltd

URBAN EDGE STUDIO, 92 ROAN STREET, GREENWICH, SE10 9JT
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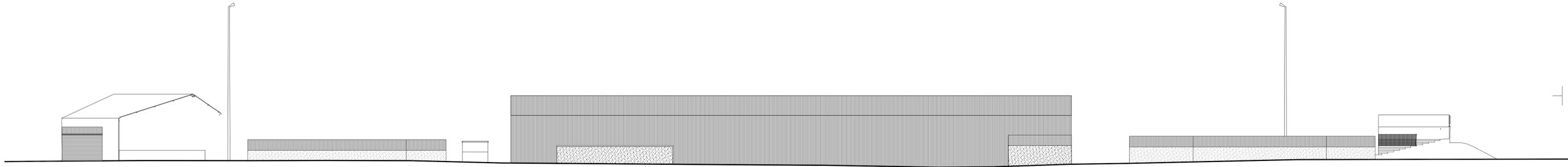
PROJECT NAME	EBBSFLEET UNITED FOOTBALL CLUB					SHEET SIZE	SCALE	DRAWN BY	DATE	STATUS	PROJECT NO.	DRAWING NO.	REVISION
DRAWING TITLE	EXISTING FLOOR PLANS					A1	1:200	CA	26.01.15	PLANNING	1037	EX-03	PL1



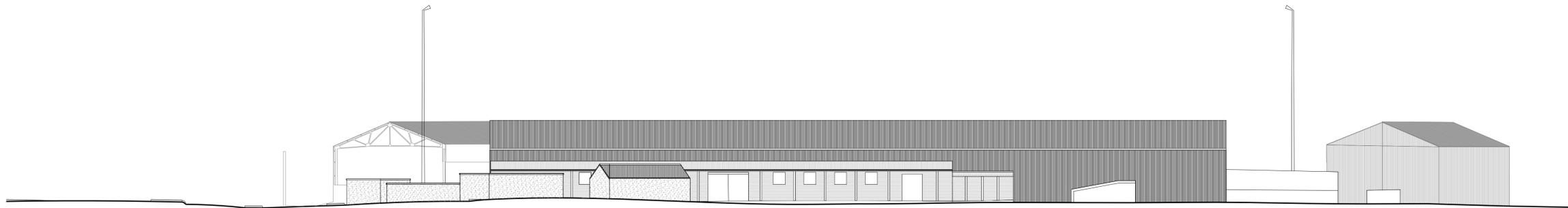
Existing South West Elevation from Stonebridge Road



Existing North West Elevation

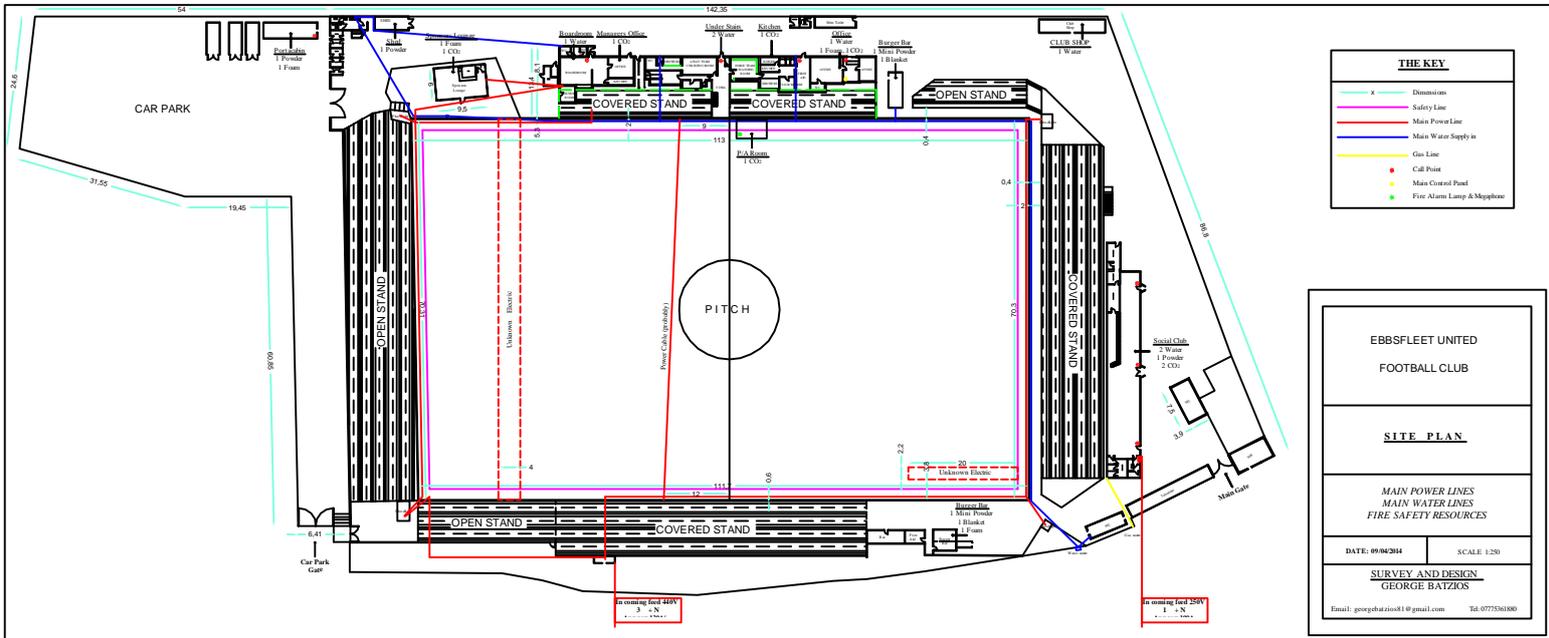


Existing North East Elevation



Existing South East Elevation

PROJECT NAME EBBSFLEET UNITED FOOTBALL CLUB		SHEET SIZE A1		SCALE 1:200	DRAWN BY CA	DATE 26.01.15	STATUS PLANNING		PROJECT NO. 1037	DRAWING NO. EX-04	REVISION PL1
<p style="text-align: right;">alexander sedgley ltd URBAN EDGE STUDIO, 92 ROAN STREET, GREENWICH, SE10 9JT T. 020 8293 7293 F. 020 8293 7272 E. info@alexander-sedgley.co.uk</p>											



THE KEY	
— x —	Dimensions
—	Safety Line
—	Main Power Line
—	Main Water Supply in
—	Gas Line
•	Call Point
•	Main Control Panel
•	Fire Alarm Lanyard & Siren

EBBSFLEET UNITED FOOTBALL CLUB	
SITE PLAN	
MAIN POWER LINES MAIN WATER LINES FIRE SAFETY RESOURCES	
DATE: 09/04/2014	SCALE: 1:250
SURVEY AND DESIGN GEORGE BATZIOS	
Email: georgebatzios1@gmail.com Tel: 0775261880	

LEGEND

- NP Positioning Point
- A Area
- CAV Cable TV Service Cables
- CF Cellular Flyer
- CP Canal Flare
- E Electricity Supply
- FN Fire Hydrant
- IC Inspection Chamber
- KL Low Voltage Cable for Access
- LP Lamp Post
- MH Manhole
- NP Road Name Plate
- PL Pavement Light
- RS Road Sign
- STN Survey Station
- T BT Service Box
- TCS Telephone Call Box
- TL Traffic Lights
- TP Telegraph Pole
- Up Strip Avenue
- DN Ramp Avenue
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STATION CO-ORDINATES

STATION	TYPE	EASTING	NORTHING	ELEV.
STN1	NAIL	564377.133	174668.348	1.57
STN2	NAIL	564626.720	174832.345	3.23
STN3	NAIL	564626.729	174822.655	3.25
STN4	NAIL	564642.396	174783.866	3.16
STN5	NAIL	564673.870	174734.871	3.69

BENCH MARK INFORMATION:
 ALL LEVELS IN METRES TO ORDNANCE SURVEY DATUM AND BASED ON BENCH MARK.
 GPS OBSERVATIONS DIRECTLY ADJUSTED TO THE ORDNANCE SURVEY'S ACTIVE NETWORK

REV	DRG. AMENDMENTS	BY	DATE
A	POSITION OF PLAYING AREA SHOWN AND SPOT HEIGHT ON PITCH ADDED	RW	NOV 2014

EBBSFLEET UNITED FOOTBALL CLUB
 THE PHB STADIUM
 NORTHFLEET
 DA11 9GN

THE PHB STADIUM
 NORTHFLEET

TOPOGRAPHICAL SURVEY AND SECTIONS

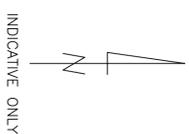
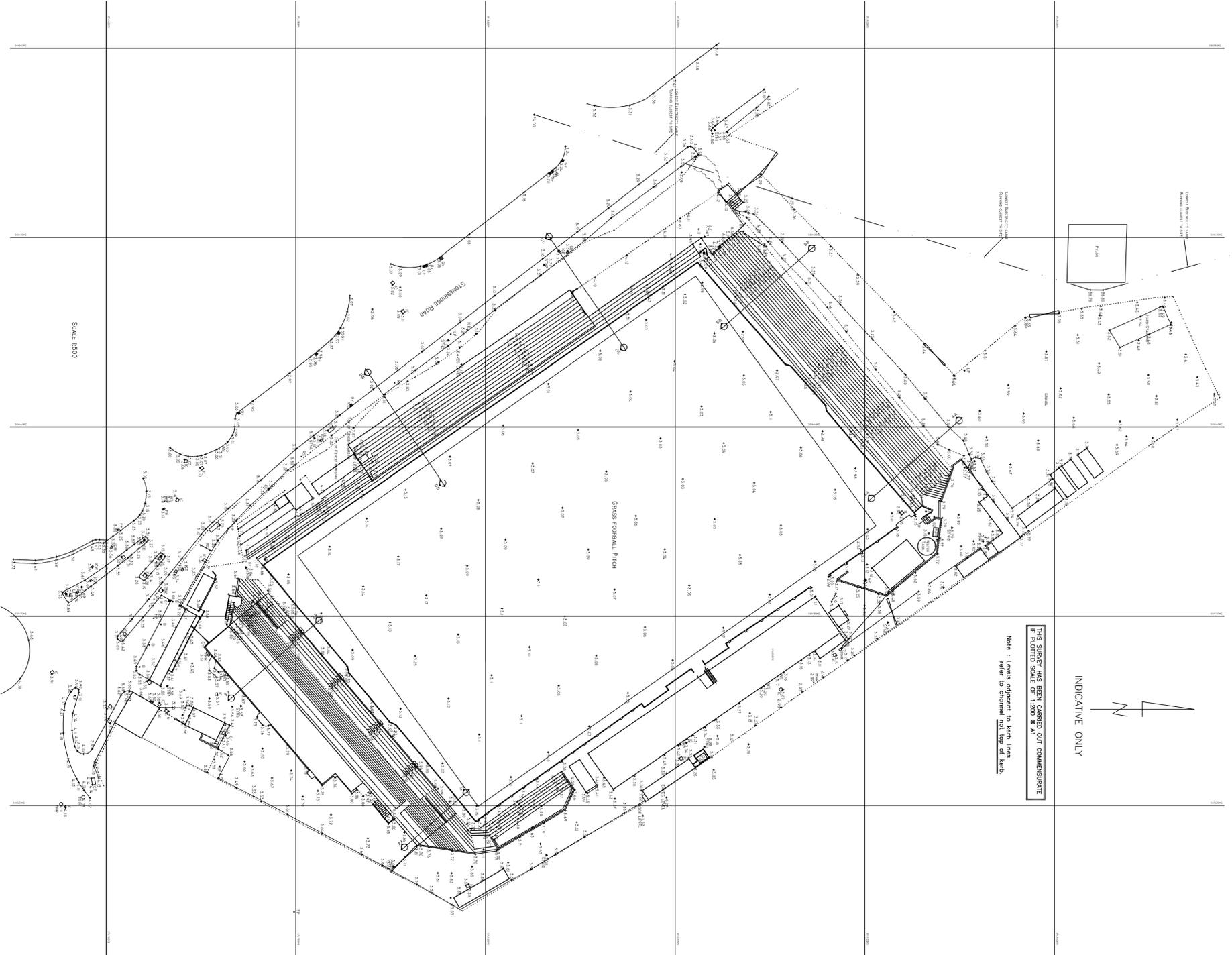
PROSPAPPLANS LIMITED
 Operating to ISO9001:2000
 CHARTERED LAND SURVEYORS
 CENTRAL OFFICE
 RAILWAY LODGE, YARROW LANE
 NORTH ELHAM
 NORFOLK NR20 5LA
 T: +44 (0) 1562 668504
 F: +44 (0) 7092 221939
 E: INFO@PROSPAPPLANS.COM
 W: WWW.PROSPAPPLANS.COM

Regulated by RICS

SCALE: 1:500 & 1:200 @ A1
DATE: SEPTEMBER 2014

DRAWN BY: R WELTON
CHECKED BY: G RUTHERFORD

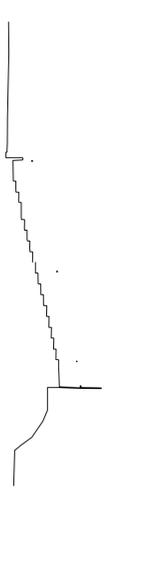
DRG NO: PP/3028/EBBSFLEET/2014/F1



THIS SURVEY HAS BEEN CARRIED OUT COMPENSATED AT A PLOTTED SCALE OF 1:200 @ A1
 Note: Levels adjacent to kerb lines refer to datum not top of kerb.

SCALE 1:500

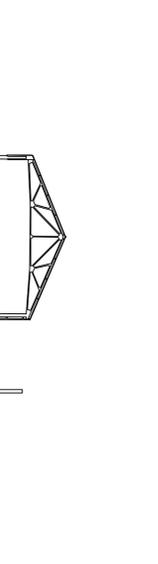
SECTION A-A
 SCALE 1:200



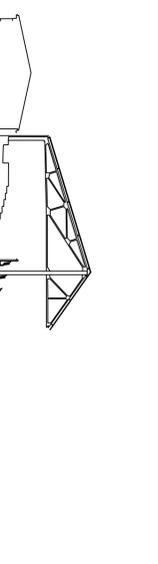
SECTION B-B
 SCALE 1:200



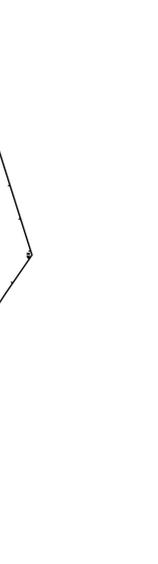
SECTION C-C
 SCALE 1:200



SECTION D-D
 SCALE 1:200



SECTION E-E
 SCALE 1:200



SECTION F-F
 SCALE 1:200

