

APPENDICES

APPENDIX A

DRAWINGS



THE LAND CONSULTANCY LIMITED

Fairweather House, 4 Parker Lane, Whitestake, Preston PR4 4JX
Tel: 01772 610609; M: 07771 800859
email: sfknot@thelandconsultancy.co.uk; www.thelandconsultancy.co.uk

Project:

Manchester Velodrome, National Cycling Centre,
Stuart Street, Manchester M11 4DQ

Title:

Site Location Plan

Scale:

Km Grid Squares

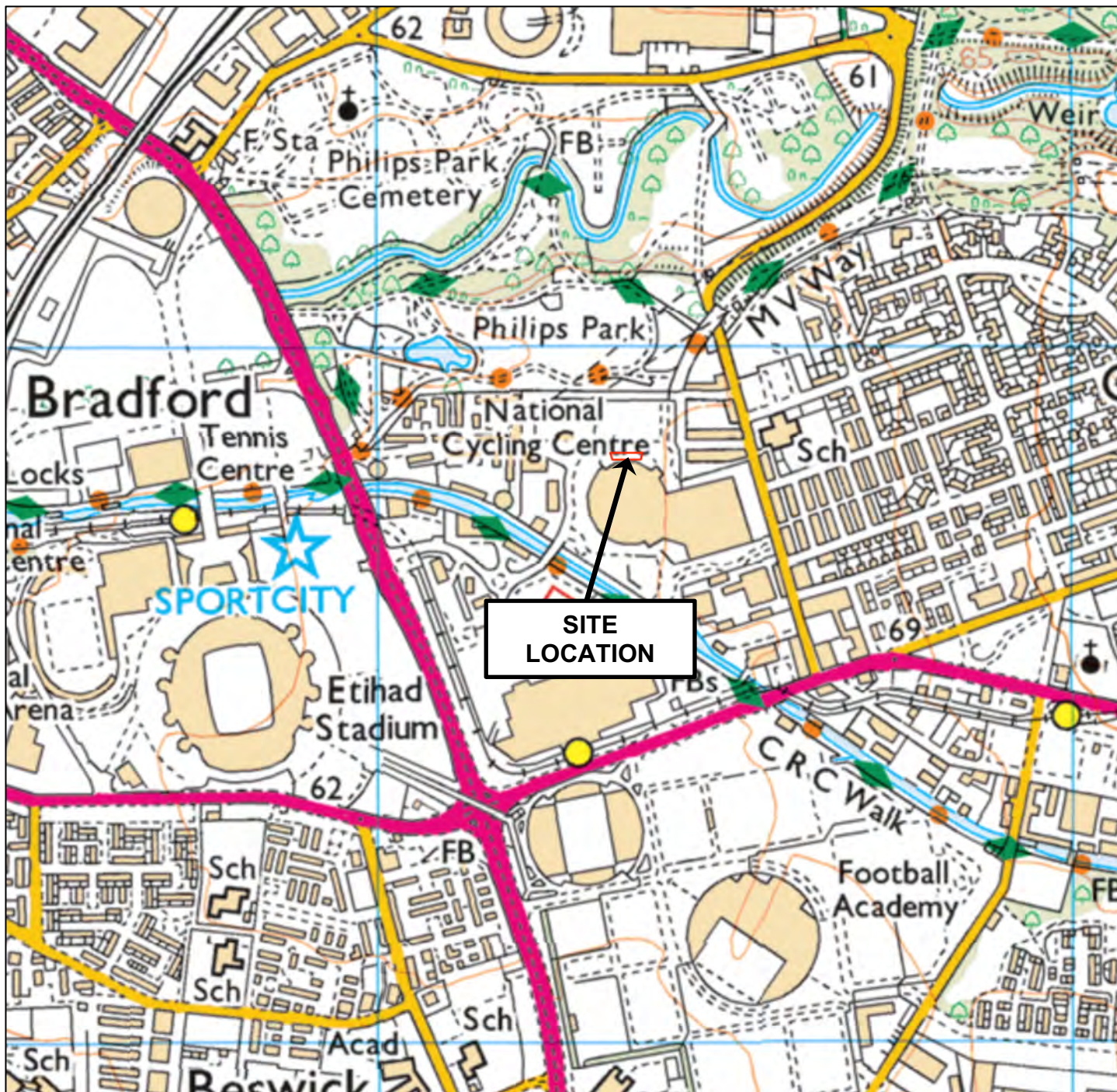
Drawn by:

SFK

Date:

25/11/2020

Drawing No.: TLC1134/01a



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Project:

Manchester Velodrome, National Cycling Centre,
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Site Location Plan

Scale:

Km Grid Squares

Drawn by:

SFK

Date:

25/11/2020

Drawing No.: TLC1134/01b



**Approximate area to be taken up
by the new Plant Room**

≈52m



Google Earth Image

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Project:

Manchester Velodrome, National Cycling Centre,
Stuart Street, Manchester M11 4DQ

Title:

Google Earth Aerial Image displaying Existing Site
Layout

Scale:

As Shown

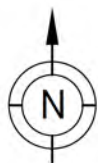
Drawn by:

SFK

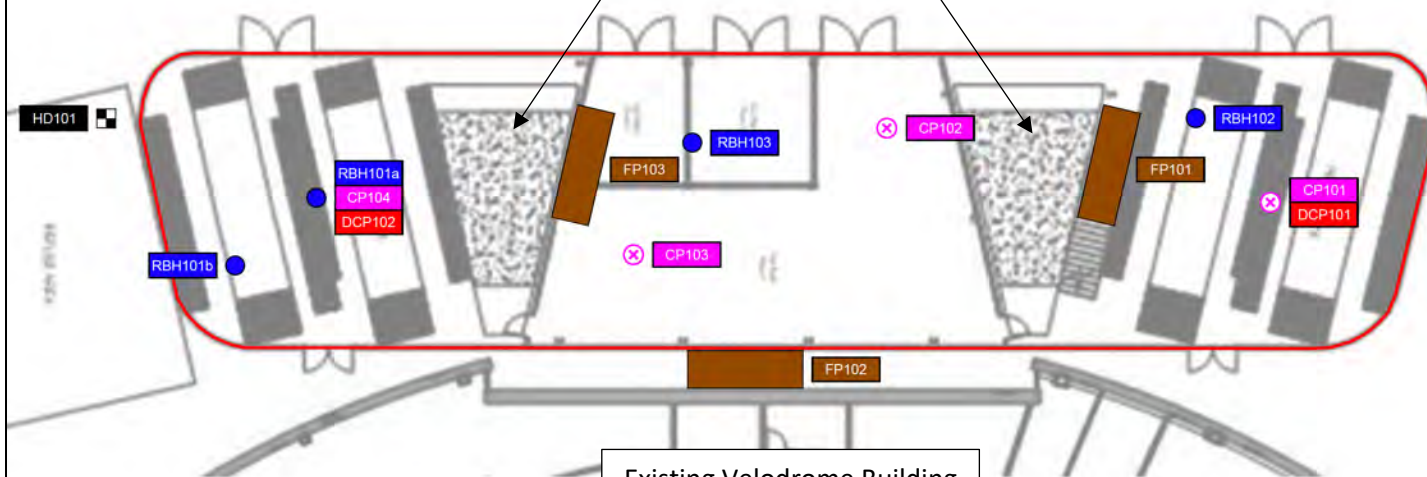
Date:

01/06/2021

Drawing No.: TLC1134/02



Thrusts



Existing Velodrome Building

KEY

-  Site Boundary
-  Hand Dug Trial Pit (HD)
-  Rotary Borehole (RBH)
-  Cable Percussive Borehole (CP)
-  Dynamic Cone Penetrometer Hole (DCP)
-  Foundation Pit (FP)

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Project:

Manchester Velodrome, National Cycling Centre,
Stuart Street, Manchester M11 4DQ

Title:

Plant Room Proposed Layout Plan displaying
Exploratory Hole Locations

Scale:

As Shown

Drawn by:

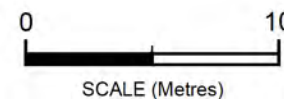
SFK

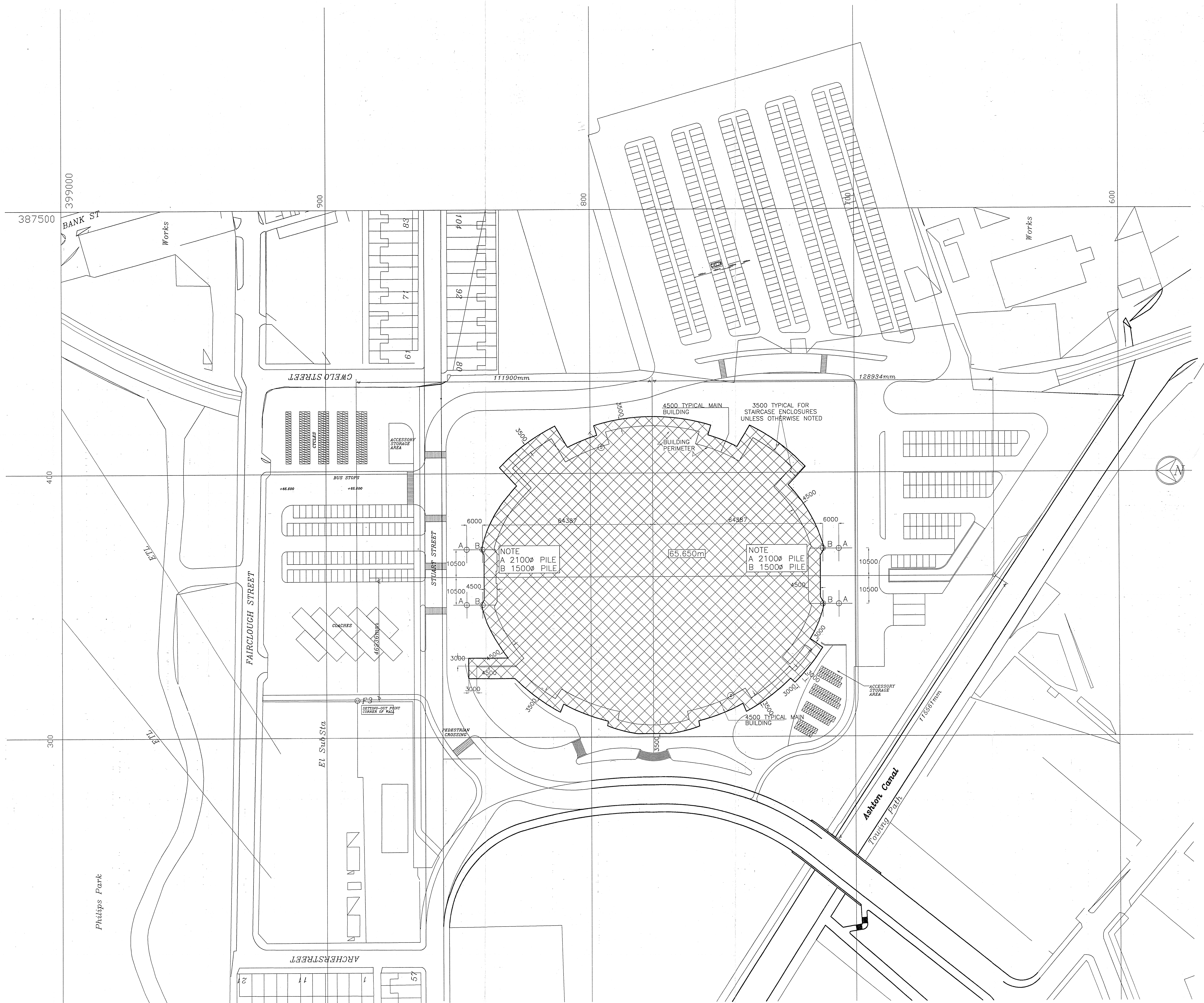
Date:

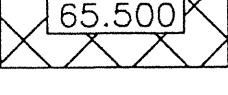
01/06/2021

Drawing No.: TLC1134/03

Extract from: Plan Supplied by Client
Drawing Ref: Manchester Velodrome (Plant Room)





- 1 EXISTING FOUNDATIONS TO BE BROKEN OUT AT POSITIONS OF 4 No PILES ON NORTH END OF BUILDING AND BACKFILLED WITH SUITABLE FILL MATERIAL FROM SITE MOUND.
- 2 BREAKING OUT TO BE A MIN. OF 750 BEYOND PILE PERIMETER (i.e. 3500 hole for 2000 dia pile).
- 3 ALL EXCAVATIONS TO BE FILLED BACK TO EXISTING GROUND LEVEL AND COMPACTED BY TRACKING IN.
- 4  DENOTES DEMOLITION FILL MATERIAL FROM THE SITE MOUND SPREAD OVER THE AREA INDICATED WITH THE FILL BEING AS INDICATED

TOP LEVEL OF
(i.e. 65,500)

ANY LARGE PIECES OF DEMOLITION FILL MATERIAL, WHICH ARE UNSUITABLE FOR TIGHTENING BY DYNAMIC COMPACTION ARE TO BE REMOVED PRIOR TO SPREADING THE FILL MATERIAL OVER THE BUILDING AREA.

- 5 THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS DRAWINGS.

AS BUILT DRAWING										
DRG No.		REV		DRAWING TITLE						
REFERENCE DRAWINGS										
D	All access outside main building fire (GRP LINC D) modified Note number 5 added.						RSE	CL	JM	<i>John</i>
E	Fit new under building related by 150mm to R5.650m level. Diameter of pipes ref'd increased to 2100 Fire of fit added for exterior, retaining walls/fatirones on NW end SW skims and main entrance on west side. Edge of fit modified as well sides. Note No 2 revised - 5000 changed to 3000 and changed to 3000. Drain & level of diversion fit material added over building footprint. Note No 4 coded.						RSE	AH	JM	<i>John</i>
A							RSE	SCP	JM	<i>John</i>
REV	DATE	DESCRIPTION OF REVISION					CHANGE REQ. BY	DATE	CMD BY	APPROV BY
CONTRACT No. 6182							ENGINEER			J.B WORTEN
CLIENT AMEC BUILDING LTD NORTHERN DIVISION							DRAWN			S.C.P.
TITLE MANCHESTER VELODROME SITE PLAN ENABLING WORKS							CHECKED			P.D.
							APPROVED			<i>John</i>
							SCALE			1:500
 AMEC Design and Management AMEC Design and Management Limited										
Drawing Number. 6182/2101				Rev'D						

APPENDIX B
EXPLORATORY HOLE LOGS

**LK CONSULT LTD**Eton Business Park, Eton Hill Road, Radcliffe, M26 2ZS
Tel: 0161 763 7200 web: www.thelkgroup.comSite
Velodrome ISGBorehole
Number
RBH101A**Machine :**

Flush : Mist

Core Dia: mm

Method : Rotary Open Hole

Casing Diameter**Ground Level (mOD)**

66.00

Client

ISG plc

**Job
Number**
LKC 20 1527**Location (Observed measurements)**

387342 E 398847 N

Dates04/05/2021-
05/05/2021**Engineer**

LKC

Sheet
1/1

Depth (m)	TCR (%)	SCR (%)	RQD (%)	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
						65.95	0.05 (0.25)	MADE GROUND: Paving slab.		
						65.70	0.30 (0.90)	MADE GROUND: Yellowish brown gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse, angular to subangular comprising limestone and sandstone. Probable MOT.		
						64.80	1.20 (3.80)	MADE GROUND: Brownish grey sandy clayey GRAVEL with low brick and sandstone cobble content, occasional brick fragments, clinker, plastic pieces and metal fragments. Sand is fine to coarse. Gravel is fine to coarse, angular comprising limestone and mudstone. Rotary hole advanced from CP104, soil descriptions above 1.20mbgl extracted from CP104 log. Material logged from hand dug pits prior to drilling. 1. Rotary flush presented MADE GROUND brick and sandstone chippings. Similar to brick made ground material above.		
						61.00	5.00 (0.50)	1. Rotary flush presented CONCRETE chippings. Possible steel reinforcement bar present at depth given density and limited advancement at depth.		
						60.50	5.50	Terminated at 5.50m		

Remarks

Borehole terminated at 5.50mbgl in possible concrete with steel reinforcement bar.
Rotary borehole terminated shallow of 40.00mbgl due to concrete/steel obstruction at 5.50mbgl.
Elevation estimated from <https://www.freemaptools.com/elevation-finder.htm>.
Location estimated from <https://gridreferencefinder.com/>, and is accurate to 3-5m.
Descriptions from drillers logs below 1.20mbgl.
Rotary hole advanced from CP104, soil descriptions above 1.20mbgl extracted from CP104 log.
1. Drillers logs

**Scale
(approx)**

1:50

**Logged
By**

BR

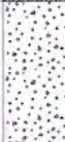
Figure No.

LKC 20 1527 RBH101A

LK GROUP LK CONSULT LTD Eton Business Park, Eton Hill Road, Radcliffe, M26 2ZS Tel: 0161 763 7200 web: www.thelkgroup.com						Site Velodrome ISG		Borehole Number RBH101B		
Machine : Flush : Mist Core Dia: mm Method : Rotary Open Hole		Casing Diameter		Ground Level (mOD) 66.00		Client ISG plc		Job Number LKC 20 1527		
		Location (Observed measurements) 387344 E 398851 N		Dates 04/05/2021- 05/05/2021		Engineer LKC		Sheet 1/1		
Depth (m)	TCR (%)	SCR (%)	RQD (%)	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
						65.95	0.05 (0.25)	MADE GROUND: Paving slab.		
						65.70	0.30 (0.90)	MADE GROUND: Yellowish brown gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse, angular to subangular comprising limestone and sandstone. Probable MOT.		
						64.80	1.20 (3.80)	MADE GROUND: Brownish grey sandy clayey GRAVEL with low brick and sandstone cobble content, occasional brick fragments, clinker, plastic pieces and metal fragments. Sand is fine to coarse. Gravel is fine to coarse, angular comprising limestone and mudstone. Material logged from hand dug pits prior to drilling. 1. Rotary flush presented MADE GROUND brick and sandstone chippings. Similar to made ground brick material above.		
						61.00	5.00 (0.50)	1. Rotary flush presented CONCRETE chippings. Possible steel reinforcement bar present at depth given density and limited advancement when drilling.		
						60.50	5.50	Termination at the same depth as RBH101a. Terminated at 5.50m		
Remarks Rotary borehole terminated shallow of 40.00mbgl due to possible concrete with steel reinforcement bar at 5.50mbgl Elevation estimated from https://www.freemaptools.com/elevation-finder.htm . Borehole terminated at 5.50mbgl in possible concrete with steel reinforcement bar. The same depth at RBH101a. Location estimated from https://gridreferencefinder.com/ , and is accurate to 3-5m. 1. Drillers logs									Scale (approx) 1:50	Logged By BR
									Figure No. LKC 20 1527.RBH101A	

LK GROUP LK CONSULT LTD Eton Business Park, Eton Hill Road, Radcliffe, M26 2ZS Tel: 0161 763 7200 web: www.thelkgroup.com						Site Velodrome ISG		Borehole Number RBH102		
Machine : Flush : Mist Core Dia: mm Method : Rotary Open Hole		Casing Diameter		Ground Level (mOD) 66.00		Client ISG plc		Job Number LKC 20 1527		
		Location (Observed measurements) 387376 E 398850 N		Dates 04/05/2021-05/05/2021		Engineer LKC		Sheet 1/1		
Depth (m)	TCR (%)	SCR (%)	RQD (%)	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
						65.80	(0.20)	CONCRETE with rebar, approximate diameter 5mm.		
						65.70	0.20 0.30	MADE GROUND: Yellowish brown gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse, angular to subangular comprising limestone and sandstone. Probable MOT.		
							(0.90)	MADE GROUND: Brownish grey sandy clayey GRAVEL with low brick and sandstone cobble content, frequent concrete and brick fragments. Sand is fine to coarse. Gravel is fine to coarse, angular comprising limestone and mudstone. Materials logged from hand dug pits prior to drilling.		
						64.80	1.20	1. Rotary flush presented MADE GROUND chippings comprising brick and other constituents. Noted to be similar material to 0.3-1.2mbgl.		
							(1.80)			
						63.00	3.00	1. Rotary flush presented CONCRETE chippings.		
							(2.50)			
						60.50	5.50	1. Rotary flush presented MADE GROUND chippings comprising brick and other constituents. Noted to be similar material to brick made ground above.		
						60.00	(0.50)			
						59.70	6.00 (0.30) 6.30	1. Rotary flush presented CONCRETE chippings with possible steel reinforcement bar given density and limited advancement when drilling.		
								Terminated at 6.30m		
Remarks Rotary borehole terminated shallow of 40.00mbgl due to possible concrete with reinforcement bar at 6.30mbgl. Elevation estimated from https://www.freemaptools.com/elevation-finder.htm. Borehole terminated at 6.30mbgl. Location estimated from https://gridreferencefinder.com/, and is accurate to 3-5m. 1. Drillers Logs									Scale (approx) 1:50	Logged By BR
									Figure No. LKC 20 1527.RBH102	

LK GROUP LK CONSULT LTD Eton Business Park, Eton Hill Road, Radcliffe, M26 2ZS Tel: 0161 763 7200 web: www.thelkgroup.com						Site Velodrome ISG		Borehole Number RBH103			
Machine : Flush : Mist Core Dia: mm Method : Rotary Open Hole		Casing Diameter		Ground Level (mOD) 66.00		Client ISG plc		Job Number LKC 20 1527			
		Location (Observed measurements) 387358 E 398850 N		Dates 04/05/2021-05/05/2021		Engineer LKC		Sheet 1/1			
Depth (m)	TCR (%)	SCR (%)	RQD (%)	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	
						65.90	0.10	MADE GROUND: Paving slab.			
						65.70	(0.20)	MADE GROUND: Yellowish brown gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse, angular to subangular comprising limestone and sandstone. Probable MOT.			
						65.40	0.60				
						65.00	(0.40)	MADE GROUND: Brownish grey sandy clayey GRAVEL with occasional brick fragments, concrete fragments and plastic pieces. Sand is fine to coarse. Gravel is fine to coarse, angular comprising limestone and mudstone. Material logged from hand dug pits prior to drilling.			
							1.00	1. Rotary flush presented CONCRETE chippings.			
							(1.10)	1. Rotary flushed presented MADE GROUND chippings, comprising brick fragments, timber, plastic and sandstone.			
						63.90	2.10				
						63.60	(0.30)	1. Rotary flush presented CONCRETE chippings.			
							2.40	1. Rotary flushed presented MADE GROUND chippings, comprising brick fragments and sandstone.			
							(1.10)				
						62.50	3.50	1. Rotary flush presented CONCRETE chippings with possible steel reinforcement bar given density and limited advancement when drilling.			
						62.40	3.60	Terminated at 3.60m			
Remarks Elevation estimated from https://www.freemaptools.com/elevation-finder.htm. Borehole terminated at 6.30mbgl. Location estimated from https://gridreferencefinder.com/, and is accurate to 3-5m. 1. Drillers Logs										Scale (approx) 1:50	Logged By BR
Figure No. LKC 20 1527.RBH103											

LK GROUP LK CONSULT LTD Eton Business Park, Eton Hill Road, Radcliffe, M26 2ZS Tel: 0161 763 7200 web: www.thelkgroup.com					Site Velodrome ISG		Borehole Number CP101		
Boring Method Cable Percussion		Casing Diameter 150mm cased to 2.00m		Ground Level (mOD) 66.00		Client ISG plc		Job Number LKC 20 1527	
		Location (Observed measurements) 387377 E 398847 N		Dates 04/05/2021-05/05/2021		Engineer LKC		Sheet 1/1	
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.60 0.60-1.00	D2 ES1 PID=0.2ppm				65.85 65.65 65.45	(0.15) (0.15) (0.20) (0.35) (0.20) 0.55	CONCRETE with rebar, approximate diameter 5mm. Yellowish brown gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse, angular to subangular comprising limestone and sandstone. Probable MOT. CONCRETE.		
1.20-1.65 1.20-1.65 1.50	SPT N=10 S3 D4			2,3/3,3,2,2		(1.85)	MADE GROUND: Brownish grey sandy clayey GRAVEL with low brick and sandstone cobble content, frequent concrete and brick fragments. Sand is fine to coarse. Gravel is fine to coarse, angular comprising limestone and mudstone.		
2.30-2.70 2.30-2.70	SPT 50/250 S5			2,3/13,26,11	63.60	2.40	CONCRETE.		
3.20-3.35 3.20-3.35 3.40-3.45 3.40-3.45	SPT 25*/60 50/90 S6 SPT 25*/20 50/30 S7			25/50 25/50	62.55	3.45	Terminated at 3.45m		
Remarks Location estimated from https://gridreferencefinder.com/, and is accurate to 3-5m. Elevation estimated from https://www.freemaptools.com/elevation-finder.htm. Borehole terminated at 3.45mbgl in concrete, SPT taken between 3.40-3.45mbgl. Borehole dry and stable. Chiselling from 2.30m to 3.40m for 1.5 hours.								Scale (approx) 1:50	Logged By BR
								Figure No. LKC 20 1527.CP101	

LK GROUP LK CONSULT LTD Eton Business Park, Eton Hill Road, Radcliffe, M26 2ZS Tel: 0161 763 7200 web: www.thelkgroup.com					Site Velodrome ISG		Borehole Number CP102		
Boring Method Cable Percussion		Casing Diameter 150mm cased to 3.00m		Ground Level (mOD) 66.00		Client ISG plc		Job Number LKC 20 1527	
		Location (Observed measurements) 387364 E 398853 N		Dates 04/05/2021-05/05/2021		Engineer LKC		Sheet 1/1	
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.30-0.80	ES1 PID=0.1ppm				65.95 65.80	0.05 (0.15) 0.20	MADE GROUND: Paving slab. MADE GROUND: Yellowish brown gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse, angular to subangular comprising limestone and sandstone. MADE GROUND: Brownish grey sandy clayey GRAVEL with low brick and sandstone cobble content, occasional brick fragments, clinker, plastic pieces and metal fragments. Sand is fine to coarse. Gravel is fine to coarse, angular comprising limestone and mudstone.		
1.20-1.65 1.20-1.65	SPT N=17 S2			1,1/2,3,4,8		(3.00)			
2.30-2.75 2.30-2.75	SPT N=17 S3			4,4/5,4,4,4					
3.20-3.25 3.40-3.45 3.20-3.25	S4 S5 SPT 25*/30 50/20			Water strike(1) at 3.10m, rose to 3.00m in 20 mins. 25/50	62.80 62.55	3.20 (0.25) 3.45	CONCRETE. Terminated at 3.45m		
3.40-3.45	SPT 25*/20 50/30			25/50					
Remarks Location estimated from https://gridreferencefinder.com/, and is accurate to 3-5m. Elevation estimated from https://www.freemaptools.com/elevation-finder.htm. Borehole terminated at 3.45mbgl in concrete, SPT taken between 3.40-3.45mbgl. Perched groundwater noted at 3.10mbgl. Borehole stable. Chiselling from 3.20m to 3.40m for 0.5 hours.								Scale (approx) 1:50	Logged By
								Figure No. LKC 20 1527.CP102	

		LK CONSULT LTD Eton Business Park, Eton Hill Road, Radcliffe, M26 2ZS Tel: 0161 763 7200 web: www.thelkgroup.com				Site Velodrome ISG		Borehole Number CP103	
Boring Method Cable Percussion		Casing Diameter 150mm cased to 2.50m		Ground Level (mOD) 66.00		Client ISG plc		Job Number LKC 20 1527	
		Location (Observed measurements) 387356 E 398847 N		Dates 04/05/2021-05/05/2021		Engineer LKC		Sheet 1/1	
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.30-1.00	ES1 PID=0.2ppm				65.95 65.70	0.05 (0.25) 0.30	MADE GROUND: Paving slab. MADE GROUND: Yellowish brown gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse, angular to subangular comprising limestone and sandstone. Probable MOT. MADE GROUND: Brownish grey sandy clayey GRAVEL with moderate concrete cobble content, low brick cobble content, occasional brick fragments, clinker, plastic pieces and metal fragments. Sand is fine to coarse. Gravel is fine to coarse, angular comprising limestone and mudstone.		
1.20-1.60 1.20-1.60	SPT 50/250 S2			8,15/15,13,13,9		(2.90)			
2.20-2.65 2.20-2.65	SPT N=16 S3			6,5/4,4,4,4					
3.20-3.30 3.40-3.45 3.20-3.30	S4 S5 SPT 25*/70 50/30			Water strike(1) at 3.20m. 25/50	62.80 62.55	3.20 (0.25) 3.45	CONCRETE.		Σ1
3.40-3.45	SPT 25*/30 50/20			25/50			Terminated at 3.45m		
Remarks Location estimated from https://gridreferencefinder.com/ , and is accurate to 3-5m. Elevation estimated from https://www.freemaptools.com/elevation-finder.htm . Borehole terminated at 3.45mbgl in concrete, SPT taken between 3.40-3.45mbgl. Perched groundwater noted at 3.20mbgl. Borehole stable. Chiselling from 1.20m to 2.20m for 0.25 hours. Chiselling from 3.20m to 3.40m for 0.5 hours.								Scale (approx) 1:50	Logged By BR
								Figure No. LKC 20 1527.CP103	

LK GROUP LK CONSULT LTD Eton Business Park, Eton Hill Road, Radcliffe, M26 2ZS Tel: 0161 763 7200 web: www.thelkgroup.com					Site Velodrome ISG		Borehole Number CP104		
Boring Method Cable Percussion		Casing Diameter 150mm cased to 4.00m		Ground Level (mOD) 66.00		Client ISG plc		Job Number LKC 20 1527	
		Location (Observed measurements) 387342 E 398847 N		Dates 04/05/2021-05/05/2021		Engineer LKC		Sheet 1/1	
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.30-1.00	ES1 PID=0.2ppm				65.95 65.70	0.05 (0.25) 0.30	MADE GROUND: Tarmacadam. MADE GROUND: Yellowish brown gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse, angular to subangular comprising limestone and sandstone. Probable MOT. MADE GROUND: Brownish grey sandy clayey GRAVEL with low brick and sandstone cobble content, occasional brick fragments, clinker, plastic pieces and metal fragments. Sand is fine to coarse. Gravel is fine to coarse, angular comprising limestone and mudstone.		
1.20-1.65 1.20-1.65	SPT N=50 DB2			25/50					
2.00-2.45 2.00-2.45	SPT N=50 DB3			10,15/50		(4.50)			
3.00-3.45 3.00-3.45	SPT N=50 DB4			15,10/50					
4.00-4.50	B5			Water strike(1) at 4.20m, rose to 3.90m in 20 mins.	61.20 60.70	4.80 (0.50) 5.30	CONCRETE. Terminated at 5.30m		
Remarks Location estimated from https://gridreferencefinder.com/, and is accurate to 3-5m. Elevation estimated from https://www.freemaptools.com/elevation-finder.htm. Borehole terminated at 5.30mbgl in possible concrete. Limited recovery. Groundwater encountered at 4.2mbgl. Borehole stable. Possible concrete with steel encountered at 4.80mbgl, given site ground conditions. Limited recovery therefore cannot determine material. Chiselling from 4.80m to 5.30m for 1 hour.								Scale (approx) 1:50	Logged By BR
								Figure No. LKC 20 1527.CP104	

APPENDIX C
COAL AUTHORITY PERMISSIONS CERTIFICATE



The Coal
Authority

Permit to Enter or Disturb Coal Authority Interests

Permit 21153

Name and Address of Permit Holder:

ISG Plc
5th Floor
Tomorrow Building
Media City UK
Salford
M50 2AB

Site Location:

Manchester Velodrome
National Cycling Centre
Manchester
M11 4DQ

This certificate hereby grants the above named Permit Holder a Permit to carry out:-

Investigation by two boreholes to 40m bgl to determine presence of shallow mine workings/coal seams

within the Authority's interests at the identified site location above as shown on the Grant Permit Boundary (overleaf) for the period of 12 months from the granted date shown below. *The granting of this Permit does not constitute advice given by the Authority in relation to the proposed operations. It is the Permit Holder's responsibility to obtain appropriate health, safety, environmental, technical and legal advice.*

Conditions:

- *Water flush*
- *Gas Monitoring CO, CH₄, CO₂, O₂, H₂S at borehole and rig*
- *Operators undertaking the work must be in possession of this certificate and the Permit boundary plan at the time of works*
- *Appropriate borehole sealing without delay and to withstand site level changes*

Signed: Simeon Burgess Granted Date: 21/12/2020

For and on behalf of The Coal Authority

Nominated Representative: Simeon Burgess, Permitting Manager;

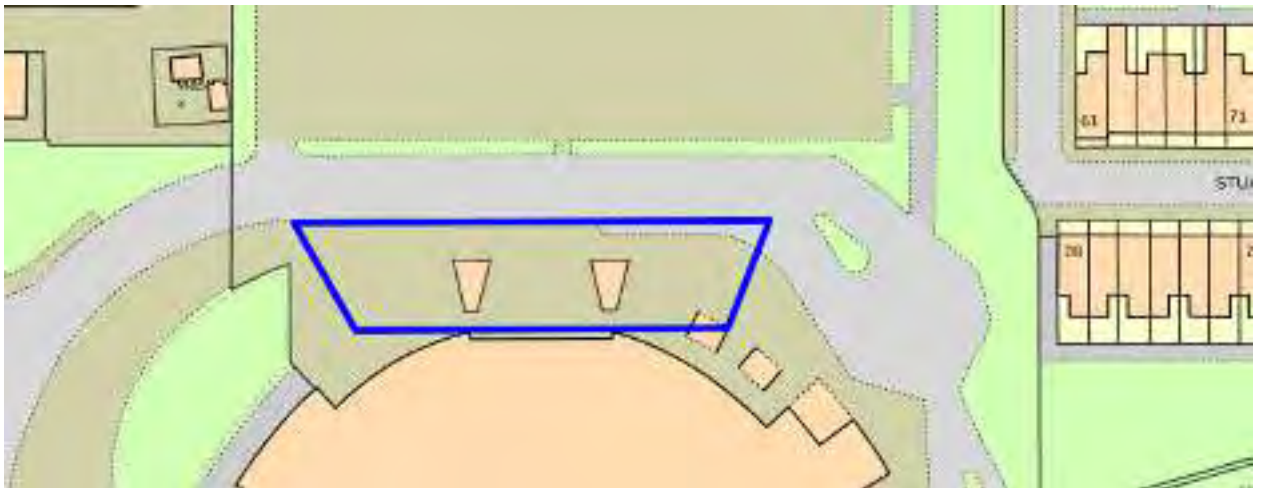
The Coal Authority, Permitting Office, 200 Lichfield Lane, Mansfield, Notts, NG18 4RG

Tel: 01623 637450; E-Mail: permissions@coal.gov.uk

Granted Permit Boundary

Permit Ref: 21153

Permit Boundary:



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