

Teddington Direct River Abstraction Statutory Consultation 2025



Map Book 2:
Tunnel Plans and Profile Drawings



Contents

Explanatory notes

Tunnel plans and profile drawings

• Overview of plans for indicative recycled water conveyance tunnel

• Indicative recycled water conveyance tunnel plan and profile drawings by section

• Indicative raw water conveyance pipeline (Burnell Avenue adit) plan and profile drawing

• Indicative raw water conveyance pipeline (Tudor Drive connection) plan and profile drawing

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Explanatory notes

This Map Book consists of plan and profile drawings of the proposed underground tunnels and pipelines that form part of the Teddington Direct River Abstraction Project (TDRA).

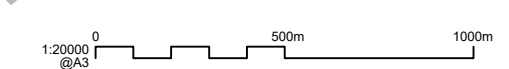
The plans show indicative alignments for the tunnels and pipelines within the draft Order limits. The profile drawings beneath the corresponding plans show an indicative illustration of the respective tunnel or pipeline in comparison to the ground level, and provide additional details such as:

- The chainage, which is the distance or length of the tunnel from its starting point
- The existing ground level
- The invert level, which is the bottom or 'floor level' inside the tunnel
- The gradient of the tunnel.

All the information presented is indicative, based on our current project design and assessment of its anticipated construction requirements. Project design and construction requirements may change in response to feedback received during consultation and ongoing design development. Updated plans will be submitted as part of the project's Development Consent Order application.

This document is part of a range of consultation materials which have been published as part of the TDRA statutory consultation. All of the consultation materials can be found on our website at www.thames-sro.co.uk/tdra/statcon2025.





Do not scale

Notes

1. The indicative alignment of the recycled water conveyance tunnel is subject to change as we undertake further refinement of both the Order limits and the tunnel route, through ongoing design and through consideration of responses to our statutory consultation process.

Notes

- | | |
|-----------|---|
| - - - - - | Indicative 3500mm I.D. Tunnel |
| — — — — — | Indicative 2200mm I.D. Pipejack |
| - - - - - | Indicative 3500mm I.D. SCL
Adit TLT Connection |

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Current Revision Information

The draft Order limits or above ground sites illustrated on this plan includes those areas in which land, or rights over or under land, are anticipated at this stage to potentially be required temporarily or permanently for the TDRA project.

C01	A	Authorised and accepted for consultation	BT	GB-R	AS	2025-05-13
Revision	Status	Subality Description	Authorised	Checked	Reviewed	Date



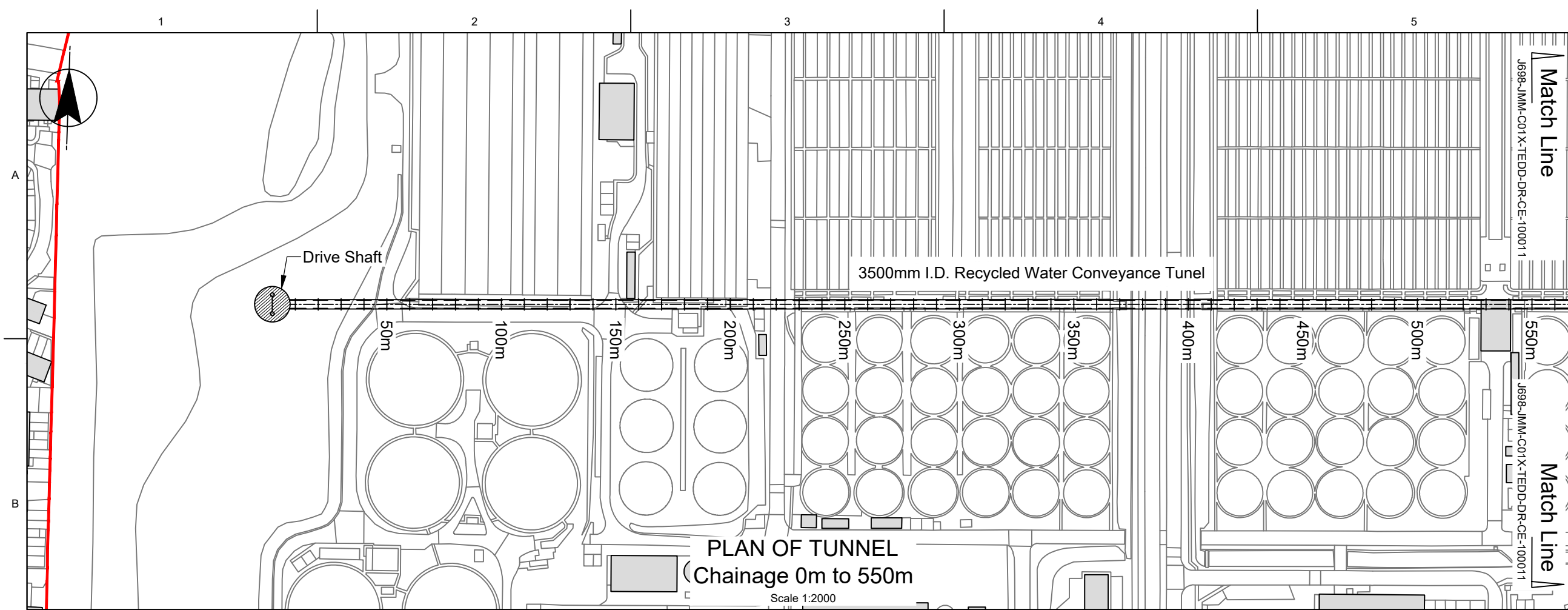
APFP References: N/A	Security Reference: Public
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Site Name:	N/A
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Project Name:
Teddington Direct River Abstraction

Drawing Title:
INDICATIVE TUNNEL PLAN AND PROFILE
ALIGNMENT OVERALL ROUTE

Scale:	As indicated	Sheet Size:	A3	Status:	A
Drawing Number:	J698-JMM-C01X-TEDD-DR-CE-100008			Revision:	C01



Do not scale

Location Map Scale: NTS

Legend

Indicative 3500mm I.D. Tunnel

Draft Order limits

Indicative Existing Ground Profile

Indicative Shaft Location

Notes

1.

The indicative alignment of the recycled water conveyance tunnel is subject to change as we undertake further refinement of both the Order limits and the tunnel route, through ongoing design and through consideration of responses to our statutory consultation process.

2.

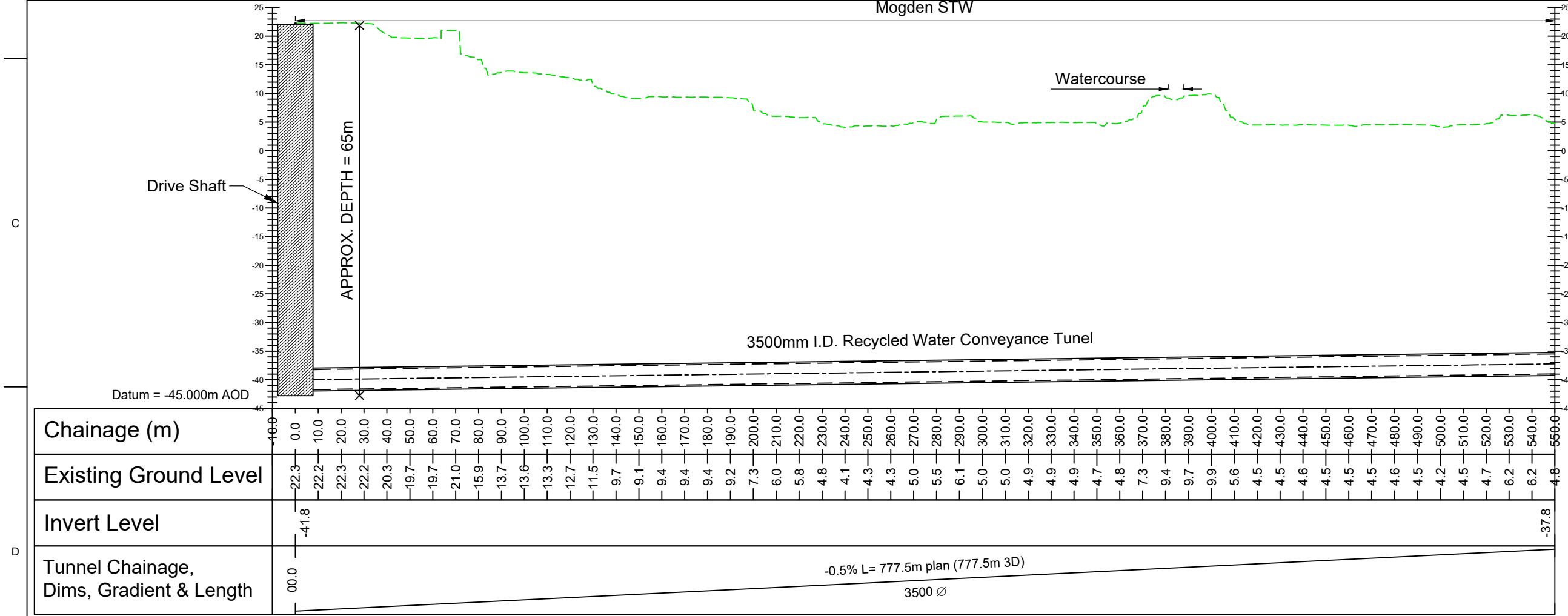
All levels are in metres above ordnance datum (mAOD). Topographical data based on National Lidar Programme DTM-2021-TQ17NE & TQ17SE 1m resolution.

3.

The vertical limit of deviation has not yet been defined and is not shown.

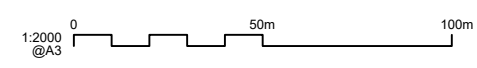
4.

Existing buildings are not shown on the profile for clarity.



Chainage (m)	0.0	10.0	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0	120.0	130.0	140.0	150.0	160.0	170.0	180.0	190.0	200.0	210.0	220.0	230.0	240.0	250.0	260.0	270.0	280.0	290.0	300.0	310.0	320.0	330.0	340.0	350.0	360.0	370.0	380.0	390.0	400.0	410.0	420.0	430.0	440.0	450.0	460.0	470.0	480.0	490.0	500.0	510.0	520.0	530.0	540.0	550.0		
Existing Ground Level	22.3	22.2	22.3	22.2	20.3	19.7	19.7	21.0	15.9	13.7	13.6	13.3	12.7	11.5	9.7	9.1	9.4	9.4	9.2	7.3	6.0	5.8	4.8	4.1	4.3	4.3	5.0	5.5	6.1	5.0	5.0	4.9	4.9	4.9	4.7	4.8	7.3	9.4	9.7	9.9	5.6	4.5	4.5	4.6	4.5	4.5	4.5	4.6	4.5	4.2	4.5	4.7	6.2	6.2	8.9			
Invert Level	-41.8																																																									
Tunnel Chainage, Dims, Gradient & Length	00.0	-0.5% L= 777.5m plan (777.5m 3D) 3500 Ø																																																								

PROFILE OF TUNNEL -10m to 550m
Scale H 1:2000, Scale V 1:800



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C01	A	Authorised and accepted for consultation	BT	GB-R	AS	2025-05-13
P01	S5	Statutory Consultation Map Book Deliverable	BT	GB-R	AS	2025-05-13
Revision	Author	Subsity Description	Authorised	Checked	Reviewed	Date

APFP References:
N/A

Security Reference:
Public

Site Name:
N/A

Project Name:
Teddington Direct River Abstraction

Drawing Title:
INDICATIVE TUNNEL PLAN AND PROFILE
ALIGNMENT
SHEET 1 OF 9

Scale:
As indicated

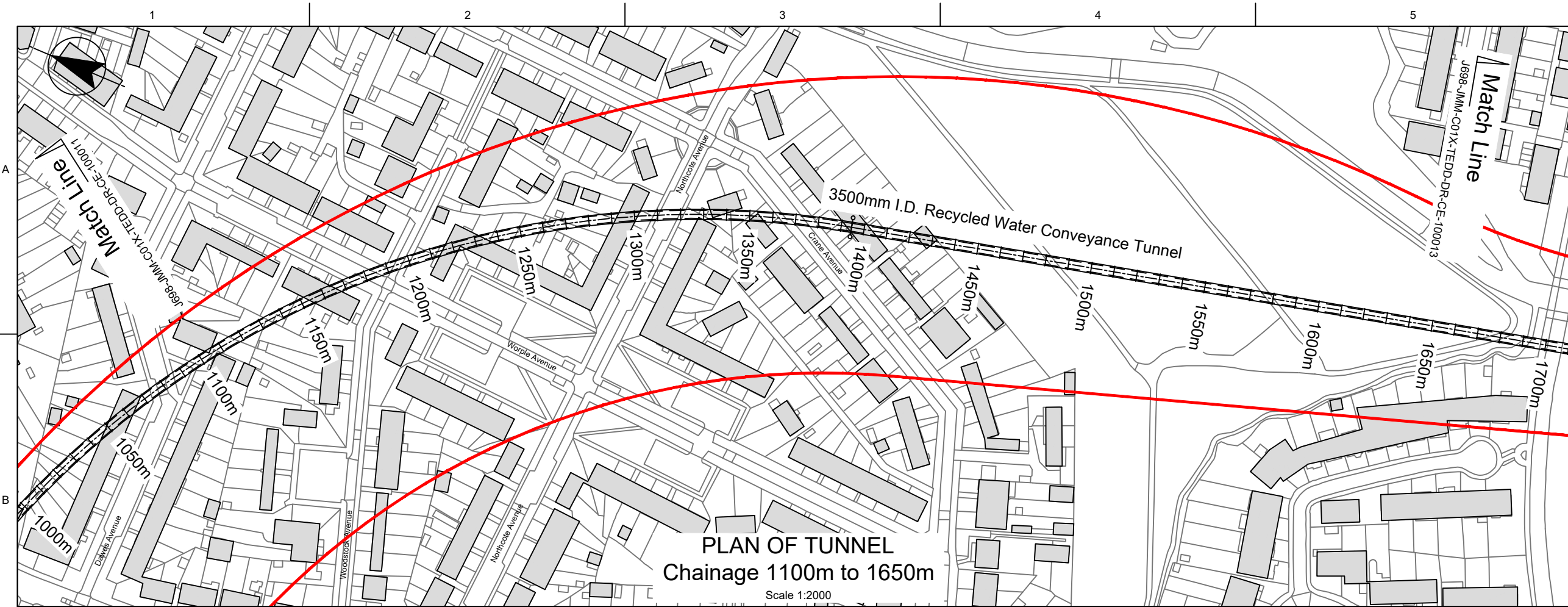
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Drawing Number:
J698-JMM-C01X-TEDD-DR-DR-100010

Revision:
C01

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Do not scale

Location Map Scale: NTS

Legend

Indicative 3500mm I.D. Tunnel

Draft Order limits

Indicative Existing Ground Profile

Notes

1.

The indicative alignment of the recycled water conveyance tunnel is subject to change as we undertake further refinement of both the Order limits and the tunnel route, through ongoing design and through consideration of responses to our statutory consultation process.

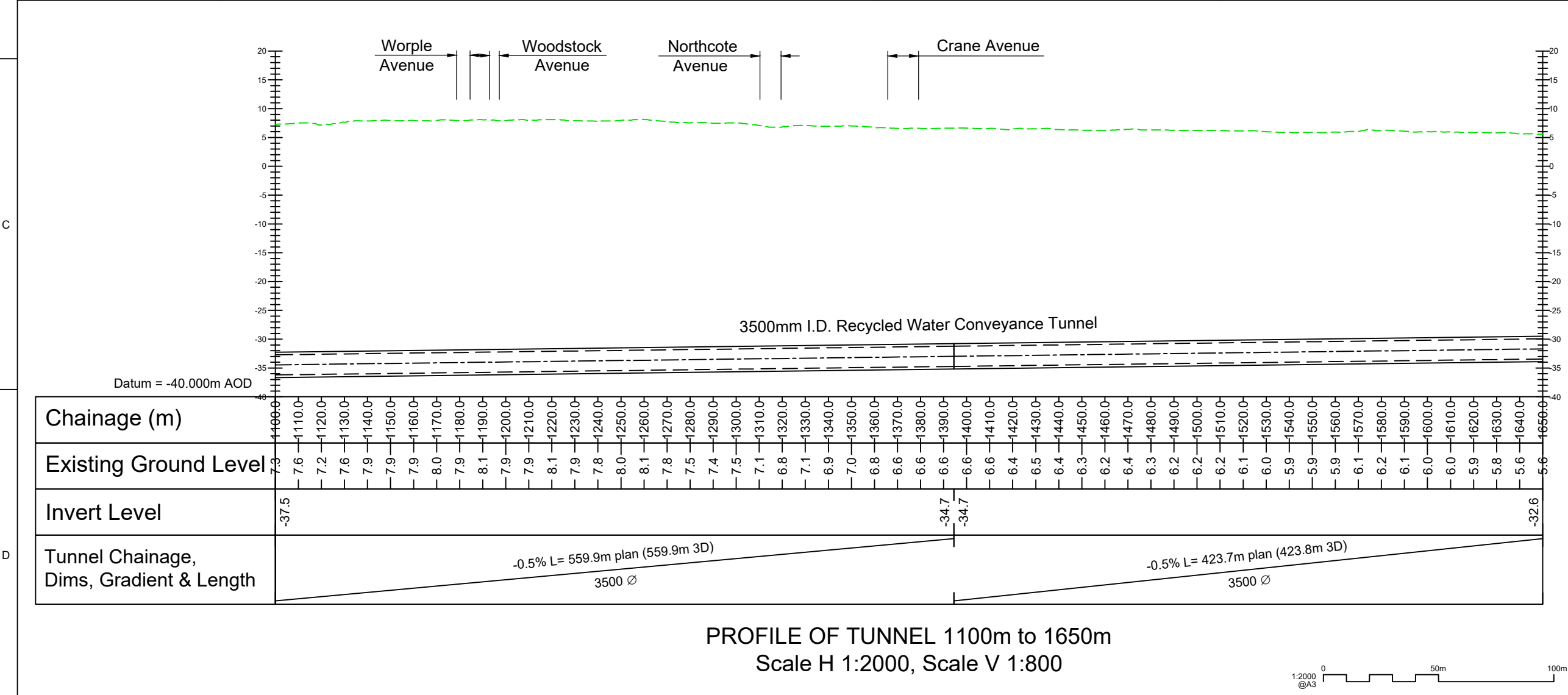
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All levels are in metres above ordnance datum (mAOD). Topographical data based on National Lidar Programme DTM-2021-TQ17NE & TQ17SE 1m resolution.

3.

The vertical limit of deviation has not yet been defined and is not shown.

4.

Existing buildings are not shown on the profile for clarity.

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Revision	Author	Subsidiary Description	Authorised	Checked	Reviewed	Date
C01	A	Authorised and accepted for consultation	BT	GB-R	AS	2025-05-13

APFP References:
N/A

Security Reference:
Public

Site Name:
N/A

Project Name:
Teddington Direct River Abstraction

Drawing Title:
INDICATIVE TUNNEL PLAN AND PROFILE
ALIGNMENT
SHEET 3 OF 9

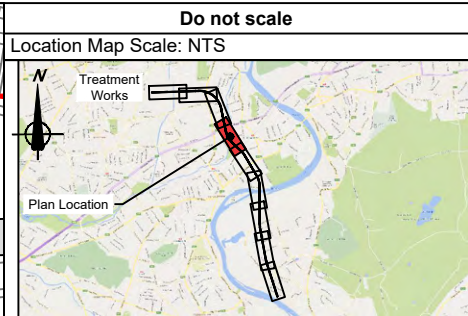
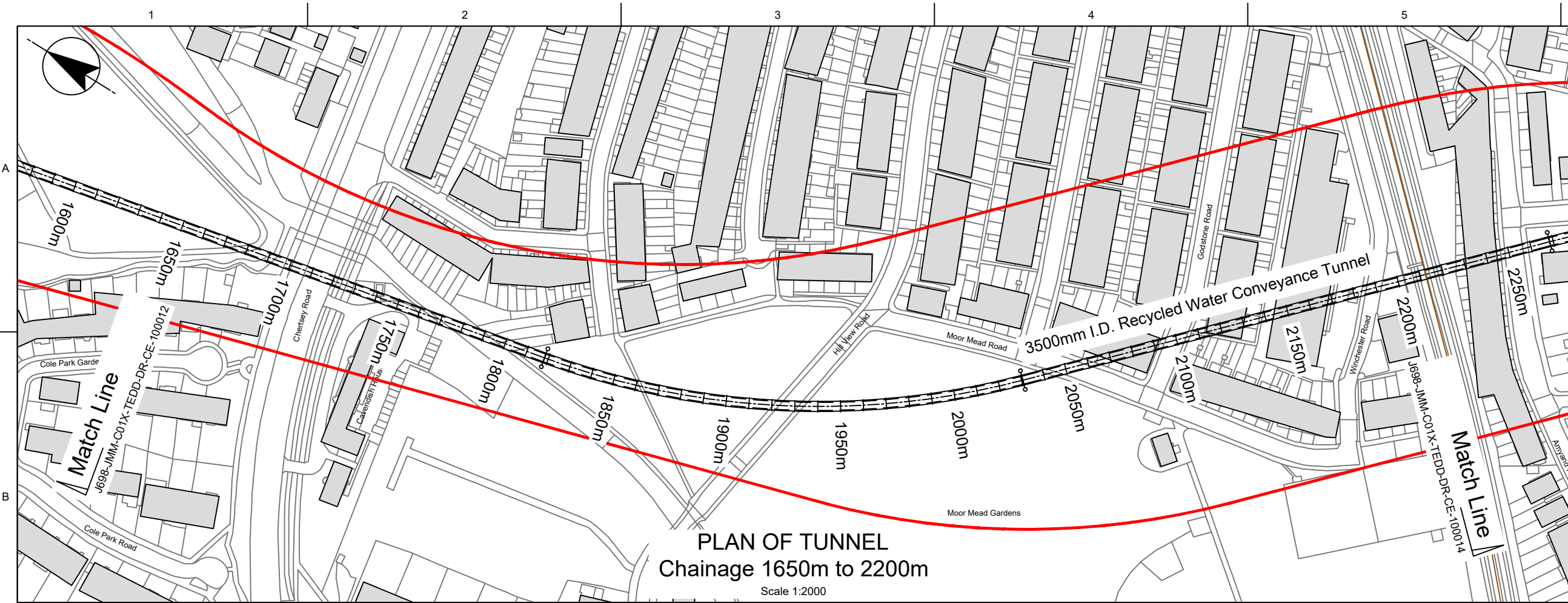
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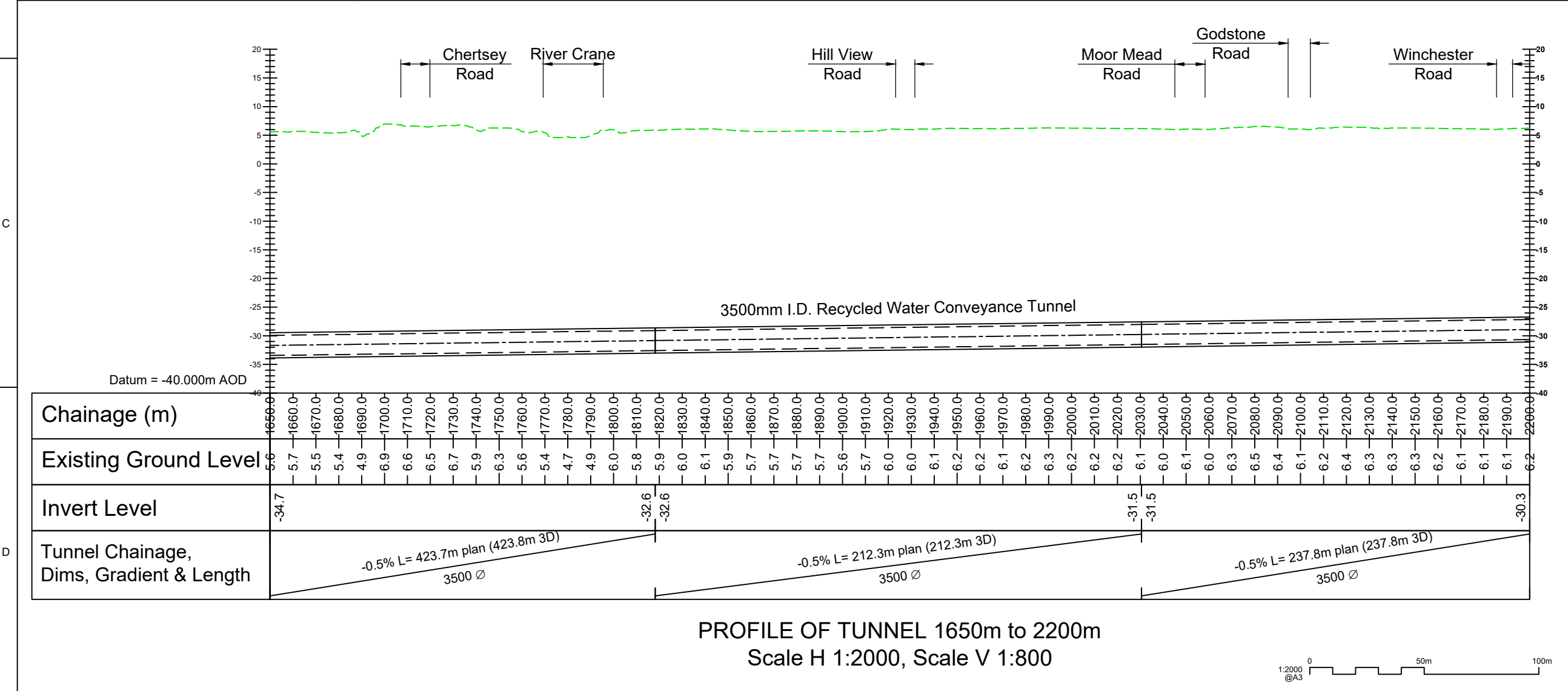
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Revision:
C01



- Legend
- Indicative 3500mm I.D. Tunnel
 - Draft Order limits
 - Indicative Existing Ground Profile

- Notes
- The indicative alignment of the recycled water conveyance tunnel is subject to change as we undertake further refinement of both the Order limits and the tunnel route, through ongoing design and through consideration of responses to our statutory consultation process.
 - All levels are in metres above ordnance datum (mAOD). Topographical data based on National Lidar Programme DTM-2021-TQ17NE & TQ17SE 1m resolution.
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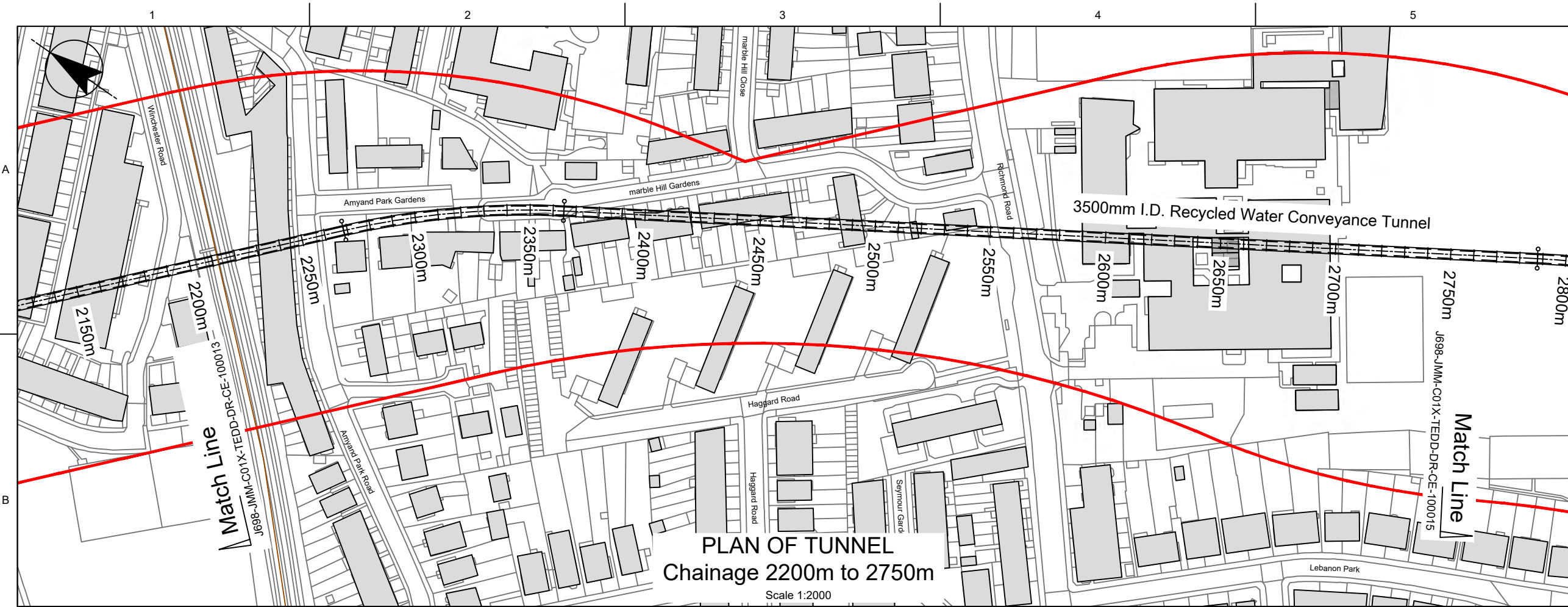
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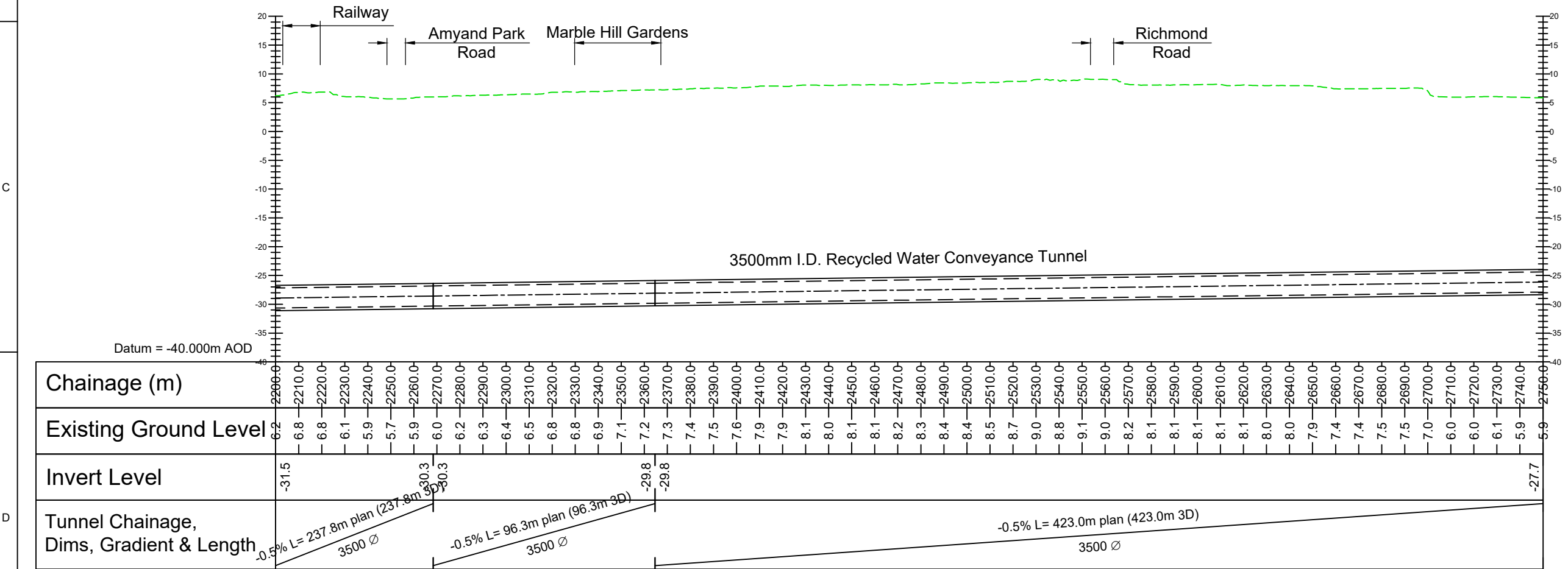
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C01	A	Authorised and accepted for consultation	BT	GB-R	AS	2025-05-13



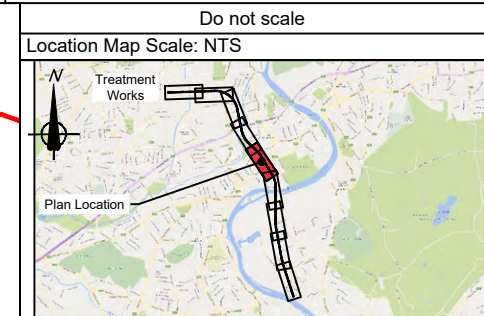
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Site Name: N/A	
Project Name: Teddington Direct River Abstraction	
Drawing Title: INDICATIVE TUNNEL PLAN AND PROFILE ALIGNMENT SHEET 4 OF 9	
Scale: As indicated	Sheet Size: A3
Drawing Number: J698-JMM-C01X-TEDD-DR-DR-100013	Status: A
	Revision: C01



PLAN OF TUNNEL
Chainage 2200m to 2750m
Scale 1:2000



PROFILE OF TUNNEL 2200m to 2750m
Scale H 1:2000, Scale V 1:800



- Legend
- Indicative 3500mm I.D. Tunnel
 - Draft Order limits
 - Indicative Existing Ground Profile

- Notes
- The indicative alignment of the recycled water conveyance tunnel is subject to change as we undertake further refinement of both the Order limits and the tunnel route, through ongoing design and through consideration of responses to our statutory consultation process.
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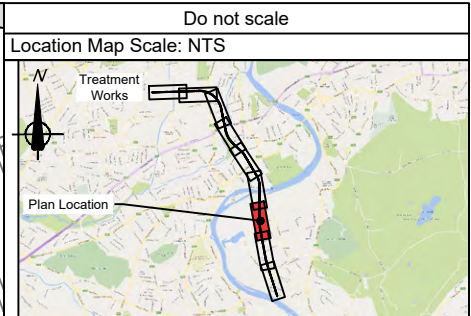
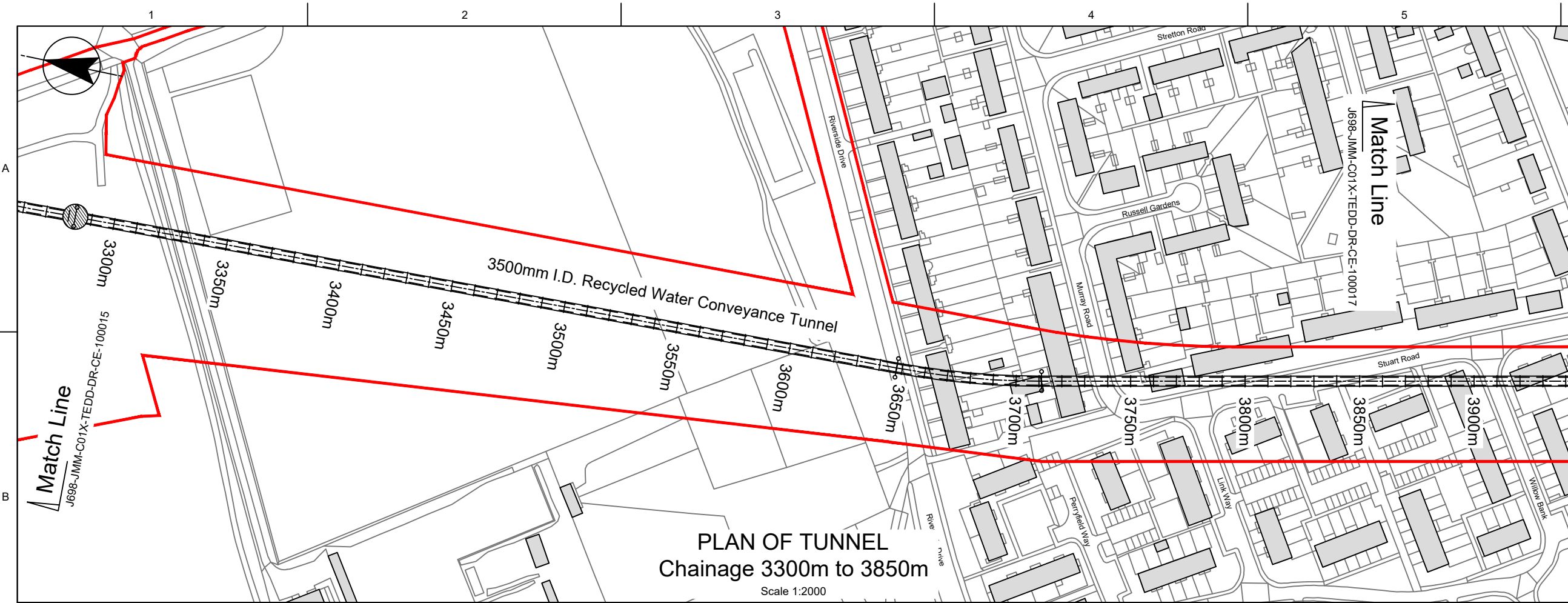
Current Revision Information

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Revision	Status	Authorised and accepted for consultation	BT	GB-R	AS	2025-05-13
C01	A	Authorised and accepted for consultation	BT	GB-R	AS	2025-05-13

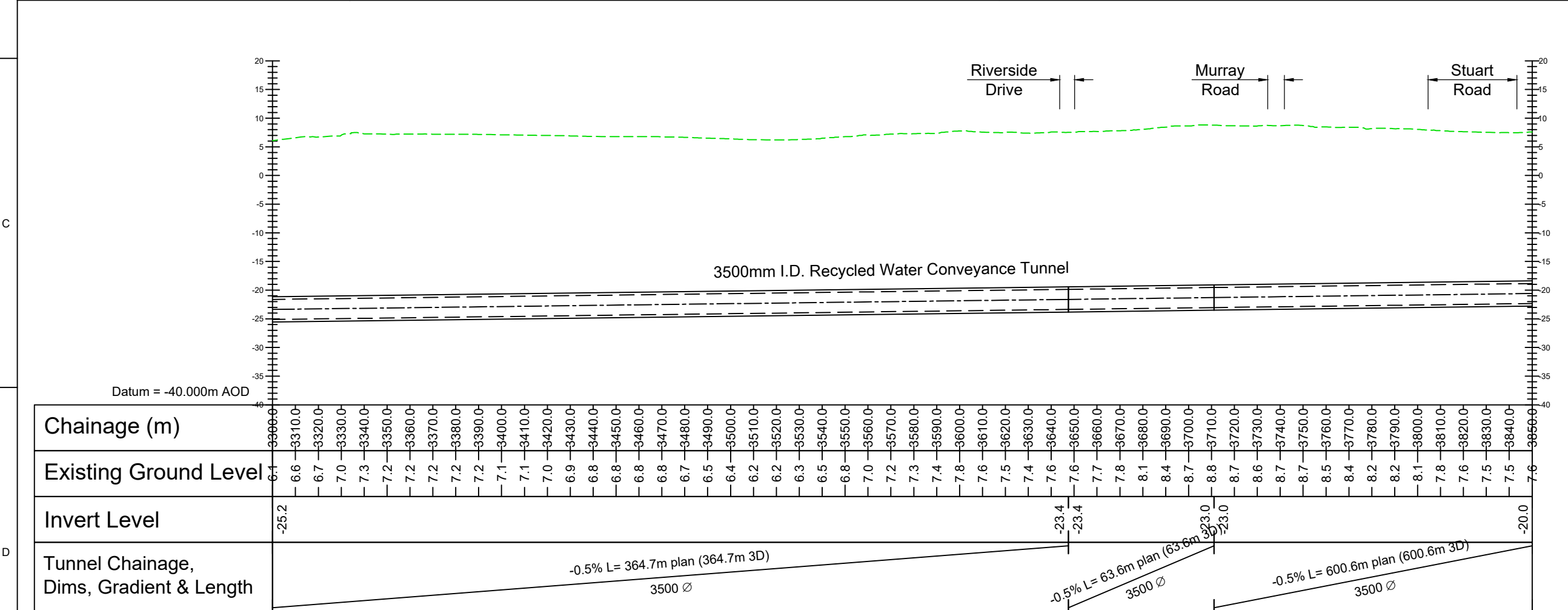


APFP References: N/A
Site Name: N/A
Project Name: Teddington Direct River Abstraction
Drawing Title: INDICATIVE TUNNEL PLAN AND PROFILE
SHEET 5 OF 9
Scale: As indicated
Drawing Number: J698-JMM-C01X-TEDD-DR-DR-100014
Status: A
Revision: C01

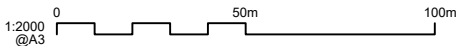


- Legend
- Indicative 3500mm I.D. Tunnel
 - Draft Order limits
 - Indicative Existing Ground Profile

- Notes
- The indicative alignment of the recycled water conveyance tunnel is subject to change as we undertake further refinement of both the Order limits and the tunnel route, through ongoing design and through consideration of responses to our statutory consultation process.
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PROFILE OF TUNNEL 3300m to 3850m
Scale H 1:2000, Scale V 1:800



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Revision	Status	Subsidiary Description	Authorised	Checked	Reviewed	Date
C01	A	Authorised and accepted for consultation	BT	GB-R	AS	2025-05-13

APFP References:
N/A

Site Name:
N/A

Project Name:
Teddington Direct River Abstraction

Drawing Title:
INDICATIVE TUNNEL PLAN AND PROFILE
ALIGNMENT
SHEET 7 OF 9

Scale:
As indicated

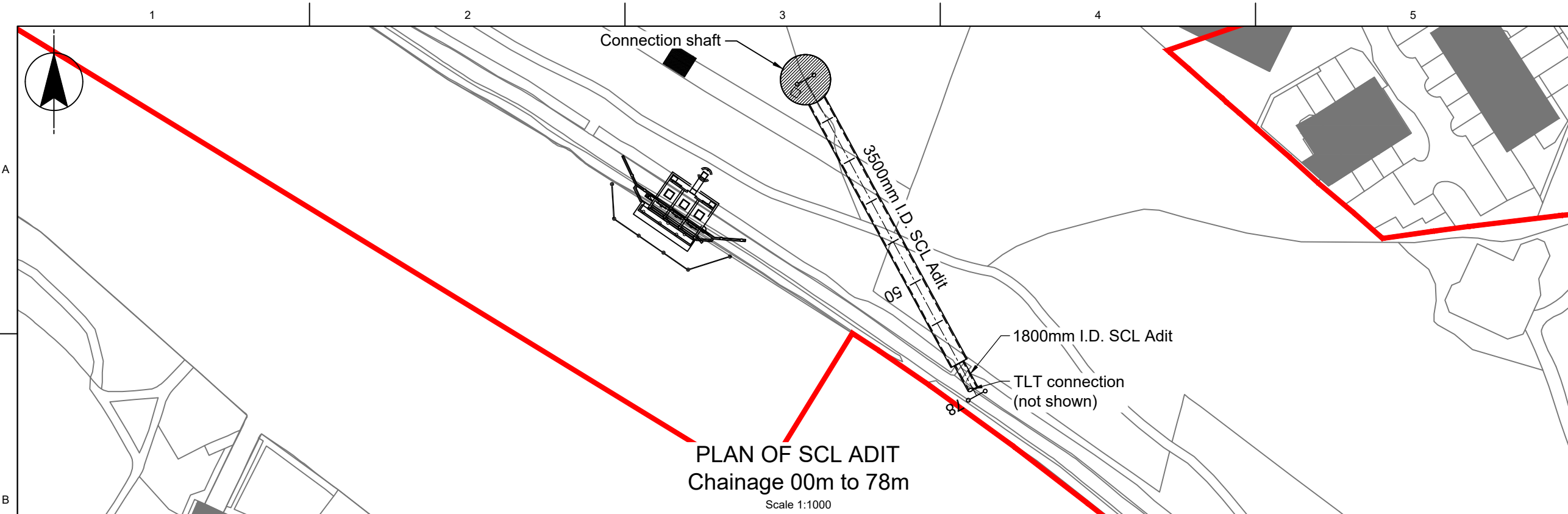
Drawing Number:
J698-JMM-C01X-TEDD-DR-DR-100016

Security Reference:
Public

Sheet Size:
A3

Status:
A

Revision:
C01



Do not scale

Location Map Scale: NTS

Legend

Indicative SCL Adit

Draft Order limits

Indicative Existing Ground Profile

Indicative Shaft Location

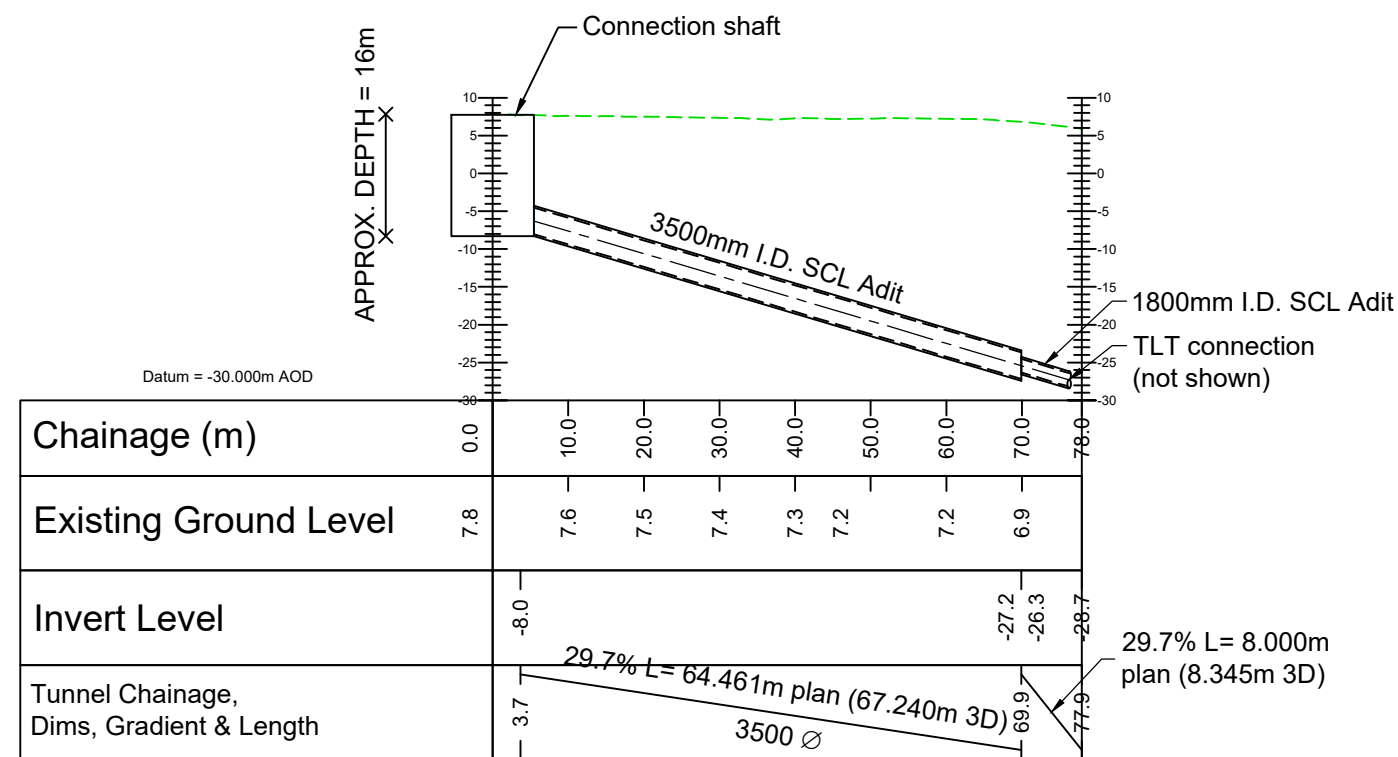
- Notes
1.

The indicative alignment of the SCL Adit tunnel is subject to change as we undertake further refinement of both the Order limits and the tunnel route, through ongoing design and through consideration of responses to our statutory consultation process.
2.

All levels are in metres above ordnance datum (mAOD). Topographical data based on National Lidar Programme DTM-2021-TQ17NE & TQ17SE 1m resolution.
3.

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Revision	Status	Subsidiary Description	Authorised	Checked	Reviewed	Date
C01	A	Authorised and accepted for consultation	BT	GB-R	AS	2025-05-13

APFP References: N/A

Security Reference: Public

Site Name: N/A

Project Name: Teddington Direct River Abstraction

Drawing Title: RAW WATER CONVEYANCE PIPELINE BURNELL AVENUE ADIT PLAN AND PROFILE ALIGNMENT

Scale: As indicated

Sheet Size: A3

Status: A

Drawing Number: J698-JMM-C01X-TEDD-DR-CE-100026

Revision: C01

Notice

This document and the draft plans and drawings within it have been produced to support the summer 2025 statutory consultation on the Teddington Direct River Abstraction project. The information presented is based on our current project design and assessment of its anticipated construction requirements. Project design and construction requirements may change in response to feedback received during consultation and ongoing design development. Updated plans will be submitted as part of the project's Development Consent Order application.



