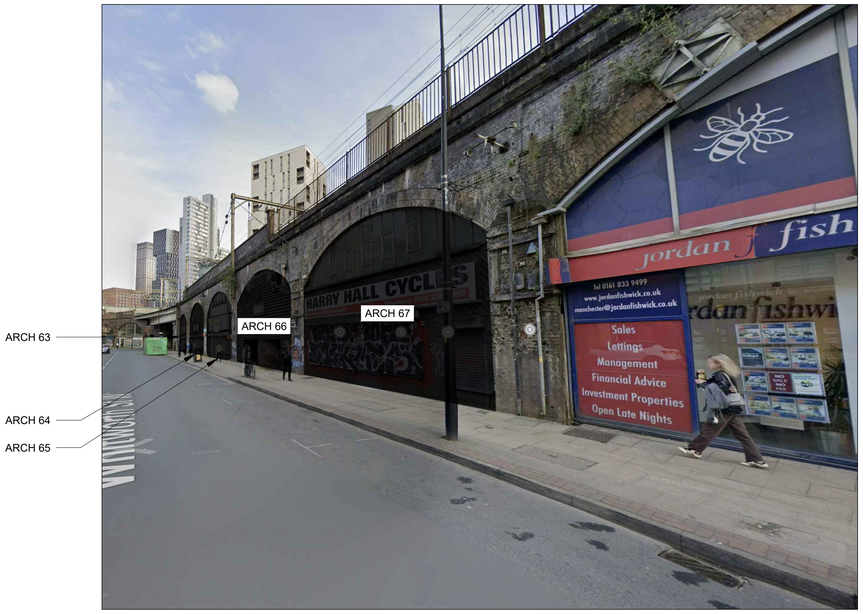
Drawing Number
188989-WDC-CIV-DWG-001



SITE PHOTO 01
VIEW AT STREET LEVEL
SCALE: NOT TO SCALE



PHOTO 02
VIEW TO REAR OF VIADUCT
SCALE: NOT TO SCALE



PHOTO 03
AERIAL VIEW OF ARCHES
SCALE: NOT TO SCALE

Legend/Notes

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
2. DO NOT SCALE FROM THIS DRAWING.
3. THIS DRAWING IS BASED ON AVAILABLE NETWORK RAIL RECORD INFORMATION.

Rev	Date	Description of Revisions	Drawn	Chkd	Appr
P01	27/05/26	PRELIMINARY	MW	TP	ADH

Status: PRELIMINARY

Designers

IDT - Works Delivery
Heaton Mersey
Unit C1
The Embankment
Heaton Mersey, Stockport
SK4 3GL

Network Rail

Project: COL VIADUCT STRENGTHENING (63-67)

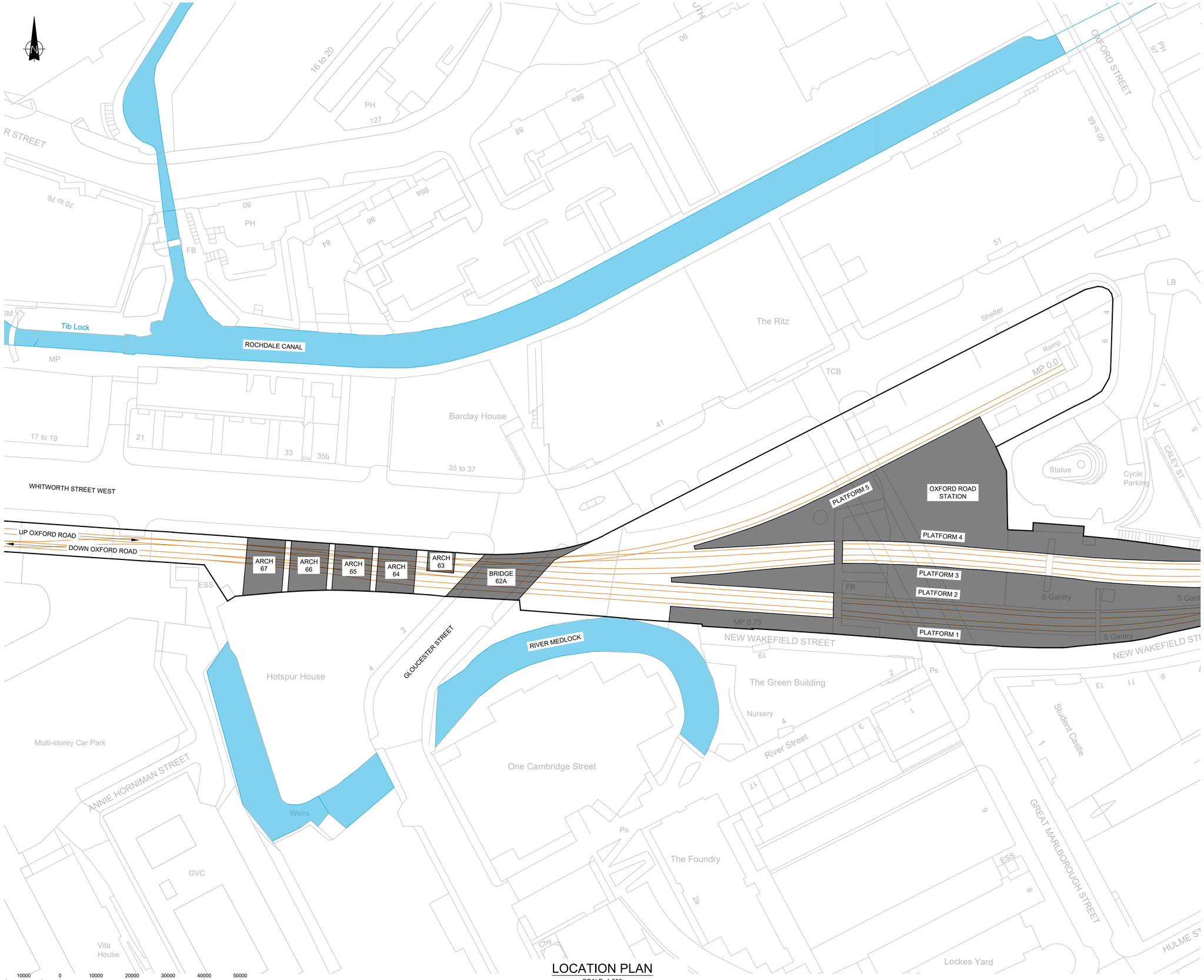
Drawing Title: SITE INFORMATION & PHOTOS

Designer	T PITCHFORTH	Signed T.Pitchforth	Date 01/05/2026
Drawn	M WILLIAMS	Signed	Date 01/05/2026
Checked	A HORNE	Signed	Date XX/XX/XXXX
Endorsed By CEM	A HORNE	Signed	Date XX/XX/XXXX

Scale(s) at A1 Sheet Size A1 594 x 841: NOT TO SCALE
ELR & Mileage: COL 189mi 0798yd - 0852yd

Drawing Number: 188989-WDC-CIV-DWG-001
Revision: P01

Drawing Number
188989-WDC-CIV-DWG-100



25000 10000 0 10000 20000 30000 40000 50000
ORIGINAL SCALE AT A1 - 1:500 ALL DIMENSIONS IN MILLIMETRES

LOCATION PLAN
SCALE: 1:500

Legend/Notes

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
2. DO NOT SCALE FROM THIS DRAWING.
3. THIS DRAWING IS BASED ON AVAILABLE NETWORK RAIL RECORD INFORMATION.

Rev	Date	Description of Revisions	Drawn	Chkd	Appr
P01	27/05/26	PRELIMINARY	MW	TP	ADH

Status: PRELIMINARY

Designers

IDT - Works Delivery
Heaton Mersey
Unit C1
The Embankment
Heaton Mersey, Stockport
SK4 3GL

Network Rail

Project: COL VIADUCT STRENGTHENING (63-67)

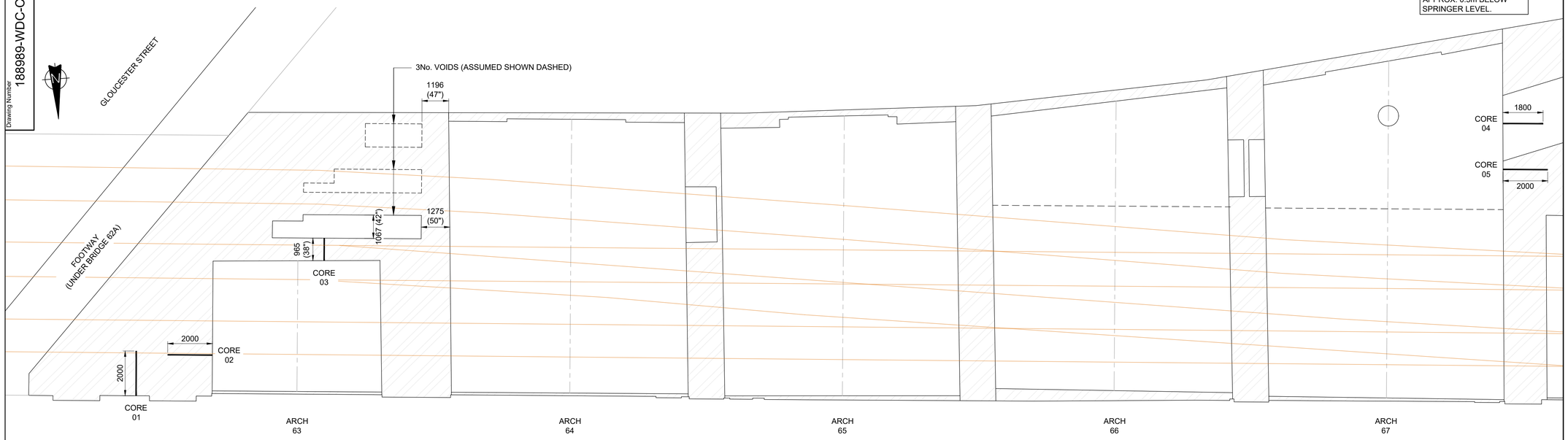
Drawing Title: LOCATION PLAN

Designer	T PITCHFORTH	Signed T.Pitchforth	Date	01/05/2026
Drawn	M WILLIAMS	Signed	Date	01/05/2026
Checked	A HORNE	Signed	Date	XX/XX/XXXX
Endorsed By CEM	A HORNE	Signed	Date	XX/XX/XXXX

Scale(s) at A1: 1:500 — Sheet Size A1 594 x 841 — ELR & Mileage: COL 189mi 0798yd - 0852yd

Drawing Number: 188989-WDC-CIV-DWG-100 — Revision: P01

Drawing Number
188989-WDC-CIV-DWG-101



CORES 01, 02 & 03 WERE
DRILLED HORIZONTALLY
APPROX. 1.5m AGL.

PLAN SHOWING COREHOLE LOCATIONS

SCALE: 1:100



PLAN SHOWING ARCH BARREL FRACTURE LOCATIONS

SCALE: 1:100

PRIOR TO THE MAIN WORKS, AREAS OF LOOSE BRICKWORK ARE TO BE RECASED IN ACCORDANCE WITH NR/CIV/SD/103. LONGITUDINAL FRACTURES ARE TO BE STITCHED IN ACCORDANCE WITH NR/CIV/SD/109.

KEY

FRACTURE

LOOSE/MISSING BRICKWORK

5000 1000 0 5000 10000

ORIGINAL SCALE AT A1 - 1:100 ALL DIMENSIONS IN MILLIMETRES

Legend/Notes

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
2. DO NOT SCALE FROM THIS DRAWING.
3. THIS DRAWING IS BASED ON AVAILABLE NETWORK RAIL RECORD INFORMATION.

Rev	Date	Description of Revisions	Drawn	Chkd	Appr
P01	27/05/26	PRELIMINARY	MW	TP	ADH

Status: PRELIMINARY

Designers

IDT - Works Delivery
Heaton Mersey
Unit C1
The Embankment
Heaton Mersey, Stockport
SK4 3GL

Network Rail

Project: COL VIADUCT STRENGTHENING (63-67)

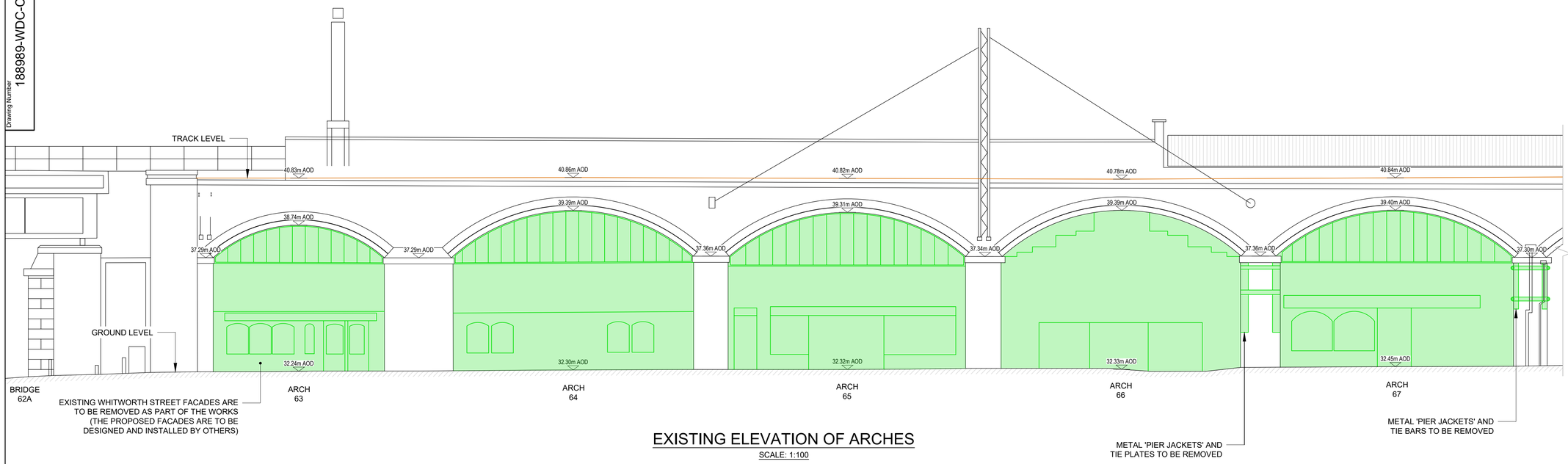
Drawing Title: EXISTING PLAN ON VIADUCT

Designer	T PITCHFORTH	Signed T.Pitchforth	Date 01/05/2026
Drawn	M WILLIAMS	Signed	Date 01/05/2026
Checked	A HORNE	Signed	Date XX/XX/XXXX
Endorsed By CEM	A HORNE	Signed	Date XX/XX/XXXX

Scale(s) at A1: 1:100 Sheet Size A1 594 x 841 ELR & Mileage: COL 189mi 0798yd - 0852yd

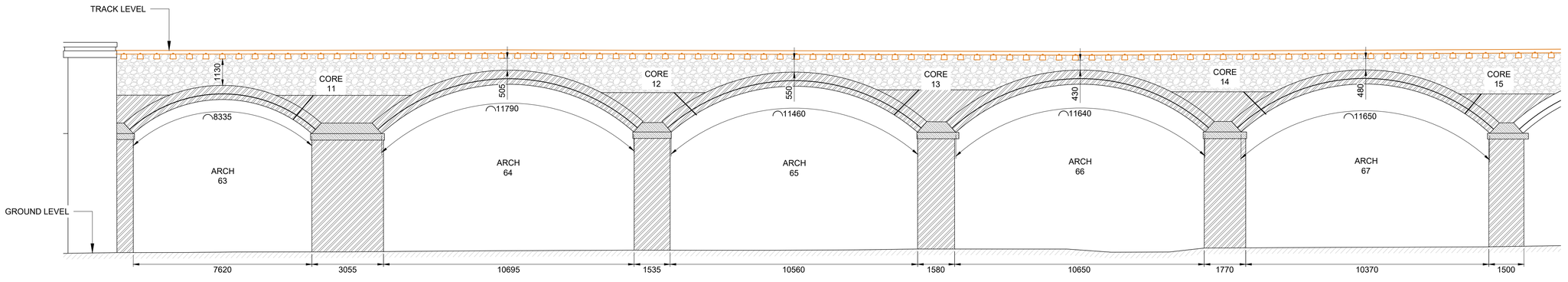
Drawing Number: 188989-WDC-CIV-DWG-101 Revision: P01

Drawing Number
188989-WDC-CIV-DWG-102



EXISTING ELEVATION OF ARCHES

SCALE: 1:100



EXISTING LONGITUDINAL SECTION OF ARCHES

SCALE: 1:100

SCHEDULE OF INCLINED COREHOLES

CORE I.D.	INCLINATION FROM HORIZONTAL	DEPTH	DISTANCE FROM STRINGER
CORE 11	50°	1.35m	1m
CORE 12	45°	1.35m	1.3m
CORE 13	45°	1.5m	1.25m
CORE 14	45°	1.35m	1.3m
CORE 15	50°	1.1m	1.35m

5000 1000 0 5000 10000
ORIGINAL SCALE AT A1 - 1:100 ALL DIMENSIONS IN MILLIMETRES

Legend/Notes

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
2. DO NOT SCALE FROM THIS DRAWING.
3. THIS DRAWING IS BASED ON AVAILABLE NETWORK RAIL RECORD INFORMATION.
4. ALL VEGETATION WITHIN 3m OF THE STRUCTURE IS TO BE REMOVED.

Rev	Date	Description of Revisions	Drawn	Chkd	Appr
P01	27/05/26	PRELIMINARY	MW	TP	ADH

Status: PRELIMINARY

Designers

IDT - Works Delivery
Heaton Mersey
Unit C1
The Embankment
Heaton Mersey, Stockport
SK4 3GL

Network Rail

Project: COL VIADUCT STRENGTHENING (63-67)

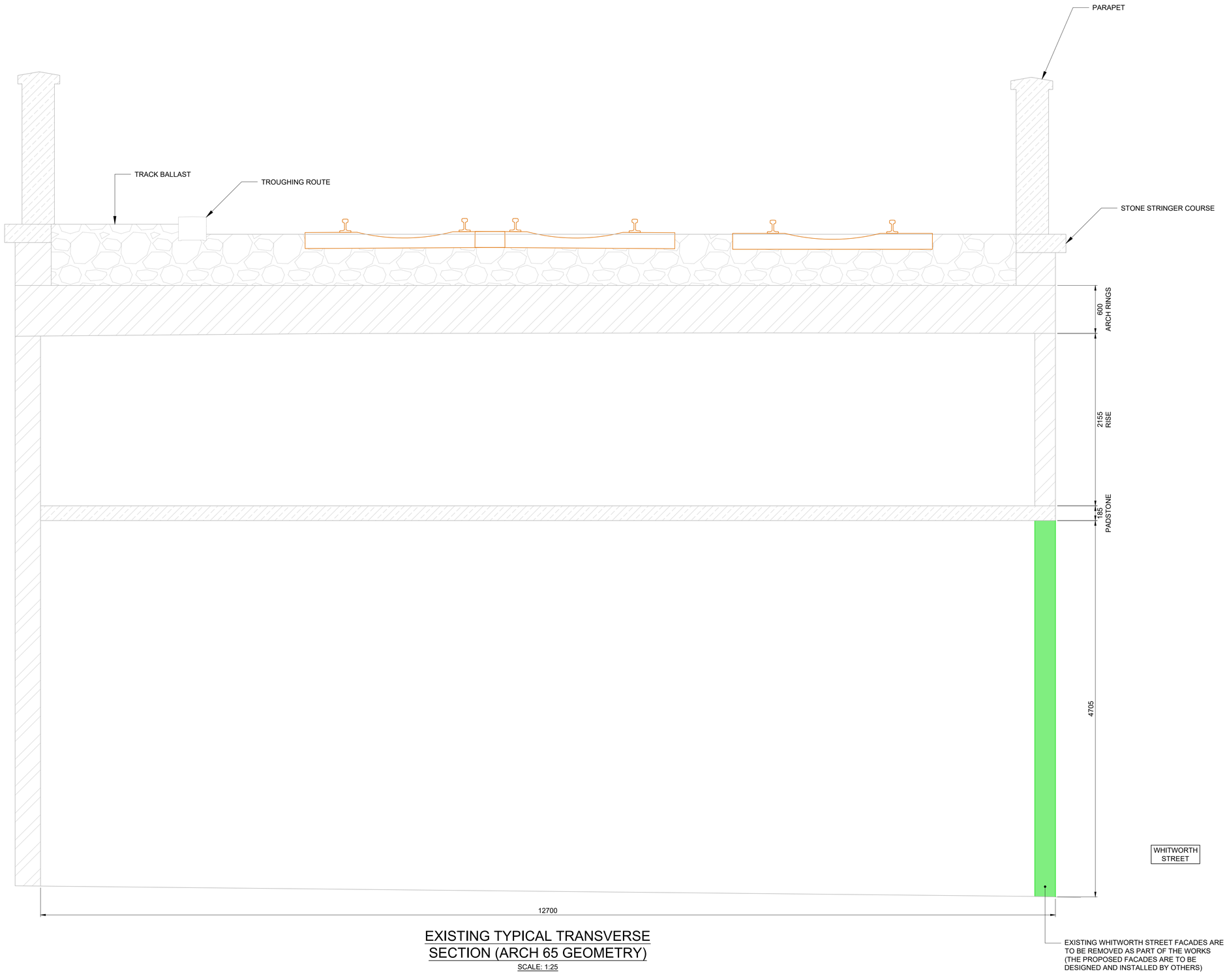
Drawing Title: EXISTING ELEVATION & LONGITUDINAL SECTION

Designer	T PITCHFORTH	Signed T.Pitchforth	Date 01/05/2026
Drawn	M WILLIAMS	Signed	Date 01/05/2026
Checked	A HORNE	Signed	Date XX/XX/XXXX
Endorsed By CEM	A HORNE	Signed	Date XX/XX/XXXX

Scale(s) at A1: 1:100 | Sheet Size A1 594 x 841 | ELR & Mileage: COL 189mi 0798yd - 0852yd

Drawing Number: 188989-WDC-CIV-DWG-102 | Revision: P01

Drawing Number
188989-WDC-CIV-DWG-103



EXISTING TYPICAL TRANSVERSE
SECTION (ARCH 65 GEOMETRY)

SCALE: 1:25

1250 1000 500 0 1000 2000 2500
ORIGINAL SCALE AT A1 - 1:25 ALL DIMENSIONS IN MILLIMETRES

Legend/Notes

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
2. DO NOT SCALE FROM THIS DRAWING.
3. THIS DRAWING IS BASED ON AVAILABLE NETWORK RAIL RECORD INFORMATION.

Rev	Date	Description of Revisions	Drawn	Chkd	Appr
P01	27/05/26	PRELIMINARY	MW	TP	ADH

Status
PRELIMINARY

Designers
IDT - Works Delivery
Heaton Mersey
Unit C1
The Embankment
Heaton Mersey, Stockport
SK4 3GL

Project
COL VIADUCT STRENGTHENING (63-67)

Drawing Title
TYPICAL SECTION (SPAN 65 GEOMETRY)

Designer	T PITCHFORTH	Signed T. Pitchforth	Date 01/05/2026
Drawn	M WILLIAMS	Signed	Date 01/05/2026
Checked	A HORNE	Signed	Date XX/XX/XXXX
Endorsed By CEM	A HORNE	Signed	Date XX/XX/XXXX

Scale(s) at A1 Sheet Size A1 594 x 841: 1:25
ELR & Mileage: COL 189mi 0798yd - 0852yd

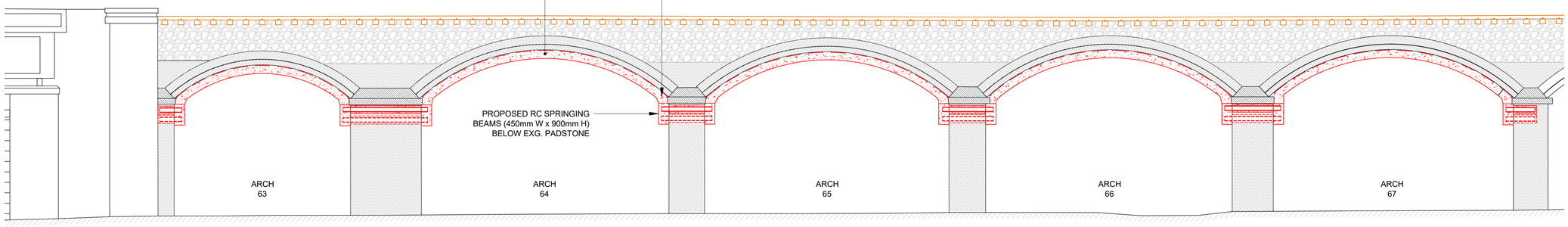
Drawing Number: 188989-WDC-CIV-DWG-103
Revision: P01

Drawing Number
188989-WDC-CIV-DWG-200

PROPOSED REINFORCED CONCRETE UNDER ARCH STRENGTHENING CLAD IN BRICK TO MIMIC EXISTING ARCH BARREL

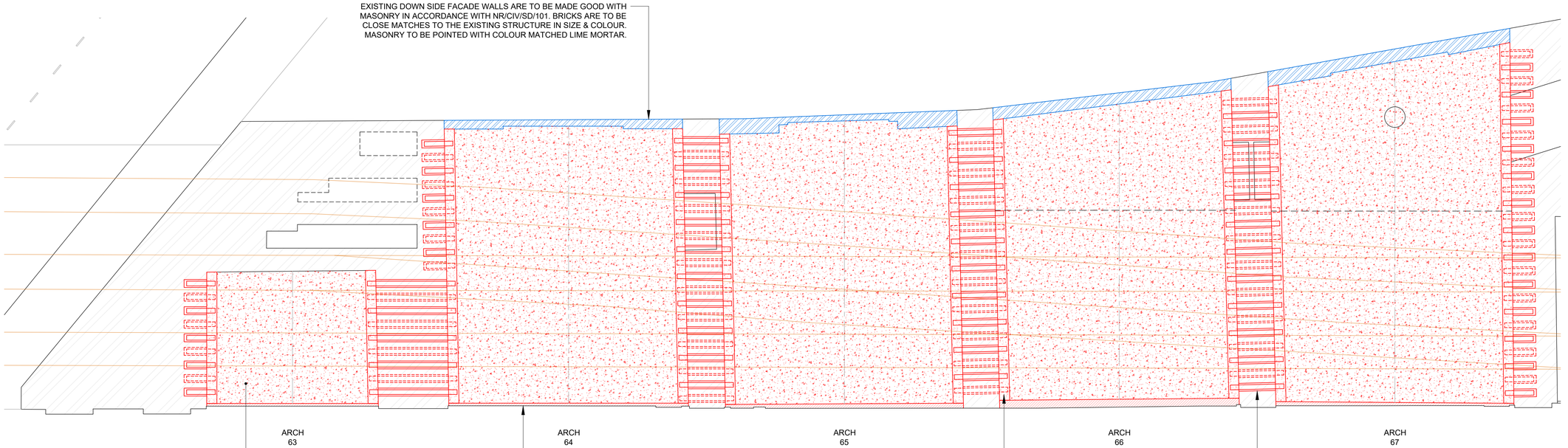
PROPOSED FEATURE SPRINGING STONE TO CLADDING TO MIMIC EXG. PADSTONES

PROPOSED RC SPRINGING BEAMS (450mm W x 900mm H) BELOW EXG. PADSTONE



THE EXISTING WHITWORTH STREET FACADES ARE TO BE REMOVED AS PART OF THE WORKS. THE PROPOSED FACADES ARE TO BE DESIGNED AND INSTALLED BY OTHERS.

EXISTING DOWN SIDE FACADE WALLS ARE TO BE MADE GOOD WITH MASONRY IN ACCORDANCE WITH NR/CIV/SD/101. BRICKS ARE TO BE CLOSE MATCHES TO THE EXISTING STRUCTURE IN SIZE & COLOUR. MASONRY TO BE POINTED WITH COLOUR MATCHED LIME MORTAR.



PROPOSED SPRAY APPLIED REINFORCED CONCRETE UNDER ARCHES

BRICK CLADDING (≈120mm THICK) TO FINISH FLUSH WITH THE FRONT FACE OF THE VIADUCT

PROPOSED RC SPRINGING BEAMS INSITU CAST BELOW EXG. PADSTONE

PROPOSED 203x203x86 UC SPRINGING BEAMS GROUTED IN Ø350mm CORE (SEE DETAIL ON DWG 204)

PROPOSED PLAN OF ARCHES

SCALE: 1:100

PROPOSED UC SPRINGING BEAM QUANTITIES:
- SOCKETED: 45No.
- NEEDLE (5' PIER): 62No.
- NEEDLE (10' PIER): 9No.

5000 1000 0 5000 10000
ORIGINAL SCALE AT A1 - 1:100 ALL DIMENSIONS IN MILLIMETRES

2500 1000 0 1000 2000 3000 4000 5000
ORIGINAL SCALE AT A1 - 1:50 ALL DIMENSIONS IN MILLIMETRES

1250 1000 500 0 1000 2000 2500
ORIGINAL SCALE AT A1 - 1:25 ALL DIMENSIONS IN MILLIMETRES

Legend/Notes

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
2. DO NOT SCALE FROM THIS DRAWING.
3. THIS DRAWING IS BASED ON AVAILABLE NETWORK RAIL RECORD INFORMATION.
4. BRICKS FOR BRICK CLADDING ARE TO BE CLOSE MATCHES TO THE EXISTING STRUCTURE IN COLOUR AND SIZE. BRICK CLADDING IS TO BE POINTED WITH COLOUR MATCHED LIME MORTAR.

Rev	Date	Description of Revisions	Drawn	Chkd	Appr
P01	27/05/26	PRELIMINARY	MW	TP	ADH

Status: PRELIMINARY

Designers

IDT - Works Delivery
Heaton Mersey
Unit C1
The Embankment
Heaton Mersey, Stockport
SK4 3GL

Project: COL VIADUCT STRENGTHENING (63-67)

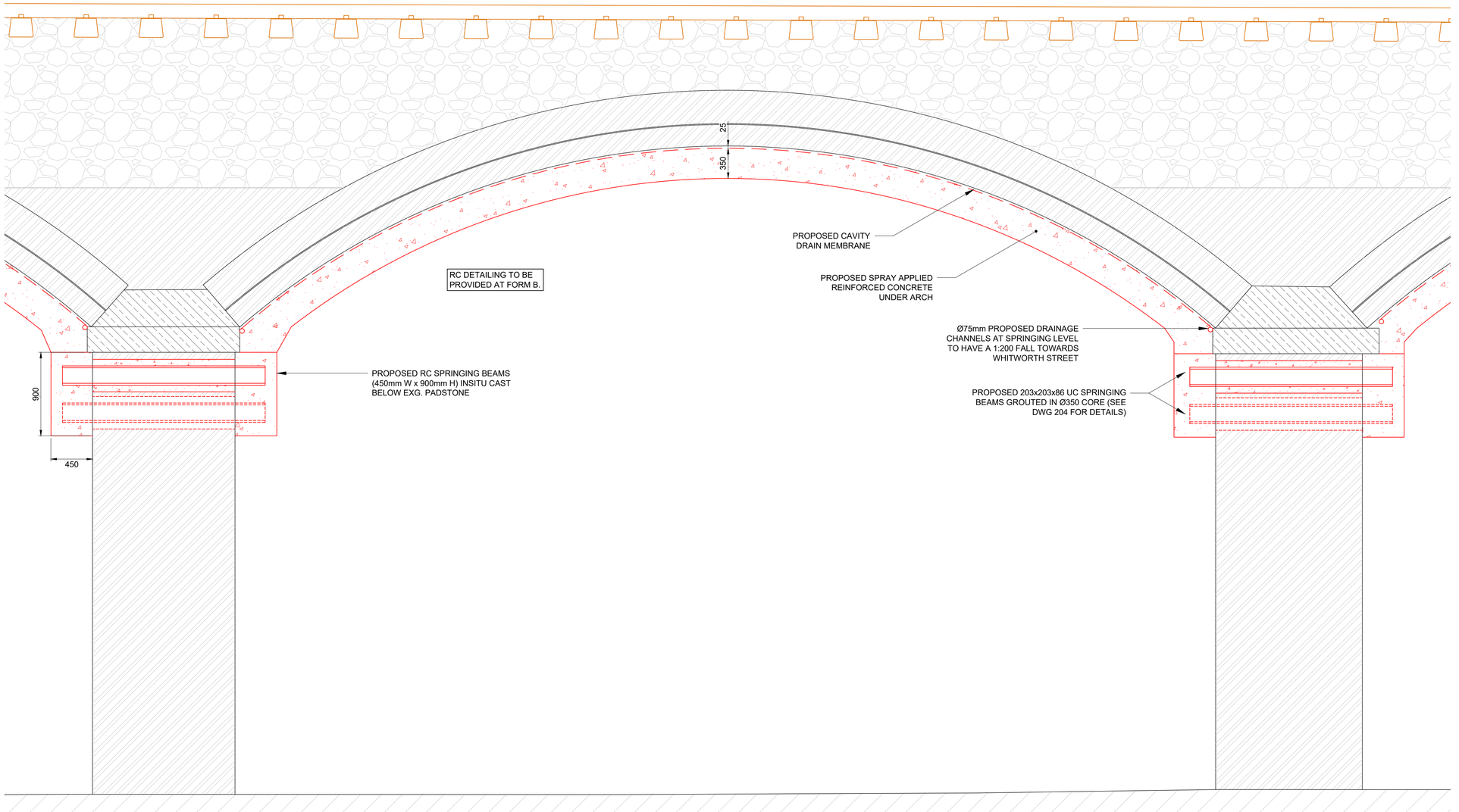
Drawing Title: PROPOSED PLAN & LONGITUDINAL SECTION ON VIADUCT

Designer	T PITCHFORTH	Signed T.Pitchforth	Date 01/05/2026
Drawn	M WILLIAMS	Signed	Date 01/05/2026
Checked	A HORNE	Signed	Date XX/XX/XXXX
Endorsed By CEM	A HORNE	Signed	Date XX/XX/XXXX

Scale(s) at A1 Sheet Size A1 594 x 841 | ELR & Mileage: COL 189mi 0798yd - 0852yd

Drawing Number: 188989-WDC-CIV-DWG-201 | Revision: P01

Drawing Number
188989-WDC-CIV-DWG-201



PROPOSED TYPICAL LONGITUDINAL SECTION

SCALE: 1:25

PROPOSED UC SPRINGING BEAM QUANTITIES:
- SOCKETED: 45No.
- NEEDLE (5' PIER): 62No.
- NEEDLE (10' PIER): 9No.

1250 1000 500 0 1000 2000 2500
ORIGINAL SCALE AT A1 - 1:25 ALL DIMENSIONS IN MILLIMETRES

Legend/Notes
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
2. DO NOT SCALE FROM THIS DRAWING.
3. THIS DRAWING IS BASED ON AVAILABLE NETWORK RAIL RECORD INFORMATION.

Rev	Date	Description of Revisions	Drawn	Chkd	Appr
P01	27/05/26	PRELIMINARY	MW	TP	ADH

Status: PRELIMINARY

Designers
IDT - Works Delivery
Heaton Mersey
Unit C1
The Embankment
Heaton Mersey, Stockport
SK4 3GL

Project: COL VIADUCT STRENGTHENING (63-67)

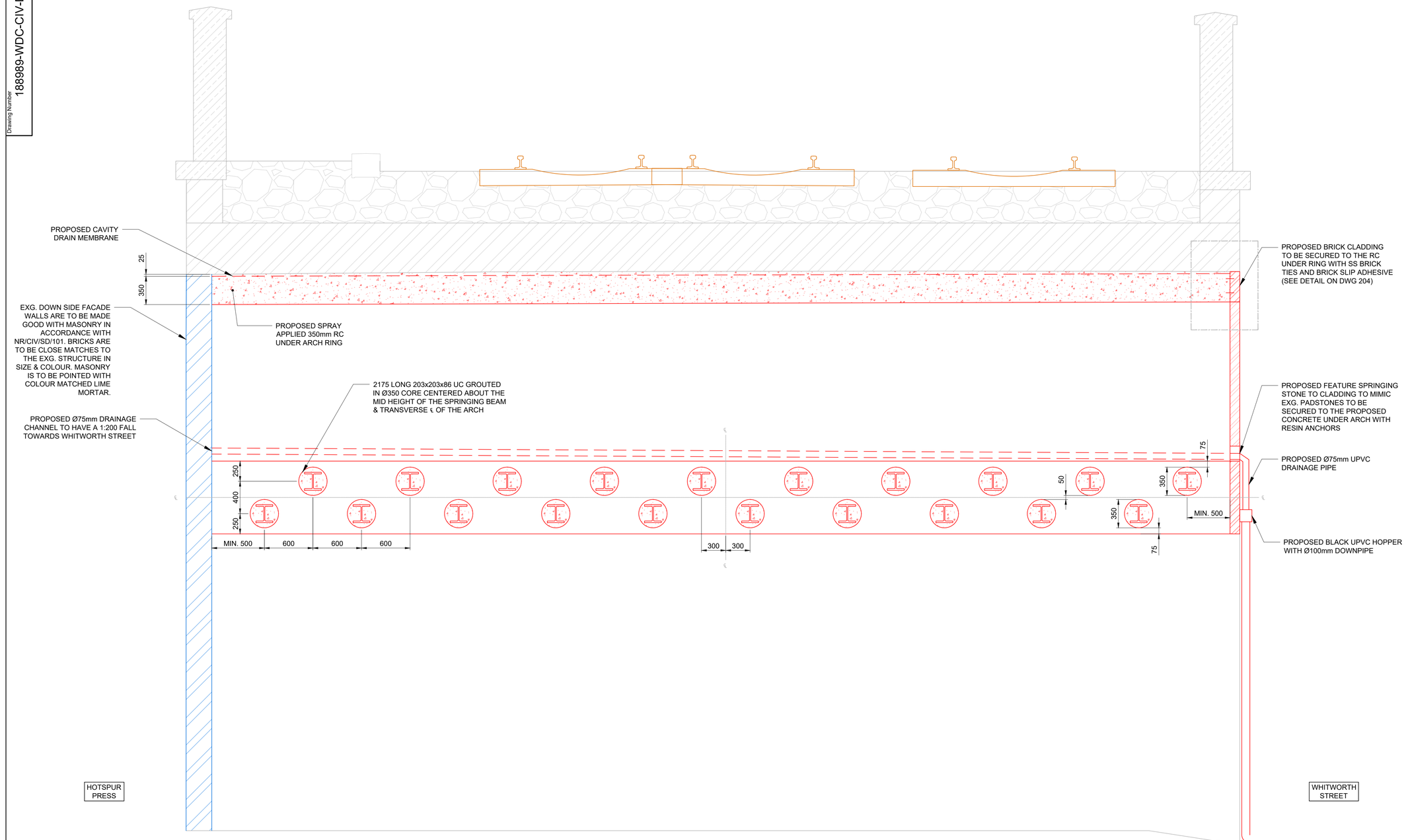
Drawing Title: PROPOSED TYPICAL LONGITUDINAL SECTION ON ARCH

Designer	T PITCHFORTH	Signed T.Pitchforth	Date 01/05/2026
Drawn	M WILLIAMS	Signed	Date 01/05/2026
Checked	A HORNE	Signed	Date XX/XX/XXXX
Endorsed By CEM	A HORNE	Signed	Date XX/XX/XXXX

Scale(s) at A1 Sheet Size A1 594 x 841 | ELR & Mileage: COL 189mi 0798yd - 0852yd

Drawing Number: 188989-WDC-CIV-DWG-202 | Revision: P01

Drawing Number
188989-WDC-CIV-DWG-203



PROPOSED TYPICAL TRANSVERSE SECTION/ELEVATION

SCALE: 1:25

PROPOSED UC SPRINGING BEAM QUANTITIES:
- SOCKETED: 45No.
- NEEDLE (5' PIER): 62No.
- NEEDLE (10' PIER): 9No.

1250 1000 500 0 1000 2000 2500
ORIGINAL SCALE AT A1 - 1:25 ALL DIMENSIONS IN MILLIMETRES

250 100 0 100 200 300 400 500
ORIGINAL SCALE AT A1 - 1:5 ALL DIMENSIONS IN MILLIMETRES

Legend/Notes

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
2. DO NOT SCALE FROM THIS DRAWING.
3. THIS DRAWING IS BASED ON AVAILABLE NETWORK RAIL RECORD INFORMATION.
4. BRICKS FOR BRICK CLADDING ARE TO BE CLOSE MATCHES TO THE EXISTING STRUCTURE IN COLOUR AND SIZE. BRICK CLADDING IS TO BE POINTED WITH COLOUR MATCHED LIME MORTAR.

Rev	Date	Description of Revisions	Drawn	Chkd	Appr
P01	27/05/26	PRELIMINARY	MW	TP	ADH

Status: PRELIMINARY

Designers

IDT - Works Delivery
Heaton Mersey
Unit C1
The Embankment
Heaton Mersey, Stockport
SK4 3GL

Network Rail

Project: COL VIADUCT STRENGTHENING (63-67)

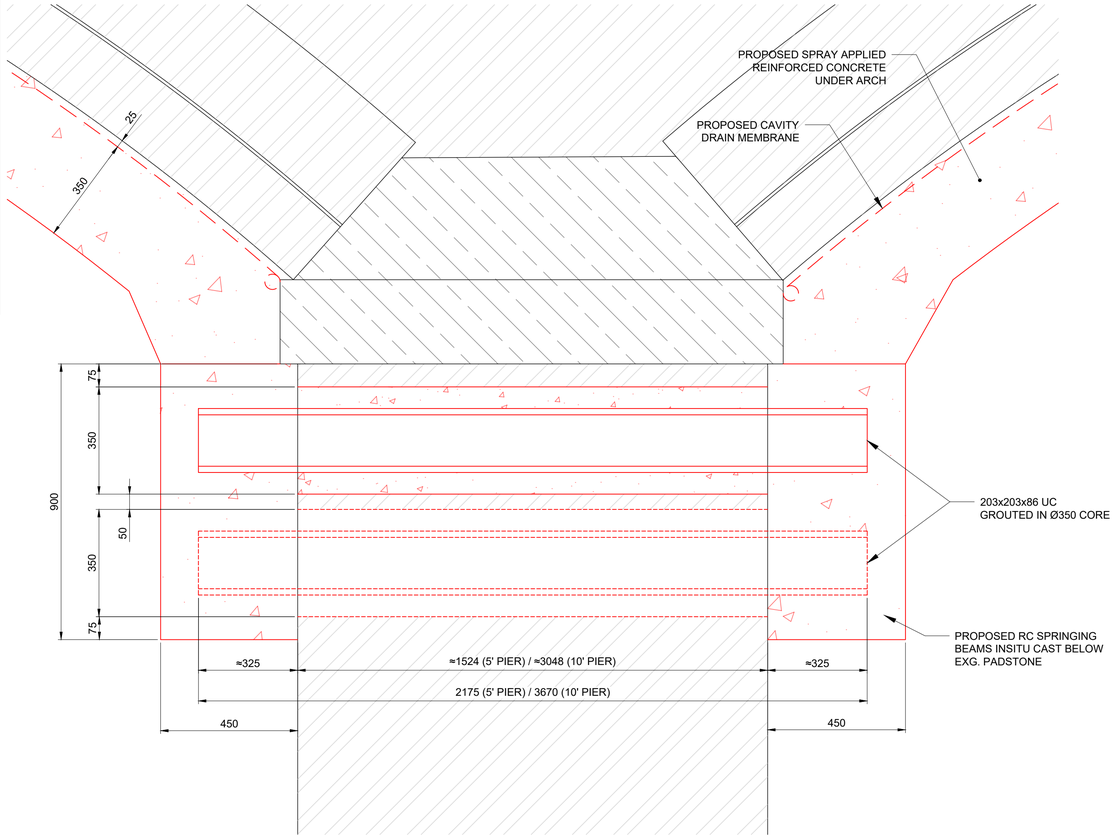
Drawing Title: PROPOSED TYPICAL TRANSVERSE SECTION ON ARCH

Designer	T PITCHFORTH	Signed T.Pitchforth	Date 01/05/2026
Drawn	M WILLIAMS	Signed	Date 01/05/2026
Checked	A HORNE	Signed	Date XX/XX/XXXX
Endorsed By CEM	A HORNE	Signed	Date XX/XX/XXXX

Scale(s) at A1 Sheet Size A1 594 x 841: 1:5, 1:25
ELR & Mileage: COL 189mi 0798yd - 0852yd

Drawing Number: 188989-WDC-CIV-DWG-203
Revision: P01

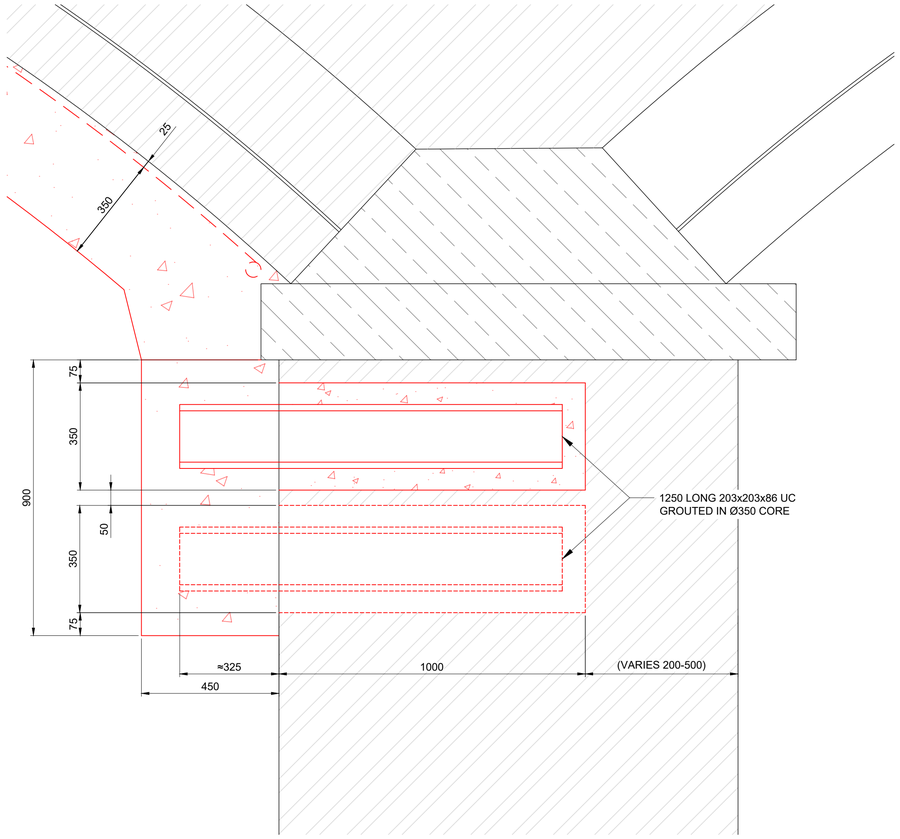
Drawing Number
188989-WDC-CIV-DWG-204



DETAIL OF PROPOSED NEEDLE UC SPRINGING BEAM

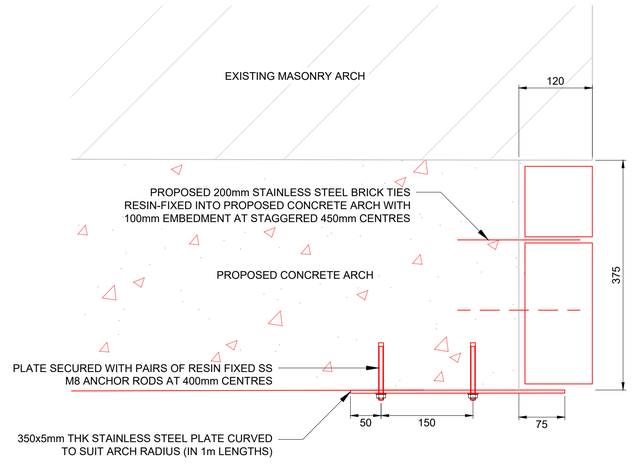
SCALE: 1:10

PROPOSED UC SPRINGING BEAM QUANTITIES:
- SOCKETED: 45No.
- NEEDLE (5' PIER): 62No.
- NEEDLE (10' PIER): 9No.



DETAIL OF PROPOSED SOCKETED UC SPRINGING BEAM

SCALE: 1:10



BRICK CLADDING TO BE BONDED TO CONCRETE UNDER ARCH WITH RONABOND BEDDING MORTAR. TO BE USED IN CONJUNCTION WITH RONACRETE STANDARD PRIMER. BRICK CLADDING TO BE POINTED WITH COLOUR MATCHED LIME MORTAR.

PROPOSED BRICK CLADDING DETAIL

SCALE: 1:5

1250 1000 500 0 1000 2000 2500
ORIGINAL SCALE AT A1 - 1:25 ALL DIMENSIONS IN MILLIMETRES

250 100 0 100 200 300 400 500
ORIGINAL SCALE AT A1 - 1:5 ALL DIMENSIONS IN MILLIMETRES

Legend/Notes

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
2. DO NOT SCALE FROM THIS DRAWING.
3. THIS DRAWING IS BASED ON AVAILABLE NETWORK RAIL RECORD INFORMATION.
4. BRICKS FOR BRICK CLADDING ARE TO BE CLOSE MATCHES TO THE EXISTING STRUCTURE IN COLOUR AND SIZE. BRICK CLADDING IS TO BE POINTED WITH COLOUR MATCHED LIME MORTAR.

SPECIFICATIONS:

GROUT
RENDEROC LA55 BY FOSROC OR SIMILAR APPROVED WITH A MINIMUM COMPRESSIVE STRENGTH OF 50N/mm²

SPRAY CONCRETE
RENDEROC DSR OR SIMILAR APPROVED WITH MINIMUM COMPRESSIVE STRENGTH OF 40N/mm²

INSITU CAST CONCRETE
STRENGTH CLASS - C40/50
MAX AGGREGATE SIZE - 20mm
MINIMUM CEMENT CONTENT - 360kg/m³
MAX. W/C RATIO - 0.45

STEEL
MIN GRADE SJ355

Rev	Date	Description of Revisions	Drawn	Chkd	Appr
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Status: PRELIMINARY

Designers:
IDT - Works Delivery
Heaton Mersey
Unit C1
The Embankment
Heaton Mersey, Stockport
SK4 3GL

Project: COL VIADUCT STRENGTHENING (63-67)

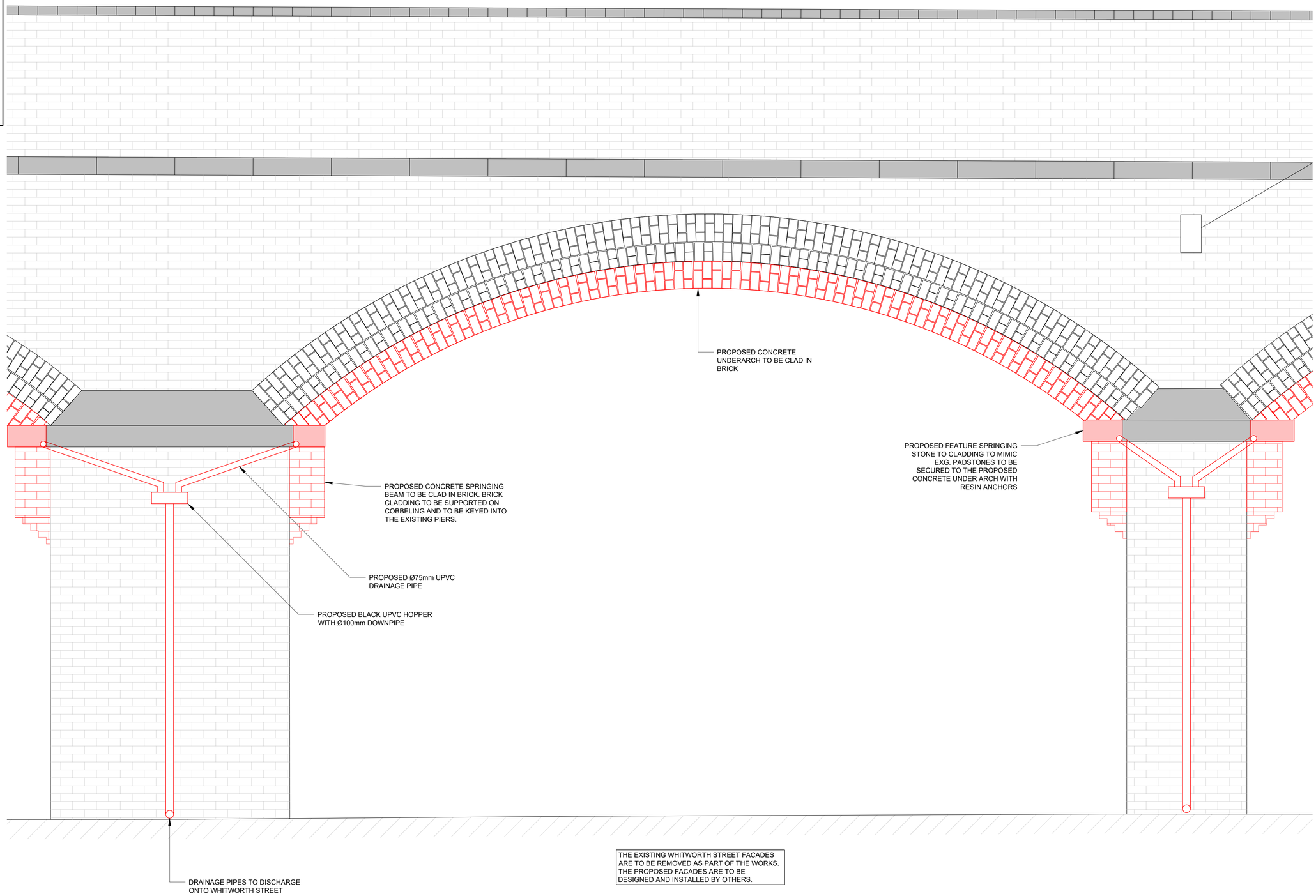
Drawing Title: PROPOSED DETAILS

Designer	T PITCHFORTH	Signed T.Pitchforth	Date 01/05/2026
Drawn	M WILLIAMS	Signed	Date 01/05/2026
Checked	A HORNE	Signed	Date XX/XX/XXXX
Endorsed By CEM	A HORNE	Signed	Date XX/XX/XXXX

Scale(s) at A1: 1:5, 1:25 — Sheet Size A1 594 x 841 — ELR & Mileage: COL 189mi 0798yd - 0852yd

Drawing Number: 188989-WDC-CIV-DWG-204 — Revision: P01

Drawing Number
188989-WDC-CIV-DWG-202



THE EXISTING WHITWORTH STREET FACADES ARE TO BE REMOVED AS PART OF THE WORKS. THE PROPOSED FACADES ARE TO BE DESIGNED AND INSTALLED BY OTHERS.

PROPOSED TYPICAL ELEVATION

SCALE: 1:25

1250 1000 500 0 1000 2000 2500
ORIGINAL SCALE AT A1 - 1:25 ALL DIMENSIONS IN MILLIMETRES

Legend/Notes

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
2. DO NOT SCALE FROM THIS DRAWING.
3. THIS DRAWING IS BASED ON AVAILABLE NETWORK RAIL RECORD INFORMATION.
4. BRICKS FOR BRICK CLADDING ARE TO BE CLOSE MATCHES TO THE EXISTING STRUCTURE IN COLOUR AND SIZE. BRICK CLADDING IS TO BE POINTED WITH COLOUR MATCHED LIME MORTAR.

Rev	Date	Description of Revisions	Drawn	Chkd	Appr
P01	27/05/26	PRELIMINARY	MW	TP	ADH

Status: PRELIMINARY

Designers

IDT - Works Delivery
Heaton Mersey
Unit C1
The Embankment
Heaton Mersey, Stockport
SK4 3GL

Project: COL VIADUCT STRENGTHENING (63-67)

Drawing Title: PROPOSED TYPICAL ELEVATION ON ARCH

Designer	T PITCHFORTH	Signed T.Pitchforth	Date 01/05/2026
Drawn	M WILLIAMS	Signed	Date 01/05/2026
Checked	A HORNE	Signed	Date XX/XX/XXXX
Endorsed By CEM	A HORNE	Signed	Date XX/XX/XXXX

Scale(s) at A1: Sheet Size A1 594 x 841
ELR & Mileage: COL 189mi 0798yd - 0852yd

Drawing Number: 188989-WDC-CIV-DWG-205
Revision: P01