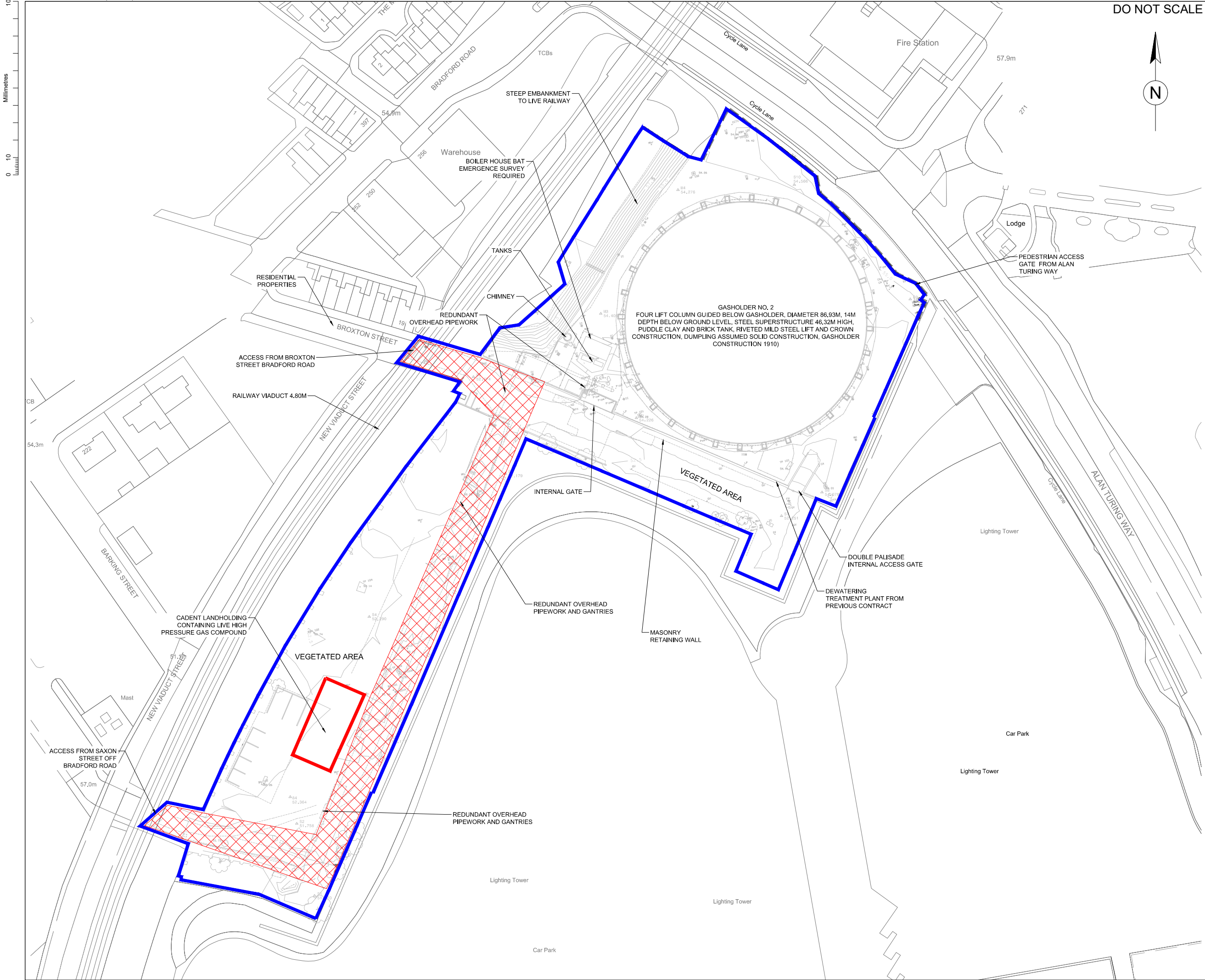




DO NOT SCALE

- KEY:**
- NATIONAL GRID PROPERTY SITE OWNERSHIP BOUDNARY (CONTRACTOR TAKEOVER FROM BNP-PRE)
 - CADENT GAS SITE BOUNDARY
 - SHARED ACCESS WITH CGL

- NOTES:**
- DO NOT SCALE FROM THIS FIGURE.
 - THIS DRAWING IS TO BE READ IN FULL COLOUR.

P02	14/07/22	FOR INFORMATION	ME	CW	RG
P01	11/05/22	FOR INFORMATION	CW	NS	RG
Rev.	Date	Description	By	Chk'd	App'd

Drawing Status	FOR INFORMATION	Suitability	S2
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Glasgow
G1 4RU

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NATIONAL GRID PROPERTY HOLDINGS

Project Title

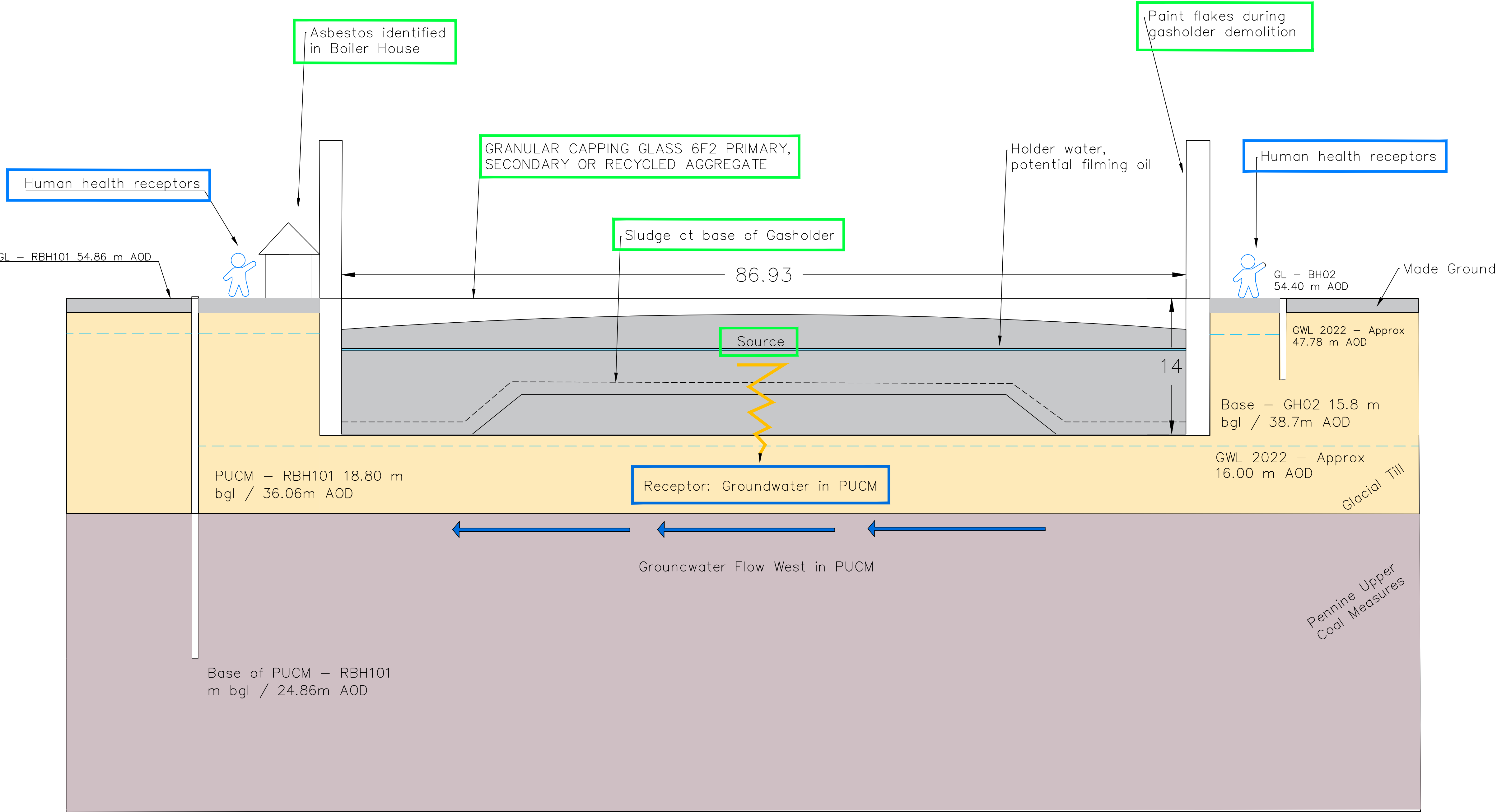
NGPH BRADFORD ROAD
DEMOLITION AND INFILLING

Drawing Title

SITE LAYOUT PLAN

Scale	Designed	Drawn	Checked	Authorised
1:1,250	-	CW	NS	RG
Original Size	Date	Date	Date	Date
A3	-	06/05/2022	11/05/2022	11/05/2022
Drawing Number	FIGURE 2			Revision
				P02

EastWest



Rev.	Date	Description	By	Chk'd	App'd
Drawing Status					Suitability
FOR INFORMATION					S2

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ATKINS

The Hub
500 Park Avenue
Aztec West
Bristol
BS32 4RZ
Tel: +44 (0)1454 662000
Fax: +44 (0)1454 663333
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Project Title
NGPH BRADFORD ROAD
DEMOLITION AND INFILLING

Drawing Title
CONCEPTUAL SITE MODEL

Scale	Designed	Drawn	Checked	Authorised
NOT TO SCALE	AD	CW	MC	RG
Original Size	Date	Date	Date	Date
A1	23/05/2022	23/05/2022	23/05/2022	27/07/2022
Drawing Number				Revision
FIGURE 5				02

4. ALL SERVICES ARE SHOWN INDICATIVELY.

 NATIONAL GRID PROPERTY SITE OWNERSHIP BOUNDARY (CONTRACTOR TAKEOVER FROM BNP-PRE)
 CADENT GAS SITE BNP BOUNDARY
 SHARED ACCESS WITH CGL
 BOREHOLE TO BE PROTECTED DURING THE WORKS

SERVICES INDICATIVELY OVERLAIN FROM PLANS
OBTAINED JULY 2022

UNITED UTILITIES - COMBINED SEWER

MANCHESTER CITY COUNCIL CABLE

P01	22/07/22	FOR INFORMATION	MF	NS	RG
Rev.	Date	Description	By	Chk'd	App'd

Drawing Status **FOR INFORMATION**



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NATIONAL GRID PROPERTY HOLDINGS

Project Title

NGPH BRADFORD ROAD
DEMOLITION AND INFILLING

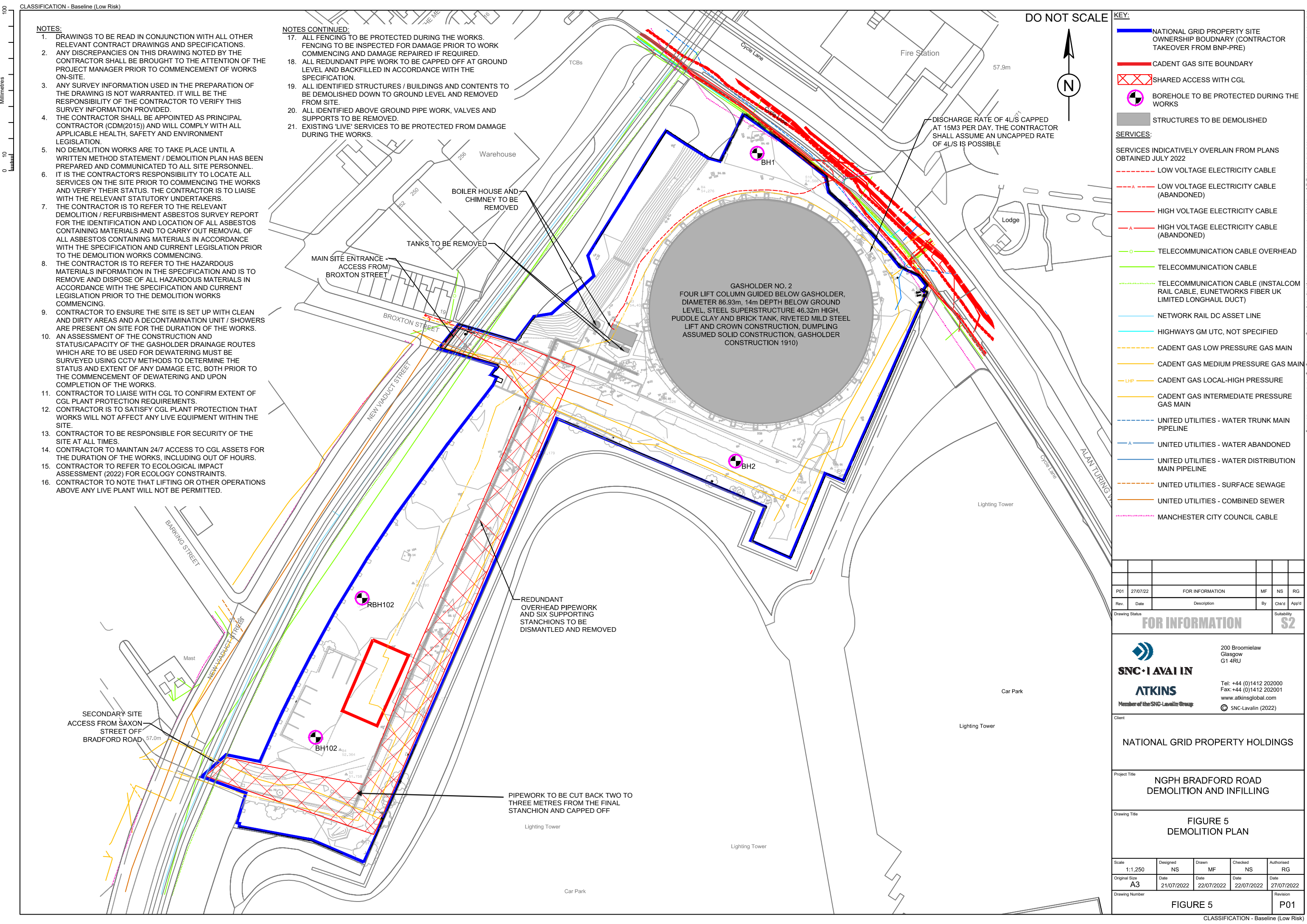
Drawing Title

FIGURE 4
CONSTRAINTS PLAN

Scale 1:1,250	Designed NS	Drawn MF	Checked NS	Authorised RG
Original Size A3	Date 21/07/2022	Date 22/07/2022	Date 22/07/2022	Date 27/07/2022

Drawing Number	Revision
FIGURE 4	P01

CLASSIFICATION - Baseline (Low Risk)



- NOTES:**
1. DRAWINGS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT CONTRACT DRAWINGS AND SPECIFICATIONS.
 2. ANY DISCREPANCIES ON THIS DRAWING NOTED BY THE CONTRACTOR SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT MANAGER PRIOR TO COMMENCEMENT OF WORKS ON-SITE.
 3. ANY SURVEY INFORMATION USED IN THE PREPARATION OF THE DRAWING IS NOT WARRANTED. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THIS SURVEY INFORMATION PROVIDED.
 4. THE CONTRACTOR SHALL BE APPOINTED AS PRINCIPAL CONTRACTOR (CDM(2015)) AND WILL COMPLY WITH ALL APPLICABLE HEALTH, SAFETY AND ENVIRONMENT LEGISLATION.
 5. NO DEMOLITION WORKS ARE TO TAKE PLACE UNTIL A WRITTEN METHOD STATEMENT / DEMOLITION PLAN HAS BEEN PREPARED AND COMMUNICATED TO ALL SITE PERSONNEL.
 6. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL SERVICES ON THE SITE PRIOR TO COMMENCING THE WORKS AND VERIFY THEIR STATUS. THE CONTRACTOR IS TO LIAISE WITH THE RELEVANT STATUTORY UNDERTAKERS.
 7. THE CONTRACTOR IS TO REFER TO THE RELEVANT DEMOLITION / REFURBISHMENT ASBESTOS SURVEY REPORT FOR THE IDENTIFICATION AND LOCATION OF ALL ASBESTOS CONTAINING MATERIALS AND TO CARRY OUT REMOVAL OF ALL ASBESTOS CONTAINING MATERIALS IN ACCORDANCE WITH THE SPECIFICATION AND CURRENT LEGISLATION PRIOR TO THE DEMOLITION WORKS COMMENCING.
 8. THE CONTRACTOR IS TO REFER TO THE HAZARDOUS MATERIALS INFORMATION IN THE SPECIFICATION AND IS TO REMOVE AND DISPOSE OF ALL HAZARDOUS MATERIALS IN ACCORDANCE WITH THE SPECIFICATION AND CURRENT LEGISLATION PRIOR TO THE DEMOLITION WORKS COMMENCING.
 9. CONTRACTOR TO ENSURE THE SITE IS SET UP WITH CLEAN AND DIRTY AREAS AND A DECONTAMINATION UNIT / SHOWERS ARE PRESENT ON SITE FOR THE DURATION OF THE WORKS.
 10. AN ASSESSMENT OF THE CONSTRUCTION AND STATUS/CAPACITY OF THE GASHOLDER DRAINAGE ROUTES WHICH ARE TO BE USED FOR DEWATERING MUST BE SURVEYED USING CCTV METHODS TO DETERMINE THE STATUS AND EXTENT OF ANY DAMAGE ETC, BOTH PRIOR TO THE COMMENCEMENT OF DEWATERING AND UPON COMPLETION OF THE WORKS.
 11. CONTRACTOR TO LIAISE WITH CGL TO CONFIRM EXTENT OF CGL PLANT PROTECTION REQUIREMENTS.
 12. CONTRACTOR IS TO SATISFY CGL PLANT PROTECTION THAT WORKS WILL NOT AFFECT ANY LIVE EQUIPMENT WITHIN THE SITE.
 13. CONTRACTOR TO BE RESPONSIBLE FOR SECURITY OF THE SITE AT ALL TIMES.
 14. CONTRACTOR TO MAINTAIN 24/7 ACCESS TO CGL ASSETS FOR THE DURATION OF THE WORKS, INCLUDING OUT OF HOURS.
 15. CONTRACTOR TO REFER TO ECOLOGICAL IMPACT ASSESSMENT (2022) FOR ECOLOGY CONSTRAINTS.
 16. CONTRACTOR TO NOTE THAT LIFTING OR OTHER OPERATIONS ABOVE ANY LIVE PLANT WILL NOT BE PERMITTED.

- NOTES CONTINUED:**
17. ALL FENCING TO BE PROTECTED DURING THE WORKS. FENCING TO BE INSPECTED FOR DAMAGE PRIOR TO WORK COMMENCING AND DAMAGE REPAIRED IF REQUIRED.
 18. ALL REDUNDANT PIPE WORK TO BE CAPPED OFF AT GROUND LEVEL AND BACKFILLED IN ACCORDANCE WITH THE SPECIFICATION.
 19. ALL IDENTIFIED STRUCTURES / BUILDINGS AND CONTENTS TO BE DEMOLISHED DOWN TO GROUND LEVEL AND REMOVED FROM SITE.
 20. ALL IDENTIFIED ABOVE GROUND PIPE WORK, VALVES AND SUPPORTS TO BE REMOVED.
 21. EXISTING 'LIVE' SERVICES TO BE PROTECTED FROM DAMAGE DURING THE WORKS.

DO NOT SCALE

KEY:

- NATIONAL GRID PROPERTY SITE OWNERSHIP BOUDNARY (CONTRACTOR TAKEOVER FROM BNP-PRE)
- CADENT GAS SITE BOUNDARY
- SHARED ACCESS WITH CGL
- BOREHOLE TO BE PROTECTED DURING THE WORKS
- STRUCTURES TO BE DEMOLISHED

SERVICES:

SERVICES INDICATIVELY OVERLAIN FROM PLANS OBTAINED JULY 2022

- LOW VOLTAGE ELECTRICITY CABLE
- LOW VOLTAGE ELECTRICITY CABLE (ABANDONED)
- HIGH VOLTAGE ELECTRICITY CABLE
- HIGH VOLTAGE ELECTRICITY CABLE (ABANDONED)
- TELECOMMUNICATION CABLE OVERHEAD
- TELECOMMUNICATION CABLE
- TELECOMMUNICATION CABLE (INSTALCOM RAIL CABLE, EUNETWORKS FIBER UK LIMITED LONGHAUL DUCT)
- NETWORK RAIL DC ASSET LINE
- HIGHWAYS GM UTC, NOT SPECIFIED
- CADENT GAS LOW PRESSURE GAS MAIN
- CADENT GAS MEDIUM PRESSURE GAS MAIN
- CADENT GAS LOCAL-HIGH PRESSURE
- CADENT GAS INTERMEDIATE PRESSURE GAS MAIN
- UNITED UTILITIES - WATER TRUNK MAIN PIPELINE
- UNITED UTILITIES - WATER ABANDONED
- UNITED UTILITIES - WATER DISTRIBUTION MAIN PIPELINE
- UNITED UTILITIES - SURFACE SEWAGE
- UNITED UTILITIES - COMBINED SEWER
- MANCHESTER CITY COUNCIL CABLE

P01	27/07/22	FOR INFORMATION	MF	NS	RG
Rev.	Date	Description	By	Chk'd	App'd

Drawing Status: **FOR INFORMATION** Suitability: **S2**

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Glasgow
G1 4RU
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Client: **NATIONAL GRID PROPERTY HOLDINGS**

Project Title: **NGPH BRADFORD ROAD DEMOLITION AND INFILLING**

Drawing Title: **FIGURE 5 DEMOLITION PLAN**

Scale	Designed	Drawn	Checked	Authorised
1:1,250	NS	MF	NS	RG
Original Size	Date	Date	Date	Date
A3	21/07/2022	22/07/2022	22/07/2022	27/07/2022
Drawing Number	FIGURE 5			Revision
				P01

CLASSIFICATION - Baseline (Low Risk)

100
Millimetres
10
0

CLASSIFICATION - Baseline (Low Risk)

NOTES:

1. DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT CONTRACT DRAWINGS AND SPECIFICATION.
2. ANY DISCREPANCIES ON THIS DRAWING NOTED BY THE CONTRACTOR SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT MANAGER PRIOR TO COMMENCEMENT OF WORKS ON-SITE.
3. ANY SURVEY INFORMATION USED IN THE PREPARATION OF THE DRAWING IS NOT WARRANTED. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THIS SURVEY INFORMATION PROVIDED.
4. THE CONTRACTOR IS REQUIRED TO ADMINISTER ALL ASPECTS OF THE SITES HEALTH AND SAFETY DURING POSSESSION IN ACCORDANCE WITH ALL CURRENT CODES OF PRACTICE AND LEGISLATION GOVERNING HEALTH AND SAFETY AND TO COMPLY WITH ALL CDM REGULATIONS.
5. NO DEMOLITION WORKS ARE TO TAKE PLACE UNTIL WRITTEN METHOD STATEMENT / DEMOLITION PLAN HAS BEEN PREPARED AND COMMUNICATED WITH ALL SITE PERSONNEL.
6. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL SERVICES ON THE SITE PRIOR TO COMMENCING THE WORKS AND VERIFY THEIR STATUS. THE CONTRACTOR IS TO LIAISE WITH THE RELEVANT STATUTORY UNDERTAKERS.
7. CONTRACTOR TO LIAISE WITH CGL TO CONFIRM PLANT PROTECTION REQUIREMENTS.
8. CONTRACTOR TO REFER TO ECOLOGICAL IMPACT ASSESSMENT (2022) FOR ECOLOGICAL CONSTRAINTS.
9. ALL FENCING TO BE INSPECTED PRIOR TO WORKS FOR NOTABLE DAMAGE, PROTECTION CURING WORKS AND REPAIRED AS NECESSARY IF DAMAGED UPON COMPLETION OF THE WORKS.
10. RELEVANT AND PROXIMAL EXITING LIVE SERVICES ARE TO BE PROTECTED FROM DAMAGE DURING THE WORKS.

DO NOT SCALE



NOTES:

1. DO NOT SCALE FROM THIS FIGURE.
2. THIS DRAWING IS TO BE READ IN FULL COLOUR.
3. SERVICES DATA PROVIDED IS BASED ON 3RD PARTY INFORMATION FROM THE SERVICE PROVIDERS AND HISTORICAL REPORTS (WYG, 2017). FURTHER UNRECORDED SERVICES MAY EXIST AT THE SITE AND THE ACTUAL LOCATIONS OF SERVICES MAY DIFFER FROM THOSE SHOWN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY AND LOCATE ALL SERVICES PRIOR TO THE COMMENCEMENT OF THE WORKS.
4. ALL SERVICES ARE SHOWN INDICATIVELY.
5. THE CONTRACTOR SHALL ASSUME AS A MINIMUM THAT ROAD PLATES ARE REQUIRED FOR BELOW GROUND LIVE GAS MAINS.

KEY:

- NATIONAL GRID PROPERTY SITE OWNERSHIP BOUNDARY (CONTRACTOR TAKEOVER FROM BNP-PRE)
- CADENT GAS SITE BOUNDARY
- BOREHOLE TO BE PROTECTED DURING THE WORKS
- SERVICE PROTECTION REQUIRED
- EXCLUSION ZONE

SERVICES: SERVICES INDICATIVELY OVERLAIN FROM PLANS OBTAINED JULY 2022

- TELECOMMUNICATION CABLE OVERHEAD
- TELECOMMUNICATION CABLE
- TELECOMMUNICATION CABLE (INSTALCOM RAIL CABLE, EUNETWORKS FIBER UK LIMITED LONGHAUL DUCT)
- CADENT GAS LOW PRESSURE GAS MAIN
- CADENT GAS MEDIUM PRESSURE GAS MAIN
- CADENT GAS LOCAL-HIGH PRESSURE
- CADENT GAS INTERMEDIATE PRESSURE GAS MAIN
- UNITED UTILITIES - WATER TRUNK MAIN PIPELINE
- UNITED UTILITIES - WATER ABANDONED
- UNITED UTILITIES - WATER DISTRIBUTION MAIN PIPELINE
- UNITED UTILITIES - SURFACE SEWAGE
- UNITED UTILITIES - COMBINED SEWER

P01	22/07/22	FOR INFORMATION	MF	NS	RG
Rev.	Date	Description	By	Chk'd	App'd

Drawing Status	FOR INFORMATION	Suitability	S2
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NATIONAL GRID PROPERTY HOLDINGS

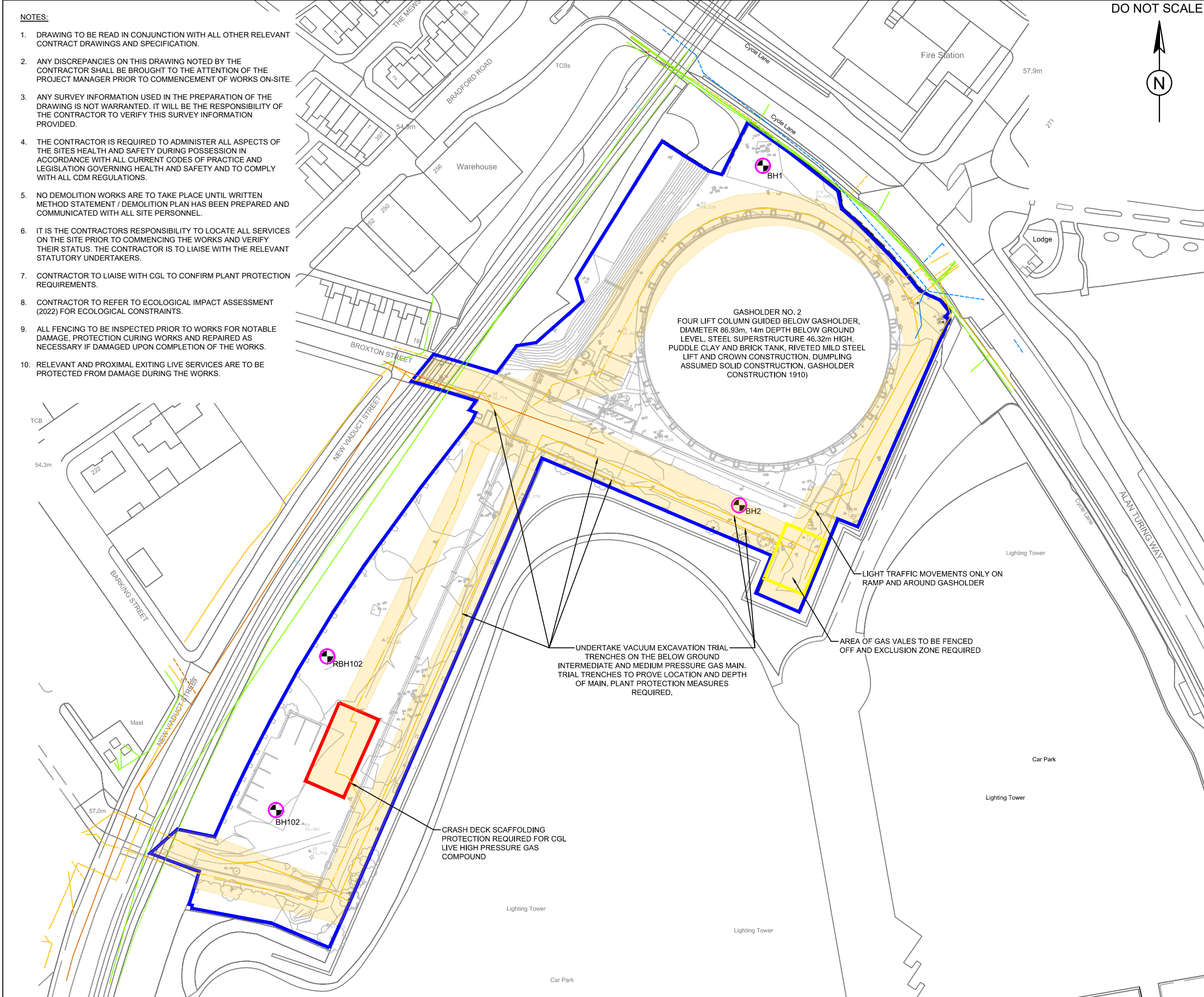
Project Title
NGPH BRADFORD ROAD
DEMOLITION AND INFILLING

Drawing Title
FIGURE 6
PLANT PROTECTION REQUIREMENTS

Scale	Designed	Drawn	Checked	Authorised
1:1,250	NS	MF	NS	RG
Original Size	Date	Date	Date	Date
A3	21/07/2022	22/07/2022	22/07/2022	27/07/2022

Drawing Number	Revision
FIGURE 6	P01

CLASSIFICATION - Baseline (Low Risk)



USER: F0317348 Date: 27/07/2022 10:23:49
Filename: P:\GEM\B\G\00079_21_072022\00079 NGPH Item Contract\Bradford Road (0049).DWG
Drawing's PM: Drawing's Figure 6 - Plant Protection Plan.dwg
Internal Project Number:

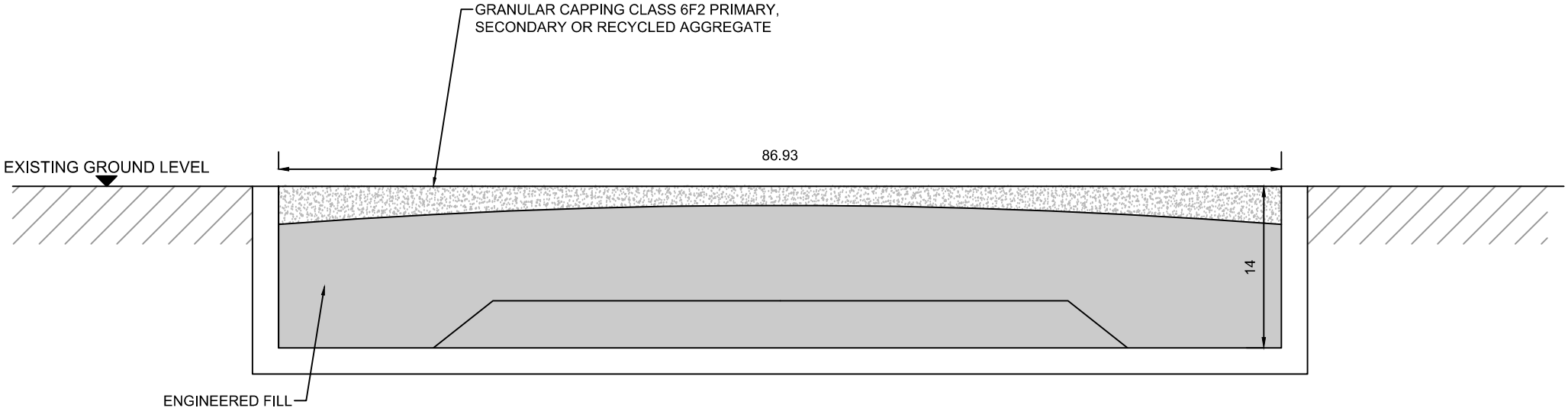
100
Millimetres
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CLASSIFICATION - Baseline (Low Risk)

DO NOT SCALE

KEY:

- NATIONAL GRID PROPERTY SITE OWNERSHIP BOUDNARY (CONTRACTOR TAKEOVER FROM BNP-PRE)
- CADENT GAS SITE BOUNDARY
-  BOREHOLE TO BE PROTECTED DURING THE WORKS
- STRUCTURES TO BE INFILLED

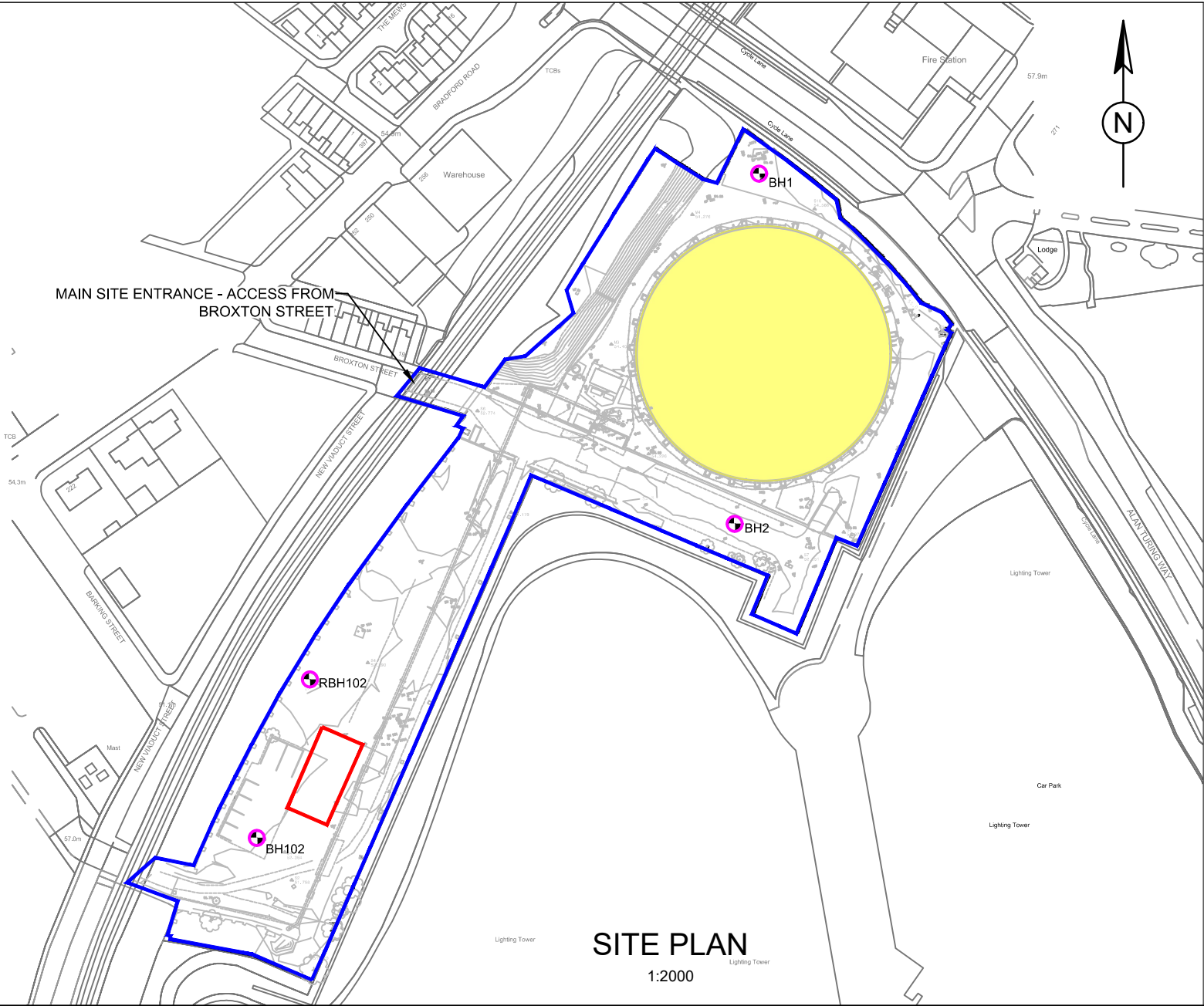


TYPICAL PROPOSED SECTION

NTS

NOTES:

- DO NOT SCALE.
- DRAWINGS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT CONTRACT DRAWINGS AND SPECIFICATION.
- ANY DISCREPANCIES ON THIS DRAWING NOTED BY THE CONTRACTOR SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT MANAGER PRIOR TO COMMENCEMENT OF WORKS ON-SITE.
- ANY SURVEY INFORMATION USED IN THE PREPARATION OF THE DRAWING IS NOT WARRANTED. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THIS SURVEY INFORMATION PROVIDED.
- THE CONTRACTOR IS REQUIRED TO ADMINISTER ALL ASPECTS OF THE SITES HEALTH AND SAFETY DURING HIS POSSESSION IN ACCORDANCE WITH ALL CURRENT CODES OF PRACTICE AND LEGISLATION GOVERNING HEALTH AND SAFETY AND TO COMPLY WITH ALL CDM REGULATIONS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL SERVICES ON THE SITE PRIOR TO COMMENCING THE WORKS AND VERIFY THEIR STATUS. THE CONTRACTOR IS TO LIAISE WITH THE RELEVANT STATUTORY UNDERTAKERS.
- THE CONTRACTOR IS TO REFER TO THE HAZARDOUS MATERIALS INFORMATION IN THE SPECIFICATION AND IS TO REMOVE AND DISPOSE OF ALL HAZARDOUS MATERIALS IN ACCORDANCE WITH THE SPECIFICATION AND CURRENT LEGISLATION PRIOR TO THE DEMOLITION WORKS COMMENCING.
- CONTRACTOR TO ENSURE THE SITE IS SET UP WITH CLEAN AND DIRTY AREAS AND A DECONTAMINATION UNIT / SHOWERS ARE PRESENT ON SITE FOR THE DURATION OF THE WORKS.
- CONTRACTOR TO LIAISE WITH CADENT GAS TO CONFIRM EXTENT OF CADENT GAS PLANT PROTECTION REQUIREMENTS.
- CONTRACTOR IS TO SATISFY CADENT GAS PLANT PROTECTION THAT WORKS WILL NOT AFFECT ANY LIVE EQUIPMENT WITHIN THE SITE.
- CONTRACTOR TO BE RESPONSIBLE FOR SECURITY OF THE SITE AT ALL TIMES.
- CONTRACTOR TO MAINTAIN 24/7 ACCESS TO CGL FOR THE DURATION OF THE WORKS, INCLUDING OUT OF HOURS.
- CONTRACTOR TO ENSURE SUITABLE EDGE PROTECTION IS IN PLACE AROUND THE GASHOLDERS DURING INFILLING WORKS.
- CONTRACTOR TO REFER TO ECOLOGICAL IMPACT ASSESSMENT (2019) FOR ECOLOGY CONSTRAINTS.
- CONTRACTOR TO LIAISE WITH CADENT GAS OVER ANY ACCESS REQUIREMENTS TO LIVE OVERHEAD GAS MAINS AND COMPOUNDS.
- CONTRACTOR TO NOTE THAT LIFTING OR OTHER OPERATIONS ABOVE ANY LIVE PLANT WILL NOT BE PERMITTED.
- ALL PALISADE FENCING TO BE PROTECTED DURING THE WORKS. FENCING TO BE INSPECTED FOR DAMAGE PRIOR TO WORK COMMENCING AND DAMAGE REPAIRED IF REQUIRED.
- MATERIAL USED FOR BACKFILL SHALL MEET THE REQUIREMENTS OF NGPH DEMOLITION OF STRUCTURES: CORE SPECIFICATION 2020 (AND SUBSEQUENT AMENDMENTS). THE BACKFILL MATERIAL SHALL BE FREE FROM ASBESTOS FIBRES ("NO ASBESTOS DETECTED"). GEOTECHNICAL TESTING REQUIMENTS SHALL BE AS PER THENGPH DEMOLITION OF STRUCTURES: CORE SPECIFICATION 2020 (AND SUBSEQUENT AMENDMENTS). THE FREQUENCY OF IMPORTED MATERIAL TESTING SHALL BE A MINIMUM OF 1 PER 500M3 AND AT LEAST THREE SAMPLES PER SOURCE.
- MATERIAL USED FOR BACKFILL SHALL BE APPROVED BY THE SUPERVISOR AND LOCAL PLANNING AUTHORITY PRIOR TO BEING BROUGHT TO SITE.
- GASHOLDER WALLS AND TANK BASE TO REMAIN INTACT.
- ALL REDUNDANT PIPE WORK TO BE CAPPED OFF AT GROUND LEVEL AND BACKFILLED IN ACCORDANCE WITH THE NGPH DEMOLITION OF STRUCTURES: CORE SPECIFICATION 2020 (AND SUBSEQUENT AMENDMENTS).
- EXISTING 'LIVE' SERVICES TO BE PROTECTED FROM DAMAGE DURING THE WORKS.



P01	27/07/22	FOR INFORMATION		MF	NS	RG
Rev	Date	Description		By	Chk'd	App'd
Drawing Status				Suitability		
FOR INFORMATION				S2		
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Client						
NATIONAL GRID PROPERTY HOLDINGS						
Project Title						
NGPH BRADFORD ROAD DEMOLITION AND INFILLING						
Drawing Title						
FIGURE 7 INFILLING PLAN						
Scale	Designed	Drawn	Checked	Authorised		
AS SHOWN	NS	MF	NS	RG		
Original Size	Date	Date	Date	Date		
A3	21/07/2022	22/07/2022	22/07/2022	27/07/2022		
Drawing Number				Revision		
FIGURE 7				P01		

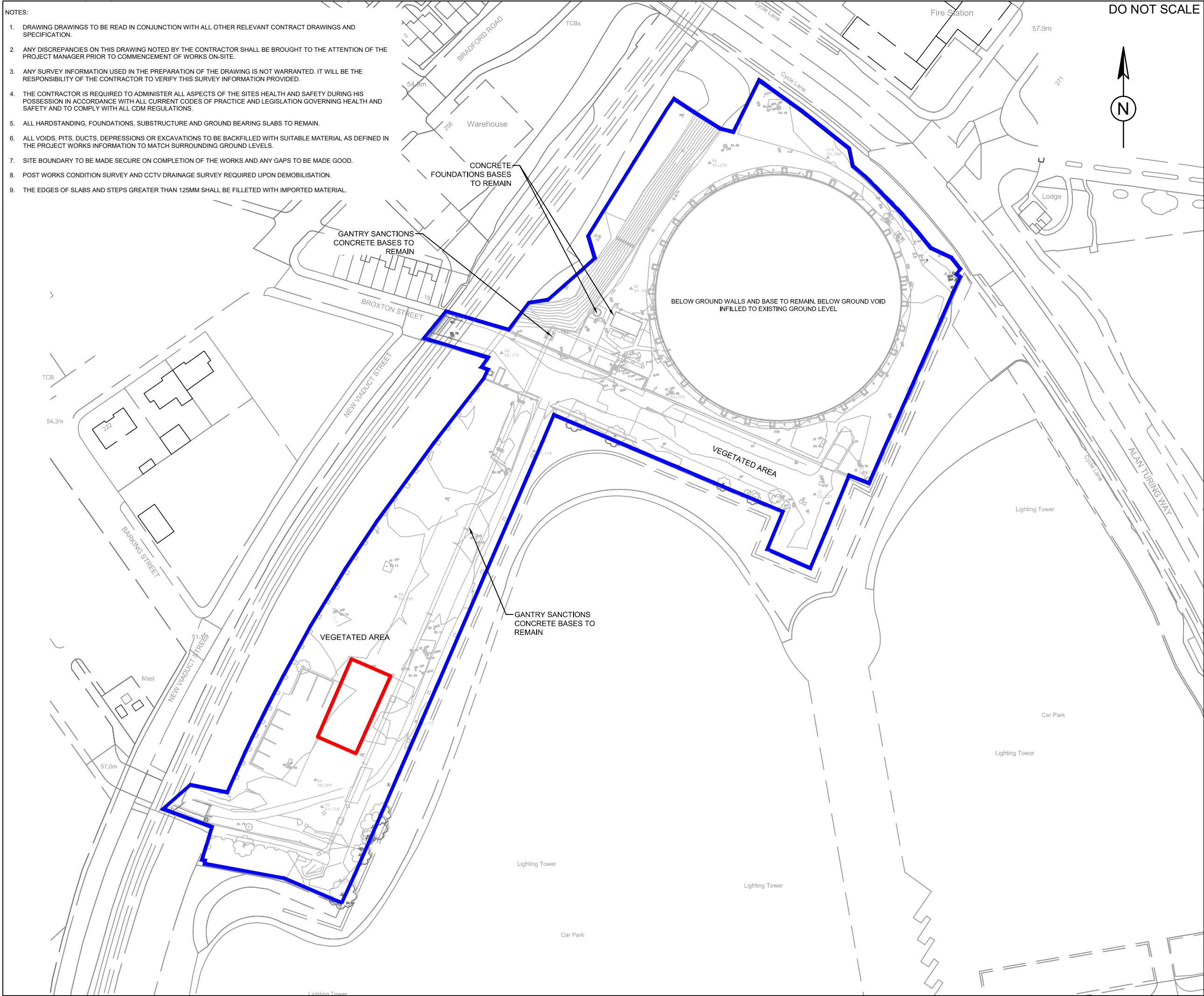
CLASSIFICATION - Baseline (Low Risk)

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Millimetres

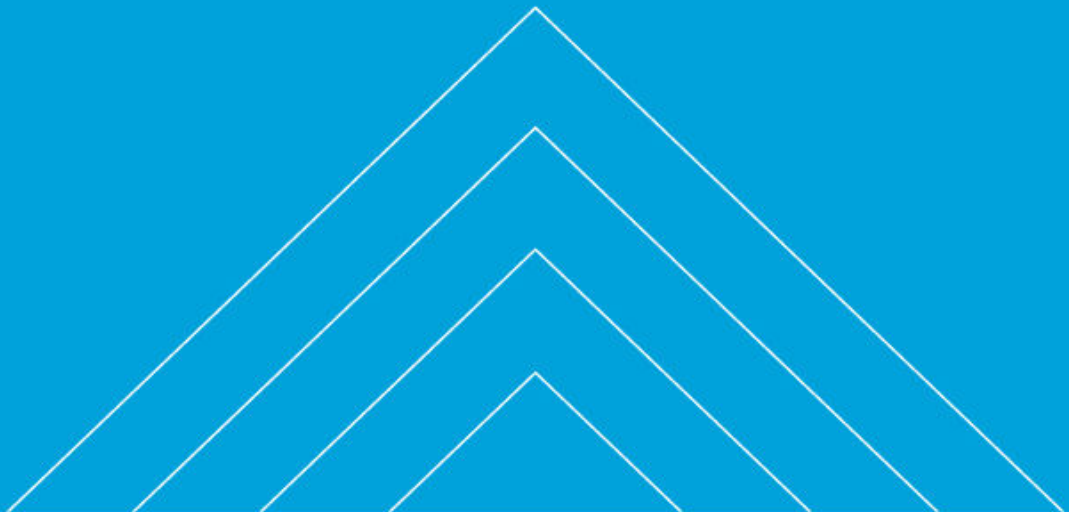
CLASSIFICATION - Baseline (Low Risk)

NOTES:

1. DRAWING DRAWINGS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT CONTRACT DRAWINGS AND SPECIFICATION.
2. ANY DISCREPANCIES ON THIS DRAWING NOTED BY THE CONTRACTOR SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT MANAGER PRIOR TO COMMENCEMENT OF WORKS ON-SITE.
3. ANY SURVEY INFORMATION USED IN THE PREPARATION OF THE DRAWING IS NOT WARRANTED. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THIS SURVEY INFORMATION PROVIDED.
4. THE CONTRACTOR IS REQUIRED TO ADMINISTER ALL ASPECTS OF THE SITES HEALTH AND SAFETY DURING HIS POSSESSION IN ACCORDANCE WITH ALL CURRENT CODES OF PRACTICE AND LEGISLATION GOVERNING HEALTH AND SAFETY AND TO COMPLY WITH ALL CDM REGULATIONS.
5. ALL HARDSTANDING, FOUNDATIONS, SUBSTRUCTURE AND GROUND BEARING SLABS TO REMAIN.
6. ALL VOIDS, PITS, DUCTS, DEPRESSIONS OR EXCAVATIONS TO BE BACKFILLED WITH SUITABLE MATERIAL AS DEFINED IN THE PROJECT WORKS INFORMATION TO MATCH SURROUNDING GROUND LEVELS.
7. SITE BOUNDARY TO BE MADE SECURE ON COMPLETION OF THE WORKS AND ANY GAPS TO BE MADE GOOD.
8. POST WORKS CONDITION SURVEY AND CCTV DRAINAGE SURVEY REQUIRED UPON DEMOBILISATION.
9. THE EDGES OF SLABS AND STEPS GREATER THAN 125MM SHALL BE FILLETED WITH IMPORTED MATERIAL.



Appendices



Appendix A. Decision Notice



Planning

Sue Wills
Telephone: 0161 234 4524
sue.wills@manchester.gov.uk

P O Box 532 Town Hall
Manchester M60 2LA

Mr Matthew Stocks
WSP
First Floor
3 Wellington Place
Leeds
LS1 4AP

Date: 30 August 2022

Dear Sir/Madam,

**Town & Country Planning (General Permitted Development Order) (England) 2015
(as amended) Schedule 2, Part 11**

Application No: 134295/DEM/2022

Proposal: Prior Approval for the demolition of gasholder and associated buildings and infrastructure, and associated restoration of site

Location: Gas Holder , Alan Turing Way, Manchester, M40 2XG

I write with reference to the above notification and advise you that prior approval to undertake the demolition is **not required**.

The City Council is satisfied that the demolition works in this case will not have a significant impact on the environment. This decision is based on:

No work approved by this planning permission shall commence until a strategy to deal with the risks associated with contamination associated with the site and the gas holder, has been submitted to, and approved in writing by the City Council as local planning authority. This strategy will include the following components:

1. A sufficient and appropriate site investigation scheme, to provide information for a detailed assessment of the risk to all receptors that may be affected, including those offsite.
2. The development of an appropriate infilling methodology, materials management plan and necessary remediation strategy, based on the results of the investigation and assessment work in (1), demolish the gasholder and associated buildings and infrastructure, and associated restoration of site.
3. A verification plan providing details of the data that will be collected in order to demonstrate that the works set out in the remediation strategy in (2) are complete and identifying any requirements for longer-term monitoring of pollutant linkages, maintenance and arrangements for contingency action.

Any changes to these components require the written consent of the local planning authority. The scheme shall be implemented as approved.

Reason - To ensure that the proposed demolition of gasholder and associated buildings and infrastructure, and associated restoration of site, does not contribute to, and is not put at unacceptable risk from or adversely affected by, unacceptable levels of water pollution in line with paragraph 170 of the National Planning Policy Framework, pursuant to policies

EN17 and EN18 of the Manchester Core Strategy (2012).

The City Council is satisfied that the demolition works in this case are satisfactory and will not have a significant impact on the environment. This decision is based on the following documents, stamped as received on 7th and 19th July 2022 , and 3rd August 2022; Application for Prior Notification of Proposed Gasholder and Ancillary Infrastructure Demolition ref: 70095715 dated July 2022; Demolition Notice Statement; Outline Demolition Methodology July 2022; Outline Asbestos Management Plan dated May 2022; Asbestos Re-Inspection Survey ref; P-401550 dated 23rd August 2021; Preliminary Ecological Appraisal Report dated June 2022; Figure 1 rev.P01 Site Location plan; Figure 2 rev.P01 Site Layout plan and Structures to be demolished plan; and Figure 4 rev.P01 Final site conditions plan; Figure 5 rev.P01 Existing and Proposed Sections plan; Figure 3 rev.P01 Proposed works plan received 3rd August 2022; content of email from Planning Agent regarding access from Broxton Street dated 3rd August 2022, and on the basis of the conditions which are attached below.

Following the completion of the agreed works to demolish the gasholder and associated buildings and infrastructure, and associated restoration of site, a verification report demonstrating the completion of works set out in the approved remediation strategy shall be submitted to, and approved in writing, by the local planning authority. The report shall include results of any sampling and monitoring carried out in accordance with the approved verification plan to demonstrate that successful site remediation and restoration have been achieved.

Reason - To ensure that the proposed demolition of gasholder and associated buildings and infrastructure, and associated restoration of site on land, does not contribute to, and is not put at unacceptable risk from or adversely affected by, unacceptable levels of water pollution in line with paragraph 170 of the National Planning Policy Framework, pursuant to policies EN17 and EN18 of the Manchester Core Strategy (2012).

Prior to commencement of development a finalised Asbestos Management Plan shall be submitted to, and approved in writing by the City Council as local planning authority. The development shall be implemented in accordance with the approved details .

Reason - To ensure that the proposed demolition of gasholder and associated buildings and infrastructure, and associated restoration of site, does not contribute to, and is not put at unacceptable risk from or adversely affected by, unacceptable levels of contamination pursuant to policy EN18 of the Manchester Core Strategy (2012).

Prior to commencement of development a finalised Demolition Method Statement shall be submitted to, and approved in writing by the City Council as local planning authority. The development shall be implemented in accordance with the approved details .

Reason - To ensure that the proposed demolition of gasholder and associated buildings and infrastructure, and associated restoration of site, does not contribute to, and is not put at unacceptable risk from or adversely affected by, unacceptable levels of contamination pursuant to policy EN18 of the Manchester Core Strategy (2012).

No removal of or works to any hedgerows, trees or shrubs should take place between 1st March and 31st August inclusive, unless a competent ecologist has undertaken a careful, detailed check of vegetation for active birds' nests immediately before the vegetation is cleared and provided written confirmation that no birds will be harmed and/or that there are appropriate measures in place to protect nesting bird interest on site. Any such written confirmation should be submitted to the local planning authority.

Reason - In order to provide protection to nesting birds, pursuant to Policy EN15 of the Manchester Core Strategy (2012).

Prior to any above ground works a Traffic Management Plan shall be submitted to, and approved in writing by the City Council as local planning authority. The development shall be implemented in accordance with the approved details .

Reason - In the interests of highway safety, pursuant to policy T1 of the Manchester Core Strategy (2012).

Should you wish to discuss this matter any further please contact Sue Wills.

Yours faithfully,

A handwritten signature in black ink, appearing to read 'Julie Roscoe', with a stylized, cursive script.

Julie Roscoe
Director of Planning, Building Control & Licensing

Appendix B. Gasholder Tank Information

BRITISH GAS

COPY SENT TO AREA ON :

REGIONAL PLANT DEPT.

REPORT OF EXAMINATION OF GASHOLDER
WATER-SEALED TYPE — BASIC RECORD

NAME BRITISH GAS NORTH WESTERN EAST AREA
 LOCATION BRADFORD ROAD M10 7BL
 GASHOLDER No. 2 Date of inspection _____
 SITUATION _____
 HOLDER BUILT BY Ashmore Benson & Pease Ltd Date of completion 1910
 TANK BUILT BY E. Nuttall & Co Date of completion 1910
 LIFT ADDED BY _____ Date of completion _____
 TYPE (i.e. Column, Spiral or Rope Guided) Column Guided in Brick Tank
 CAPACITY (exclusive of Crown) 10,000,000 cu.ft. (283,170 cu.m.)
 CAPACITY OF CROWN 589,500 cu.ft. (16,693 cu.m.)

LIFTS	Top	Second	Third	Fourth	Fifth
Diameter	273'0"	276'0"	279'0"	282'0"	
Depth	42'0"	40'6"	40'6"	40'6"	
Pressure (in. w.g.)/(mbar)	4.5	6.5	8.5	10.5	
No. of Columns	32				

GUIDE FRAMING (General Description) 32 Latticed Columns linked together with 6 tier
latticed girders.

CROWN—RISE 20'0" { Number and Type of Manholes 7 Flat Covers
 Position and Number of Gas and Air Vents 1 6" & 1 10" Valves in centre plate

SHEETING THICKNESS { Crown: Outer Row _____ Other Rows _____
 Sides: Top Row $\frac{5}{8}$ " Intermediate Rows _____
 Bottom Row $\frac{1}{2}$ "

CUPS & GRIPS (Size and construction, with sketch) 11 $\frac{1}{2}$ " x $\frac{1}{2}$ " Pressed Cups & Grips

TOP CURB & CROWN FRAMING (Construction—See Sketch Sheet) Top curb 6" x 6" x $\frac{7}{8}$ " angle
Stationary steel crown framing - 32 6" x 5" x 25 lb RSJ main bars with
tie bars and bracing

TYPE OF LADDER Vertical with 6 rest platforms and backages

TANK { Diameter 285'0" Depth 44'6" Construction Brick
 Position in Relation to Ground Level: Top curb at ground level
 Rest Blocks: Not known Number: _____ Size: _____

MATERIAL USED FOR CONSTRUCTION OF { Gasholder Steel Rivetted
 Tank Brick and Puddle Clay

INLET & OUTLET CONNECTIONS { Size: 3'6" dia
 Position of Each: South West Together or separated: Together

TYPE OF SAFETY SEAL { On Inlet Connection: None Livesey Box
 On Outlet Connection: None Livesey Box

SIGNATURE _____ DATE _____

FORM No. 751/65

BRITISH ENGINE

BOILER & ELECTRICAL INSURANCE CO. LD

THE MANCHESTER STRAIN LINES ASSOCIATION
FOUNDED 1884

REPORT OF EXAMINATION OF GASHOLDER

(WATER-SEALED TYPES)

These Report Forms include all the information required on the standard Gasholder Record Sheets published by the Institution of Gas Engineers.

North Western Gas Board,
Manchester Group, Manchester Undertaking

CERTIFICATION NO.

2

PURPOSE

For Supply

SITUATION

Broadford Road, Chorley, Manchester

BUILT IN

1910

by

Holder

Chorley Gas Co. Ltd.

PUT TO WORK

1953

by

Tank

PUT TO WORK

1910

LIFT ADDED IN

TYPE (i.e. Column, Spiral or Rope Guided)

Column Guided in Rivet Tank

CAPACITY

Nominal

10,000,000 cu ft

Working (i.e. Calculated)

10,000,000 cu ft

LIFTS

Top

Second

Third

Fourth

Fifth

Diameter

273'-0"

276'-0"

279'-0"

282'-0"

Depth

42'-0"

40'-6"

40'-6"

40'-6"

Pressure (WG)

4 1/2"

6 1/2"

8 1/2"

10 1/2"

No. and Size of Spiral Guides or Ropes

5"

7 1/4"

7-4"

11-4"

Column Guided and Guide Framed Holders (No. and height of Columns and General Description of Framework).

32 Steel lattice columns, 169' 6" high x 8' 0" x 8' 0" at base.
6 steel lattice guides.
6 steel flat steel diagonal bracing. } R.F.C. for dimensions

CROWN Rise 20'-0"

No. and Type of Manholes 3 Flat covers 2 Lanyard Boxes

SHEETING THICKNESS

Crown: Outer Row 3/4"

Other Rows 8 150

Sides: Top Row 7/8"

Intermediate Rows 8 150

Bottom Row 1/2"

Other lifts 1/2" - 9 150 1/2"

CUPS AND GRIPS (Size and Construction, i.e. Pressed, Channel or Built-up)

11 1/2" x 1/2" Pressed Plate Cups

TOP CURB AND CROWN FRAMING (Construction, from Maker's Drawings)

6' x 6' 3/4" Flat mild steel
Stationary Framing 32-6' x 5' x 25 lb R.S.J. main beam 22-6' x 5' x 25 lb R.S.J. secondary beam
& supporting rafter 6' x 5' x 25 lb R.S.J. 8 Rows 4' x 3' 3/4" steel angle, parallel. No web, 1/2" thick.

TYPE OF LADDER

Steel ladder 3' x 1/2"

Flat plate with 3/4" dia. rungs [diagonals 2 1/2" x 25 lb R.S.J.]

TANK

Diameter 285'-0"

Depth 44'-6"

Construction

Rivet Tank

Position in relation to Ground Level

Top level at ground level

MATERIAL USED FOR CONSTRUCTION OF

Gasholder

Tank

Flat
Brick - Portland Clay

INLET AND OUTLET CONNECTIONS—Size

3'-6" dia.

Position: Small End,

Together or Separated Together at S.W.

BRITISH ENGINE, BOILER & ELECTRICAL INSURANCE COMPANY LIMITED,
24 FENNEL STREET, MANCHESTER 4.

THE INSTITUTION OF GAS ENGINEERS

GASHOLDER RECORD SHEET

(In conformity with Safety Recommendations
IGE/SR/4 Gasholders)

IGE GR/110

(quote this number
when ordering)

WATER-SEALED GASHOLDER RECORD

NAME OF UNDERTAKING BRITISH GAS NORTH WESTERN - EAST AREA
ADDRESS OF SITE BRADFORD ROAD MANCHESTER
GASHOLDER No. 2 GAS STORED NATURAL GAS
SITUATION ASHMOKE, BENSON, PEASE
HOLDER BUILT BY AND CO Date of completion 1910
TANK BUILT BY AS ABOVE Date of completion 1910
LIFT ADDED BY N. A. Date of completion _____
TYPE (i.e. Column, Spiral or Rope Guided) COLUMN GUIDED IN BRICK TANK
CAPACITY (exclusive of Crown) } 10,000,000 SCF.
CAPACITY OF CROWN } -

LIFTS	Top	Second	Third	Fourth	Fifth
Diameter	273' 0"	276' 0"	279' 0"	282' 0"	
Depth	43' 0"	40' 6"	40' 6"	40' 6"	
Pressure (in. w.g.)/(mbar)	4 1/2" w.g.	6 1/2" w.g.	8 1/2" w.g.	10 1/2" w.g.	
No. of Columns					
Spiral Guides or Ropes					

GUIDE FRAMING (General Description) 32 STEEL LATTICE COLUMNS 169' 6" HIGH X 8' 0" X 4' 0" AT BASE, 6 TIERS LATTICE GIRDERS (STEEL), 6 TIERS FLAT STEEL DIAGONAL BRACINGS

CROWN—RISE 20' 0" { Number and Type of Manholes 3 FLAT COVERS, 2 LIVESEY BOXES
Position and Number of Gas and Air Vents _____
Crown: Outer Row 3/4" Other Rows 8 ISWG
SHEETING THICKNESS { Sides: Top Row 5/8" Intermediate Rows 9 ISWG
Bottom Row 1/2"
CUPS & GRIPS (Size and construction, with sketch) 11 1/2" x 1/2" PRESSED PLATE CUPS

TOP CURB & CROWN FRAMING (Construction—See Sketch Sheet) 6" x 6" x 7/8" STEEL ANGLE CURB

STATIONARY FRAMING 32 - 6" x 5" x 25 lbs RST MAIN BARS.

32 6" x 5" x 25 lbs RST SECONDARY BARS

TYPE OF LADDER STEEL LADDER 3" x 5/8" FLAT SIDES 3/4" DIA RINGS

TANK { Diameter 285' 0" Depth 44' 6" Construction BRICK
Position in Relation to Ground Level: TOP CURB AT GROUND LEVEL
Rest Blocks: _____ Number: _____ Size: _____

MATERIAL USED FOR CONSTRUCTION OF { Gasholder STEEL
Tank BRICK AND PUDDLED CLAY

INLET & OUTLET CONNECTIONS { Size: _____
Position of Each: SOUTH WEST Together or separated: _____

TYPE OF SAFETY SEAL { On Inlet Connection: _____
On Outlet Connection: _____

SIGNATURE J. A. Jepson DATE AUGUST 1988

REPORT OF EXAMINATION OF GASHOLDER
WATER-SEALED TYPE — BASIC RECORD

CG 455 7/83

BRADFORD RD. HOLDER SITE – SURVEY No.2

Dumpling Profiling of Holder No. 2

Survey carried out w/c 28th April 2014

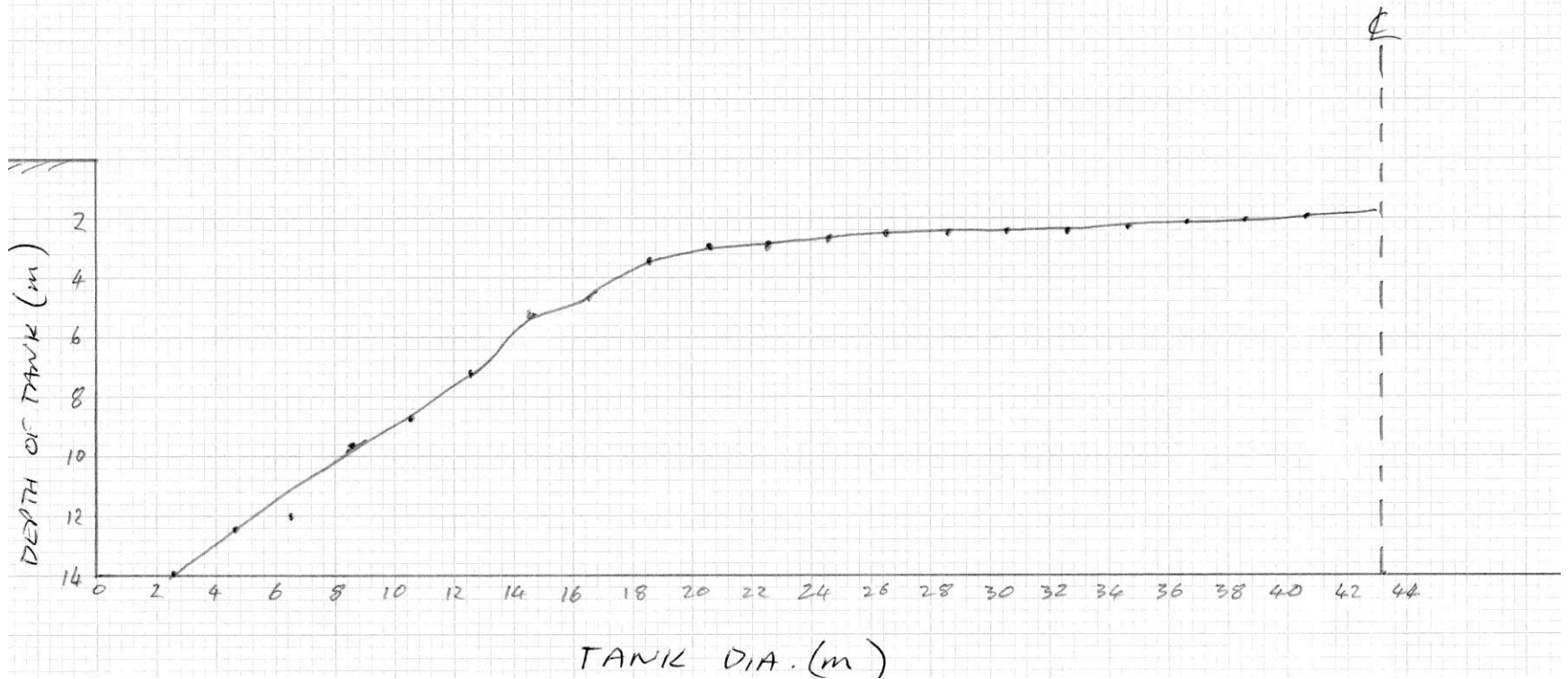
- The dumpling in Holder No. 2 is of a solid construction ie brick, stone, concrete.
- The crown support structure of Holder No. 2 is STEEL.
- Oil is present between the lifts and the outer annulus in Holder No.2.
- Included in the survey is an historical drawing indicating the dumpling which shows the same shape as the recent survey.
- The tank depth has been confirmed at 14m. The historical drawing indicates 13.6m which is only a discrepancy of 400mm.
- The dumpling volume & percentage, in relation to the overall holder tank volume, is as follows :-
- Holder No.2 - Dumpling Volume 37367m³ – 45.02% of Tank Volume.

BRADFORD RD. No. 2. (SURVEY No. 2)

VOL. OF DUMPLING = 37367 m^3

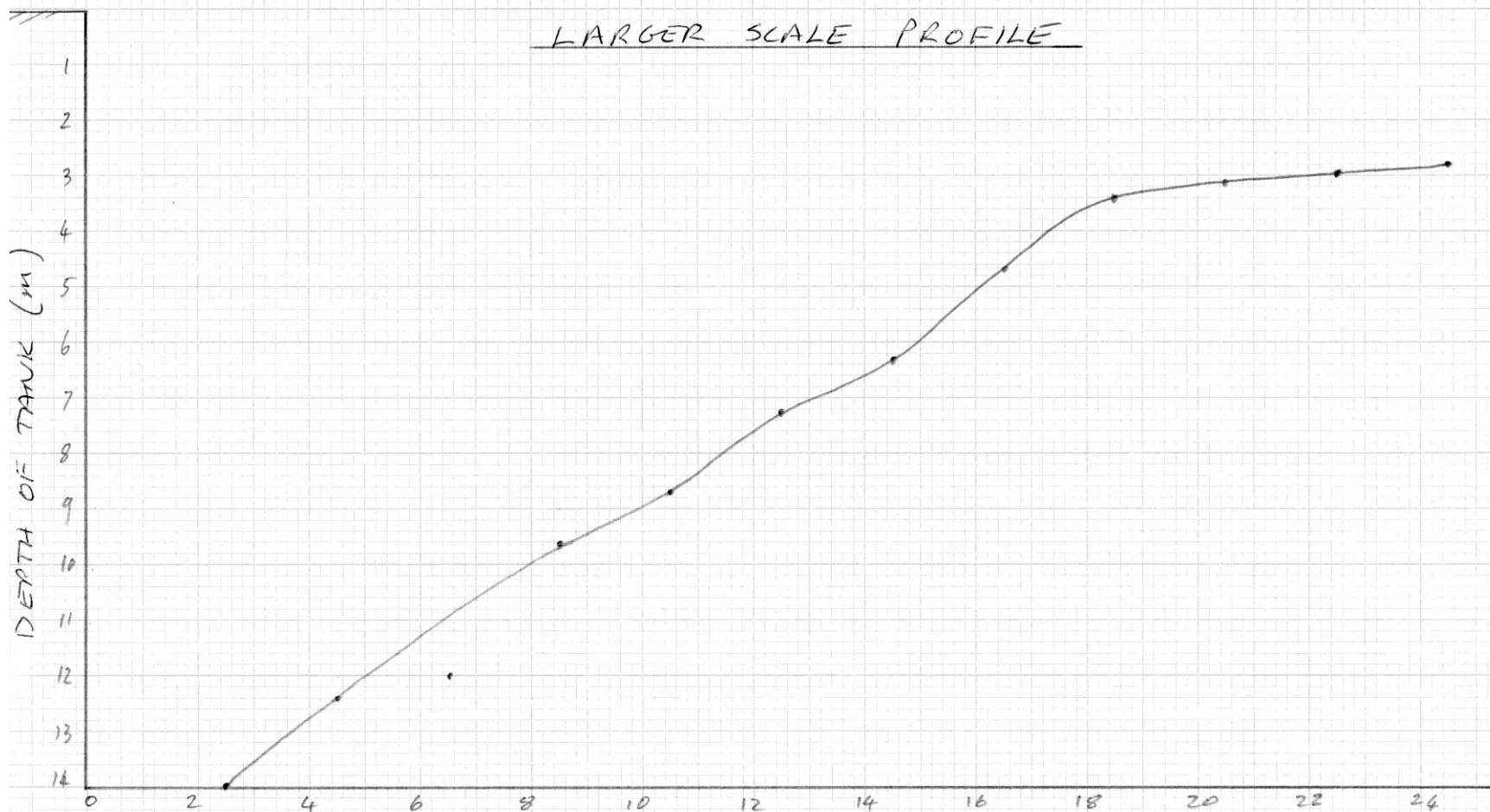
VOL. OF TANK = 83007 m^3

% OF DUMPLING IS 45.02%



BRADFORD RD. No. 2 (SURVEY No. 2)

LARGER SCALE PROFILE



TANK DIA. (m) [OVERALL TANK DIA. IS 86.87m].

M197

DRAWING NO.

MANCHESTER CORPORATION GAS WORKS

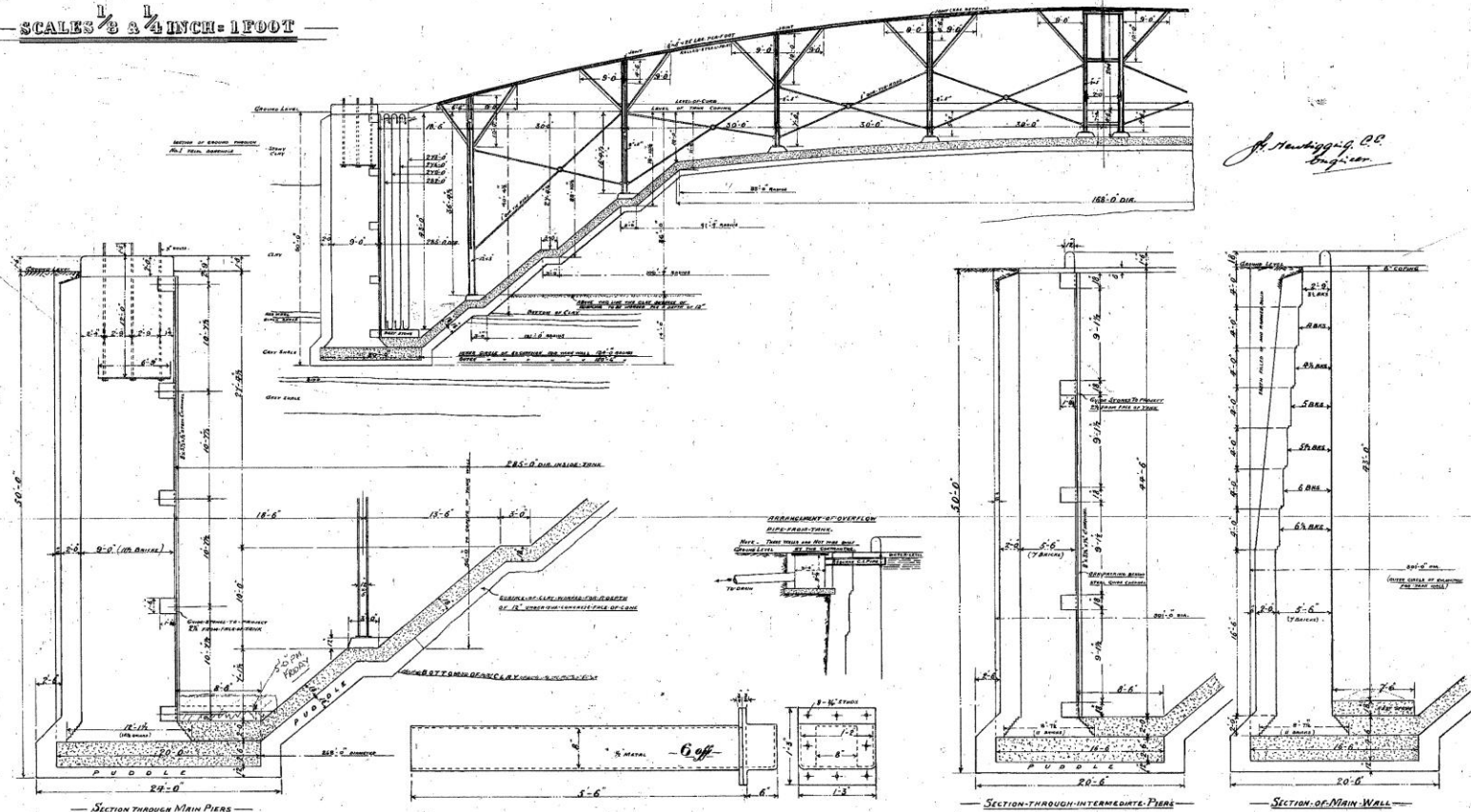
NO 2 HANDEL,

BRADFORD ROAD STATION

SECTIONAL ELEVATION OF GAS HOLDER TANK 285'-0" DIA X 44'-6" DEEP - DETAILS OF PIERS & WALL

1 1
SCALE 3/8" & 1/4" INCH = 1 FOOT

*J. H. Huggins, C.E.
Engineer*



MAC | BRO | ETT/44

B/2021

35

Gas Holder Dumping Survey Record Sheet

Holder Site: BRADFORD RD. Holder Number TWO

Measurement Points	Staff Reading	Extension Length	Total
Ground, Level With Tank Top (datum Point)	4.190 Mtr	3 Mtr	7.190 Mtr
Tank outer anulus	4.200 Mtr	17 Mtr	21.200 Mtr
Distance From Tank Wall			
2.5	4.200 Mtr	17 Mtr	21.200 Mtr
4.5	4.570 Mtr	15 Mtr	19.570 Mtr
6.5	4.200 Mtr	" Mtr	19.200 Mtr
8.5	3.760 Mtr	13 Mtr	16.760 Mtr
10.5	2.890 Mtr	" Mtr	15.890 Mtr
12.5	4.430 Mtr	10 Mtr	14.430 Mtr
14.5	2.530 Mtr	" Mtr	12.530 Mtr
16.5	1.880 Mtr	" Mtr	11.880 Mtr
18.5	1.550 Mtr	9 Mtr	10.550 Mtr
20.5	1.330 Mtr	" Mtr	10.330 Mtr
22.5	1.130 Mtr	" Mtr	10.130 Mtr
24.5	970 Mtr	" Mtr	9.970 Mtr
26.5	830 Mtr	" Mtr	9.830 Mtr
28.5	690 Mtr	" Mtr	9.690 Mtr
30.5	590 Mtr	" Mtr	9.590 Mtr
32.5	530 Mtr	" Mtr	9.530 Mtr
34.5	450 Mtr	" Mtr	9.450 Mtr
36.5	380 Mtr	" Mtr	9.380 Mtr
38.5	310 Mtr	" Mtr	9.310 Mtr
40.5	250 Mtr	" Mtr	9.250 Mtr
LAST HOLE TO CENTRE		Mtr	Mtr
3 MTRS		Mtr	Mtr
		Mtr	Mtr

Distance from tank wall to inner lift

1.800 MTR

Distance from tank top to water level

600mm

Survey team J. BUTTERWORTH. G. ROBERTS.

Date of survey 2/5/14

Gas Holder Dumping Survey Record Sheet

Holder Site: BRADFORD ROAD.	Holder Number TWO
-----------------------------	-------------------

Action		
Drill at 4 points and dip for presence of oil	Oil present ?	Yes/No
Drill to identify crown support material	Structure material type ?	Wood/Steel
Oil present in the tank outer anulus	Depth of oil ?	None/Skim/More

Further information/comments

OIL IN BETWEEN THE LIFTS ON THE OUTER ANULUS.

Appendix C. Geotechnical Classification

C.1. Table 1 – Classification and Compaction Requirements

Class	General Material Description	Typical Use	Permitted Constituents	Material Properties Required for Acceptability				Compaction Requirements in Clause E600
				Property	Defined and Tested in Accordance with:	Acceptable Limits		
						Lower	Upper	
1A	Well graded granular material	General Fill	Any material or combination of materials, other than material designated as chalk. Recycled aggregate.	(i) grading	BS1377: Part 2	Tab 2	Tab 2	Table 3 Method 2
				(ii) uniformity coefficient		10	-	
				(iii) moisture content	BS1377: Part 2	OMC -5%	OMC +5%	
				(iv) Contamination	Clause 3.4.		See Note 1 below	
1B	Uniformly graded granular material	General Fill	Any material or combination of materials, other than material designated as chalk. Recycled aggregate.	(i) grading	BS1377: Part 2	Tab 2	Tab 2	Table 3 Method 3
				(ii) uniformity coefficient		-	10	
				(iii) moisture content	BS1377: Part 2	OMC -5%	OMC +5%	
				(iv) Contamination	Clause 2.4.		See Note 1 below	
2A	Wet cohesive material	General Fill	Any material, or combination of materials, other than material designated as Chalk.	(i) grading	BS1377: Part 2	Tab 2	Tab 2	Table 3 Method 1 except for materials with liquid limit greater than 50% determined by BS1377: Part 2 only deadweight tamping or grid rollers shall be used.
				(ii) plastic limit (PL)	BS1377: Part 2	-	-	
				(iii) moisture content	BS1377: Part 2	PL – 4%		
				(iv) CBR or undrained shear strength of remoulded material	BS1377: Part 9	2 %		
				(v) Contamination	Clause 3.4.		See Note 1 below	
2B	Dry cohesive material	General Fill		(i) grading	BS1377: Part 2	Tab 2	Tab 2	Table 3 Method 2

Class	General Material Description	Typical Use	Permitted Constituents	Material Properties Required for Acceptability				Compaction Requirements in Clause E600
				Property	Defined and Tested in Accordance with:	Acceptable Limits		
						Lower	Upper	
			Any material, or combination of materials, other than material designated as Chalk.	(ii) CBR or undrained shear strength of remoulded material	BS1377: Part 9	2 %	-	
				(iii) moisture content	BS1377: Part 2	PL – 4%		
				(iv) Contamination	Clause 3.4.		See Note 1 below	
2C	Stony cohesive material	General Fill	Any material, or combination of materials, other than material designated as Chalk.	(i) grading	BS1377: Part 2	Tab 2	Tab 2	Table 3 Method 2
				(iv) CBR or undrained shear strength of remoulded material	BS1377: Part 9	2 %	-	
				(iii) Contamination	Clause 3.4.	-	See Note 1 below	
6A	Selected Well graded granular material	Below water	Natural gravel, natural sand, crushed gravel, crushed rock (other than argillaceous rock and chalk) crushed concrete, well burnt colliery spoil, or any combination thereof. Recycled aggregate.	(i) grading	BS1377: Part 2 or BS EN 933-2	Tab 2	Tab 2	No compaction
				(ii) uniformity coefficient	-	10	-	
				(iii) plasticity index	BS1377: Part 2	Non plastic		
				(iv) Contamination	Clause 3.4.		See Note 1 below	
6C	Selected uniformly graded granular material	Starter Layer	Natural gravel, natural sand, crushed gravel, crushed rock (other than argillaceous rock), crushed concrete, chalk, well burnt colliery spoil, slag or any combination thereof. Recycled aggregate.	(i) grading	BS1377: Part 2 or BS EN 933-2	Tab 2	Tab 2	Table 3 Method 3
				(ii) uniformity coefficient		-	10	
				(iii) plasticity index	BS1377: Part 2	Non-plastic		
				(iv) Los Angeles Coefficient	BS EN 1097-2	-	50	
				(v) Contamination	Clause 3.4	-	See Note 1 below	
				(ii) optimum moisture content	BS1377: Part 4, vibrating hammer method	-	-	

Class	General Material Description	Typical Use	Permitted Constituents	Material Properties Required for Acceptability				Compaction Requirements in Clause E600
				Property	Defined and Tested in Accordance with:	Acceptable Limits		
						Lower	Upper	
				(iii) moisture content	BS1377: Part 2	OMC -2%	OMC +2%	
				(iv) Plasticity index	BS 1377: Part 2	Non-plastic		
				(v) Los Angeles Coefficient	BS EN 1097-2	-	60	
				(vii) Contamination	Clause 2.4	-	See Note 1 below	
6F2	Selected granular material (coarse grading)	Capping	Any material, or combination of materials - including recycled aggregates with not more than 50% by mass of recycled bituminous planings and granulated asphalt, but excluding materials that contain tar and tar bitumen binders, unburnt colliery spoil and argillaceous rock. Property (i) in the next column shall not apply to chalk. Property (vi) in the next column shall not apply if the Class Ra (asphalt) content of any recycled aggregate is 20% or less.	(i) grading	BS1377: Part 2 or BS EN 933-2	Tab 2	Tab 2	Table 3 Method 6
				(ii) optimum moisture content	BS1377: Part 4, vibrating hammer method	-	-	
				(iii) moisture content	BS1377: Part 2	OMC -2%	OMC +2%	
				(vii) Class Ra (asphalt) content	BS EN 933-11	-	50%	
				(viii) bitumen content	BS EN 12697-1 or BS EN 12697-39	-	2.0%	
				(iv) Los Angeles Coefficient	BS EN 1097-2	-	60	
				(v) Contamination	Clause 3.4	-	See Note 1 below	
6F5	Selected well graded granular material	Fill to reinforced earth and anchored earth	Natural gravel, natural sand, crushed gravel, crushed rock other than argillaceous rock, crushed concrete, slag, chalk, well burnt colliery spoil or any combination thereof except that chalk shall not be combined with any other constituent (Properties i ii and v in next column shall not apply to chalk) (Properties viii, ix, x, xi, xii,	(i) Size designation and overall grading category	BS EN 13285 - 0/80 and G _E	Tab 5	Tab 5	Table 3 Method 6
				(ii) Maximum fines and oversize categories	BS EN 13285 - UF ₁₅ and OC ₇₅	Tab 5	Tab 5	
				(iii) Los Angeles coefficient	BS EN 13242 - LA ₅₀	-	50	
				(iv) Other aggregate requirements	BS EN 13242 – Category _{NR} (no requirement)	-	-	
				(v) Laboratory dry density and optimum water content	BS 13285 Clause 5.3 – Declared values.	-	-	

Class	General Material Description	Typical Use	Permitted Constituents	Material Properties Required for Acceptability				Compaction Requirements in Clause E600
				Property	Defined and Tested in Accordance with:	Acceptable Limits		
						Lower	Upper	
			xiii and xiv only apply when metallic reinforcing or anchor elements, facing units or fastening are used) Natural gravel, natural sand, crushed gravel, crushed rock other than argillaceous rock, crushed concrete, slag, chalk, well burnt colliery spoil or any combination thereof except that chalk shall not be combined with any other constituent (Properties i ii and v in next column shall not apply to chalk) (Properties viii, ix, x, xi, xii, xiii and xiv only apply when metallic reinforcing or anchor elements, facing units or fastening are used)	(vi) Water content	BS EN 1097-5	-	-	
				(vii) Class Ra (asphalt) content	BS EN 933-11	-	0%	
				(viii) Contamination	Clause 2.4	-	See Note 1 below	
7J	Selected wet cohesive material	Clay cut off walls / barrier layer	Selected clay	(i) grading	BS 1377 : Part 2	Tab 2	Tab 2	Table 3 Method 1
				(ii) moisture content	BS 1377 : Part 2	OMC* – 2%	OMC* + 2%	
				(ii) permeability	BS 1377 : Part 6	-	1 x 10 (-9) m/sec	
				(vii) liquid limit	BS 1377 : Part 2	-	90	
				(viii) plasticity index	BS 1377 : Part 2	-	65	
				(vi) optimum moisture content	BS 1377 : Part 4	-	-	
				(viii) contamination	Clause 3.4	-	Note 1 below	

Notes:

OMC optimum moisture content determined by BS 1377 (1990) Part 4 Method 3.5 or 3.6.

For Class 7J only, OMC shall be that at which permeability is least.

Where BS 1377 : Part 2 is specified for moisture content, this shall mean BS 1377 : Part 2 or BS 812 : Part 3 as appropriate.

Uniformity coefficient is defined as the ratio of the particle diameters D₆₀ to D₁₀ on the particle-size distribution curve, where:

D₆₀ = particle diameter at which 60% of the soil by weight is finer

D₁₀ = particle diameter at which 10% of the soil by weight is finer

Chalk shall only be used in free draining situations and not as fill within structures

If recycled bituminous planings are to be used, the chemical test suite shall include leachate testing to confirm the absence of tar and tar-bitumen binders

Atkins
Atkins Limited
3100 Century Way
Thorpe Park
Leeds
LS15 8ZB

Tel: +44 (0)113 306 6000
Fax: +44 (0)113 306 6001
rachael.graham@atkinsglobal.com