



Enabling Works Handover Document

Victoria Riverside, Manchester

CLIENT: FEC



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APPENDICES

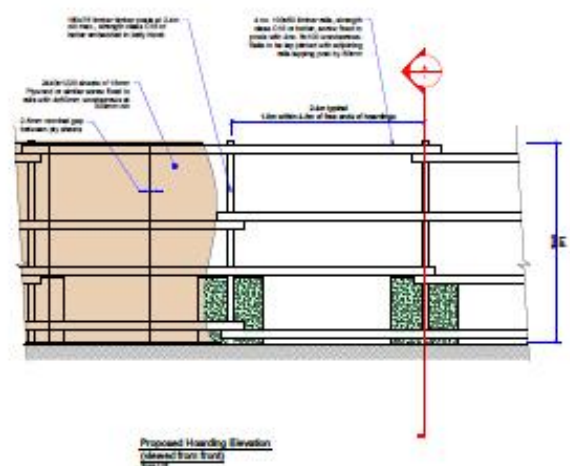
- 1 Progress Programme, April, May, and June.**
- 2 Waste carrier licence for all supply chain.**
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- 9 Topo and survey of piles and obstructions.**

1) Introduction

1.1 The document will serve as our confirmation and your agreement of various aspects respecting the handover of Victoria Riverside once all agreed enabling works have been carried out.

2) Hoarding erection and Inspections

2.1 – The hoarding design, erection and painting was carried out at Victoria Riverside as per instructions.



Hoarding design was completed by NK Engineering on behalf of Henry Construction as instructed by FECIL on the kentledge block design to allow for altering later and painted to RAL 7011 dark grey as per email 06.04.2021.

Temporary works drawing NK-2906-001 Site Hoarding

2.2- Nesting Bird inspection and invasive species inspection carried out before removal of vegetation commenced on site, document sent to confirm on 08.04.2021.

Giant Hogweed growing on the premises next to the MOT Centre. Need to monitor when it begins to flower. (Note)

Nesting bird's inspection Record form and photos attached to this document.

3) WAC Testing.

3.1 – Hazardous waste was identified in four possible locations during the site investigation Locations ST8, ST9, ST10 and ST13

WAC testing was carried out in 6 no locations to determine if the waste would be accepted at landfill.

Sampling Location	Hazardous Waste Y/N	Hazard (Risk Phrase)	Contaminants
ST13 (0.45-1.50m)	Y	HP7 (Carcinogenic), HP11 (Mutagenic)	TPH
ST14 (0.60-1.50m)	N	-	-
ST12 (0.20-1.20m)	N	-	-
ST11 (0.70-1.70m)	N	-	-
ST8 (0.10-1.10m)	Y	HP7 (Carcinogenic), HP11 (Mutagenic)	TPH
ST10 (0.60-1.00m)	N	-	-
ST9 (0.40-1.00m)	Y	HP7 (Carcinogenic), HP11 (Mutagenic)	TPH
TP11 (0.10-1.10m)	N	-	-
TP10 (0.10-1.10m)	Y	HP8 (Corrosive)	pH
WS102 (0.10-1.10m)	N	-	-
WS102 (2.60-3.00m)	N	-	-
WS103 (0.10-1.00m)	N	-	-
WS103 (2.20-3.00m)	N	-	-
TP9 (0.10-1.10m)	N	-	-
WS104 (0.10-1.10m)	N	-	-
WS104 (2.70-3.00m)	N	-	-
WS105 (1.00-2.00m)	N	-	-
WS106 (0.10-1.10m)	N	-	-

Table 7-1: Summary HazWasteOnline findings.

The below documents are attached to this report.

- Wac Test Location drawing
- Wac test result. (Excel)
- Certificate of Analysis

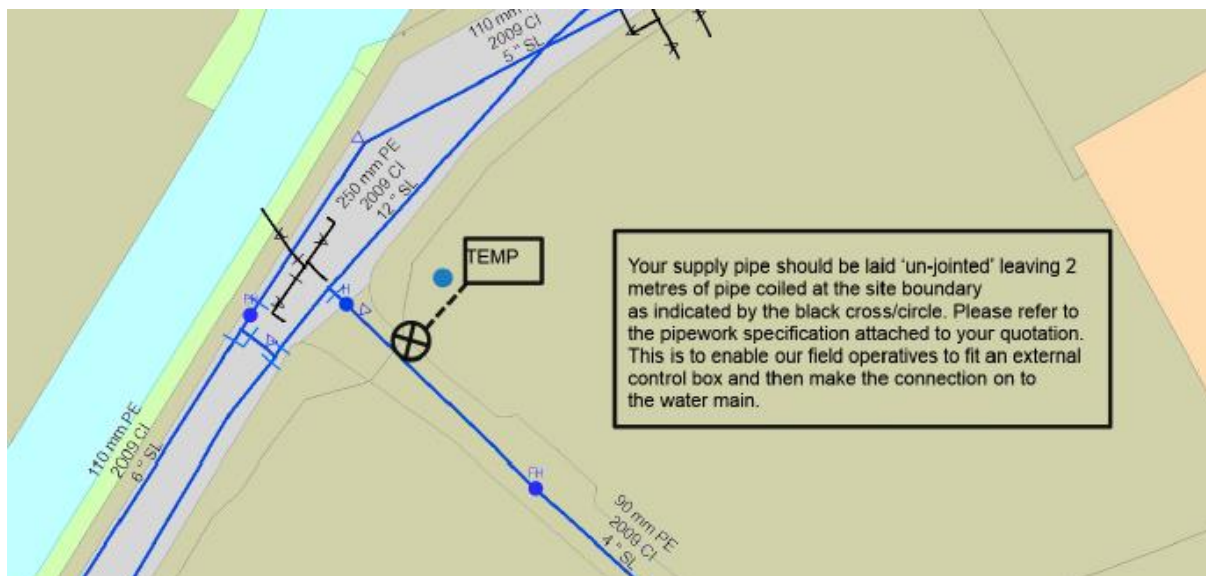
4) Temporary water connection point

4.1 – At the start of the enabling works we applied for a temporary water connection from the mains water along Bromley St.

The below documents are attached to this report.

- Wiaps Cert attached to document.
- Acceptance notes for Victoria Riverside.
- A2 Temp Supply drawing.
- Point of Connection
- Quote letter

- Copy of the application.



5) Disposal of spoil and waste

5.1 – Our preferred contractor for the removal of spoil and hardcore and the delivery of imported recycled 6F2 and MOT Type 1 was

McDonnell Haulage Ltd

10 Turnpike Close
Rochdale
OL12 6HG

All spoil and hardcore removed from site were taken to.
Chartrange (Quarry Products) Limited
Overman Way,
Agecroft,
Commercial Park,
Salford
M27 8UT

The below documents are attached to this report.

- McDonnell Carrier Registration Cert
- Chartrange Carrier Registration Cert
- Waste Transfer Note
- Hazard Material Transfer Note
- Chartrange Quarry Products Limited full permit
- MOT Type 1 Grading certs.

Carriers details

Name of registered carrier	MCDONNELL HAULAGE LTD
Registered as	an upper tier waste carrier, broker and dealer
Registration number	CBDU46027

- Grading Certs for recycled 6F2

5.2 – Our preferred contractor for the removal of waste was

W. Leeson and Son

48 Ashlands

Sale

M33 5PD

Carriers details

Name of registered carrier William Leeson
Business name (if applicable) W. Leeson & Son
Registered as an upper tier waste carrier, broker and dealer
Registration number CBDU100836

Due to the large number of tyres and waste mixed into the site backfill we handpicked the waste and used mixed waste skips to remove from site where Leeson and Sons separated to prevent the waste going to landfill.

The below documents are attached to this report.

- Waste Carrier Registration Cert.
- Waste transfer note sample.
- Waste Management Licence
- W Leeson and Son – Environmental Policy
- Extract below from April's report showing percentage of waste prevented from going to landfill.

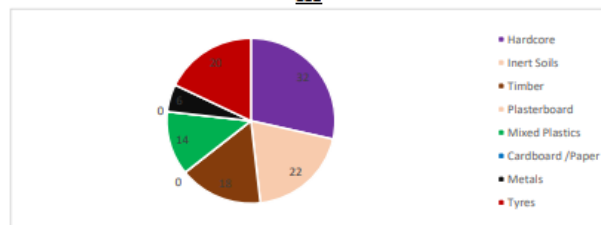
W LEESON & SON

Waste report April 2021

Client: Henry Construction Ltd
Site: Dantzic Street, Manchester
Report Date: Jun-21

Total extracted from this site			112 cubic yds
Waste Type	EWG Code	Quantity (cubic yards)	Approx Recycle Rate %
Hardcore	17.01.02	32	100
Inert Soils	17.05.04	22	100
Timber	17.02.01	18	100
Plasterboard	17.08.02	0	95
Mixed Plastics	17.02.03	14	80
Cardboard /Paper	15.01.01	0	85
Metals	17.04.07	6	100
Tyres	19.12.12	20	70

112



Total of 112 cubic yards extracted from the site, 101.92 cubic yards of waste were recycled.
Recycling percentage of 91%, preventing 101.92 cubic yards of waste going to landfill.

Total extracted from site	112 cubic yds
Total recycled from site	101.92 cubic yds
Recycling percentage	91%
Total of waste prevented from landfill	101.92 cubic yds

6) Removal of Obstructions and recording locations.

6.1 – All obstructions were located as per the site investigation report, before the breaking out of the obstructions commenced, we installed the Vibration, Dust and Noise monitoring stations. The timescale for this activity is demonstrated in the monthly reports. All the obstructions were recorded on a weekly basis and uploaded to the model. Photographic evidence was also recorded as the works progressed.

The below documents are attached to this report.

- Cad drawing showing position/depths/pics of all obstructions prior to removal.
- Cad drawing showing positions and cut off levels of piles.
- KP Acoustics Vibration/Dust and Noise monitoring report.

7) Formation inspection by LK Consult.

7.1 – LK Consult Limited were instructed to attend site on 20th May 2021 as a geotechnical specialist to witness the excavation of 10 trial pits to establish the depth to sandstone bedrock.

A qualitative assessment of the strength of the rock was made from field observations and by difficulty in excavation with a mechanical excavator at each trial pit location. A conservative assessment of the strength of the sandstone at all the locations is 5MPa.

The below document is attached to this report.

- Victoria Riverside, Formation inspection.

8) UU Risk Assessment

8.1 – As requested by the client we procured the services of LK Consult Ltd to complete and sign the United Utilities risk assessment for water pipes.

The document was completed by Chris Hughes LK Group on the 18/05/2021 and forwarded to Harry Gawler, Nick Whitehouse, and Gary White on the 18.05.2021

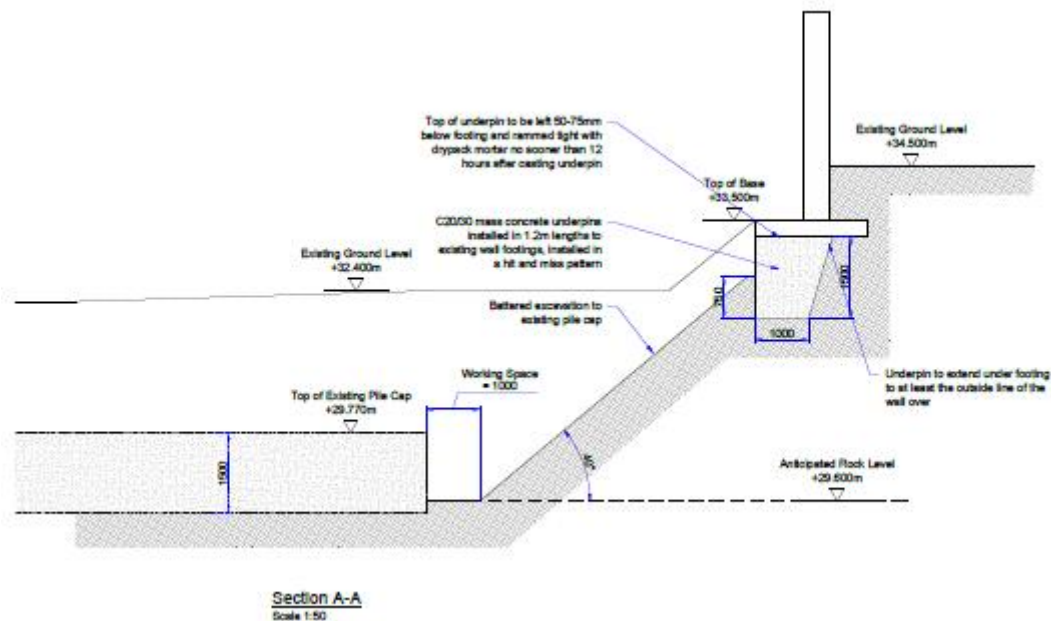
The below document is attached to this report.

- UURA Victoria Riverside

9) Underpinning of boundary wall.

9.1 To excavate and remove the existing pile cap close to the boundary wall we had NK Engineering design an underpinning sequence to allow us to batter the ground back to allow enough room for us to remove the base and follow-on trades working space.

No Party wall agreement required confirmed by FECIL on 30/04/2021 by email, works commenced on the 04.05.2021 and were completed as per design on the 07.05.2021 to allow us to commence excavation of the large pile cap adjacent to the boundary wall.

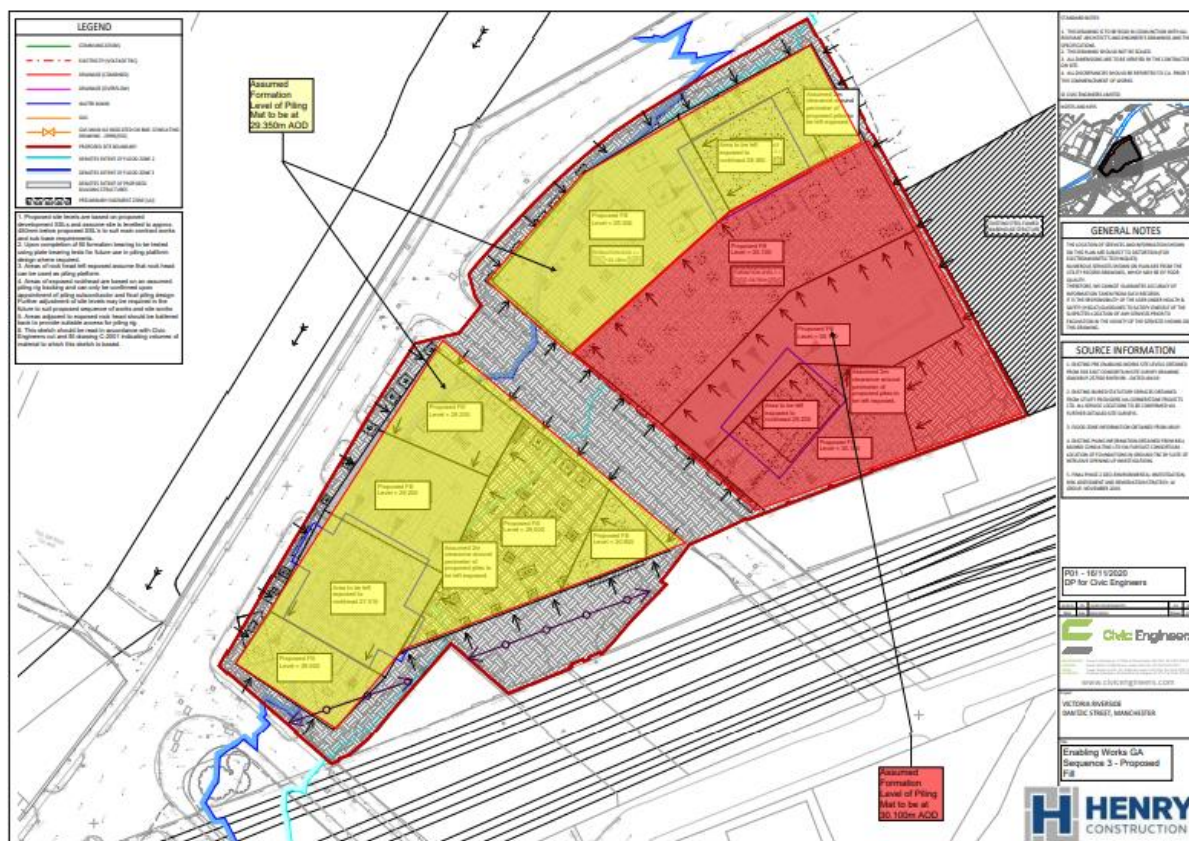


The below documents are attached to this report.

- Email confirming no party wall agreement required to carry out the works.
- Temporary works design, sequence, and methodology drawing.

[Temporary works drawing NK-2906-002 Underpinning to boundary wall](#)

10.1 - The working platform has been constructed to the levels on drawing Enabling works
GA Sequence 3 proposed fill drawing (see below)



Pressure Summary for Platform Design				
Mode	Loadcase	Length (m)	Width (m)	Pressure (m)
Standing	1	4.07	0.8	103
Travelling	1	4.07	0.8	103
Handling	1	3.02	0.8	173
Penetrating	2	2.4	0.8	163
Extracting	2	2.31	0.8	272

Loads above are unfactored
Railway proximity factors not applied

10.2 – A full topographical survey has been taken over the working platform with the levels and location recorded on a CAD drawing.

10.3 – CBR plate bearing test, we procured Socotec to carry out a minimum of 8 number CBR test on the working platform and additional testing once the drainage diversion is complete.

Testing Requirements

In order to verify the assumptions in the design, a series of plate bearing tests should be carried out to confirm the ground conditions following installation of the piling mat.

Where there is any uncertainty as to the condition of the sub-base material following removal of any overburden / loose material, plate tests should be carried out.

A minimum of 8 no. tests over the site area should be carried out on representative ground areas across the site.

Maximum anticipated bearing pressure on ground from piling operations	=	272 kPa
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Plate diameter	=	450 mm
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Plate area	=	0.159 m ²
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Plate load	=	43.28 kN
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FOS required	=	1.5
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Test Load	=	64.92 kN
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Test pressure	=	408 kPa
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Minimum weight of site plant to act as kentledge		13.0 t machine
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Notes :

- Alternative size plates may be used to suit site conditions provided loading criteria are satisfied
- Plate bearing tests should be carried out up to the required test pressure or a maximum settlement of 10mm

The below documents are attached to this report.

- Temporary works design report Piling Mat Design
- Pile mat finish level survey
- CBR/Plate bearing test results.

[Temporary works design NK -2906- Rep -001 01 Piling Mat](#)

11- Drainage diversion

At present Manhire have submitted all the technical information requested from UU.

- Trail hole and inspection of boundary wall to confirm removal for the drainage diversion. Email sent to FECIL on 18.05.2021.
- Confirmation email from FECIL that the wall resides on their land and no party wall agreement was required.
- Removed section of wall for diversion and grubbed out the foundation, the remaining section of wall was support using timbers and kentledge blocks.
- We have exposed the sewer run into site from Parlene St.
- We have carried out the trial holes to determine the location of the manhole on Gould St and provided dimensions of all services to Manhire associates to enable design.
- We have proof dug along the proposed route to ensure there are no obstructions and plotted the route, this was provided to Manhire who detailed this on drawing Section 185 Diversion agreement plan C1140, once produced it was forwarded to FECIL to have Civic Engineers confirm it was not obstructing the construction of Pad foundations in this area. (Still waiting reply)
- Authorisation requested from Plant Protection (Cadent gas) to dig near gas mains.
- Waiting on acceptance from UU so we can speak to Bam and Rail utilities about working on Gould St while they have the road closure in place.
- If we cannot carry out the works before the 25th of August a separate road closure will have to be applied for or an extension to Network Rails.
- All the materials required to carry out the drainage works have been ordered from Keyline.
- Pipe bedding and backfill material will be ordered from our preferred supplier mentioned earlier.
- Concrete for forming manhole bases will be supplied by Hanson concrete.
- Temporary works item, Manhole boxes, drag boxes, trench sheets and braces will be supplied by MGF. All technical information on file.
- Pumps will be sourced from Andrew Sykes pumps for over pumping or dealing with potential flooding.
- All Risk Assessments, Method Statements, Confined Space entry, Emergency procedures has been prepared. The operatives have all the required training to carry out the works safely.