

Advice Note

Project Mayfield Development
 Subject Phase 1 Highways Advise Note
 Project no 046688
 Date 22 October 2021

Revision	Description	Issued by	Date	Approved (signature)
00	For Information	JS	22/10/21	CB

1 Introduction

This advice note has been produced to:

- Provide information regarding the Section 278 and Traffic Regulations Order (TRO) processes with phasing, and
- Provide information regarding the Stopping Up process with phasing.

This note focusses on the highway related works within the Phase 1 planning boundary.

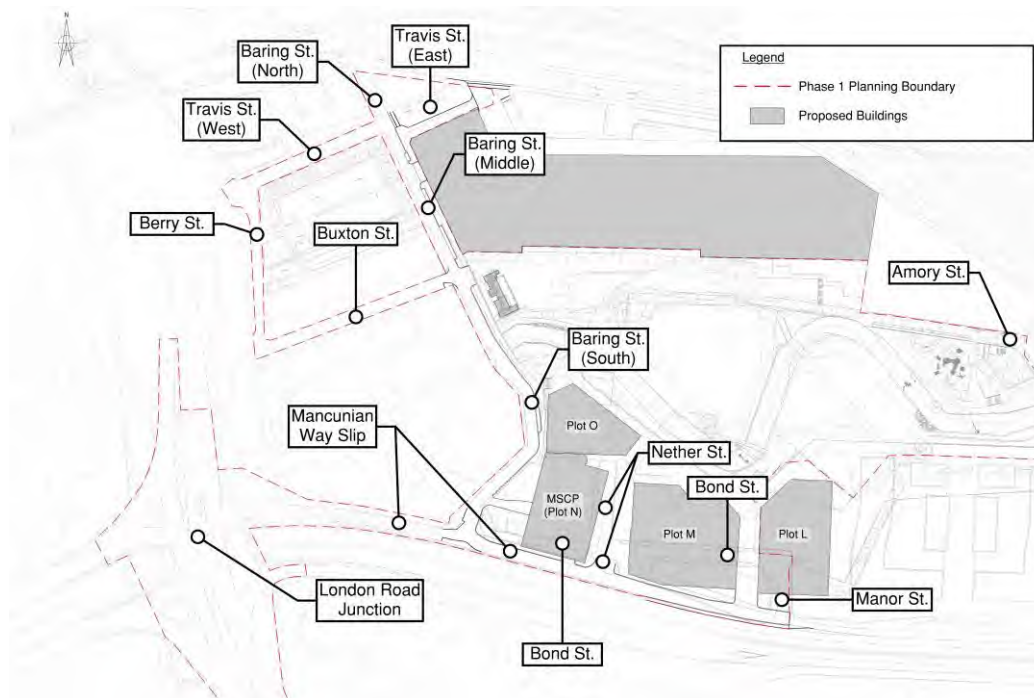


Figure 1—1 General Arrangement of Proposed Phase 1 Highway works

2 Section 278 and Traffic Regulations Order

2.1 Section 278 and TRO proposals

The general arrangement plans in Appendix A show the current design proposals for the Phase 1 highways excluding London Road junction. These drawings were submitted to MCC for review and have been updated post MCC review. Drawings still need to be submitted for TRO approval.

The London Road Junction design is currently undergoing an update from TfGM, post discussion with MCC.

To suit the U+I development and construction strategy, the Section 278 Highway works and TROs have been split up into the following phases in this note:

- Phase i – Prior to Plot N start on site (no works required)
- Phase ii – Prior to Plot N completion

Table 2—1 below provides a description of the Section 278 works and TROs required as well as the necessary completion phase for the works. Figure 2—1 indicates the location of the works and the phase.

Table 2—1 -Section 278 Highway Works and TROs

Location	Description of Works	Completion Date
London Road Junction	TRO – Revised traffic flow direction. Section 278 Highway Works – Kerb realignments and utility diversions (due to changes in cover depths) as required for TfGM's road alignment design.	Phase ii – Prior to Plot N completion.
Mancunian Way Slip	TRO – Changes to parking and loading bay configuration on western end Section 278 Highway Works – Construct traffic island at junction with Baring Street and align kerbs and paving to comply with MCC comments and planning consent. Exit to MSCP to be constructed.	Phase ii – Prior to Plot N completion
Baring Street (South)	TRO – Revision of traffic flow to one-way northbound. Inclusion of contraflow cycle lane. Section 278 Highway Works – Construct the loading bay by Plot O and make adjustments the junction with Mancunian Way. Make any kerb and gully realignments along Baring Street (South) where necessary for entrance into the MSCP. Construction provisions for cycle lane to separate cars from cyclists and provide uncontrolled crossing at the junction with Mancunian Way Slip.	Phase ii – Prior to Plot N completion
Buxton Street	TRO – Revision of traffic flow to one-way westbound. Changes to parking – provision of P&D bays and blue badge spaces. Section 278 Highway Works – Update uncontrolled crossing tactile paving and drop kerbs at junction with Berry Street	Phase ii – Prior to Plot N completion
Berry Street	TRO – Revision of traffic flow to one-way northbound from junction with Buxton Street north to junction with Travis Street. Section 278 Highway Works – Update uncontrolled crossing tactile paving and drop kerbs at junctions with Buxton Street and Travis Street	Phase ii – Prior to Plot N completion

Travis Street (West)	TRO – Controlled access, removal of P&D parking and provision of taxi ranks	Phase ii – Prior to Plot N completion
Baring Street (North)	TRO – Controlled access, and provision of taxi parking	Phase ii – Prior to Plot N completion
Baring Street Middle	POD required	Phase ii – Prior to Plot N completion
Travis Street	POD required	Phase ii – Prior to Plot N completion

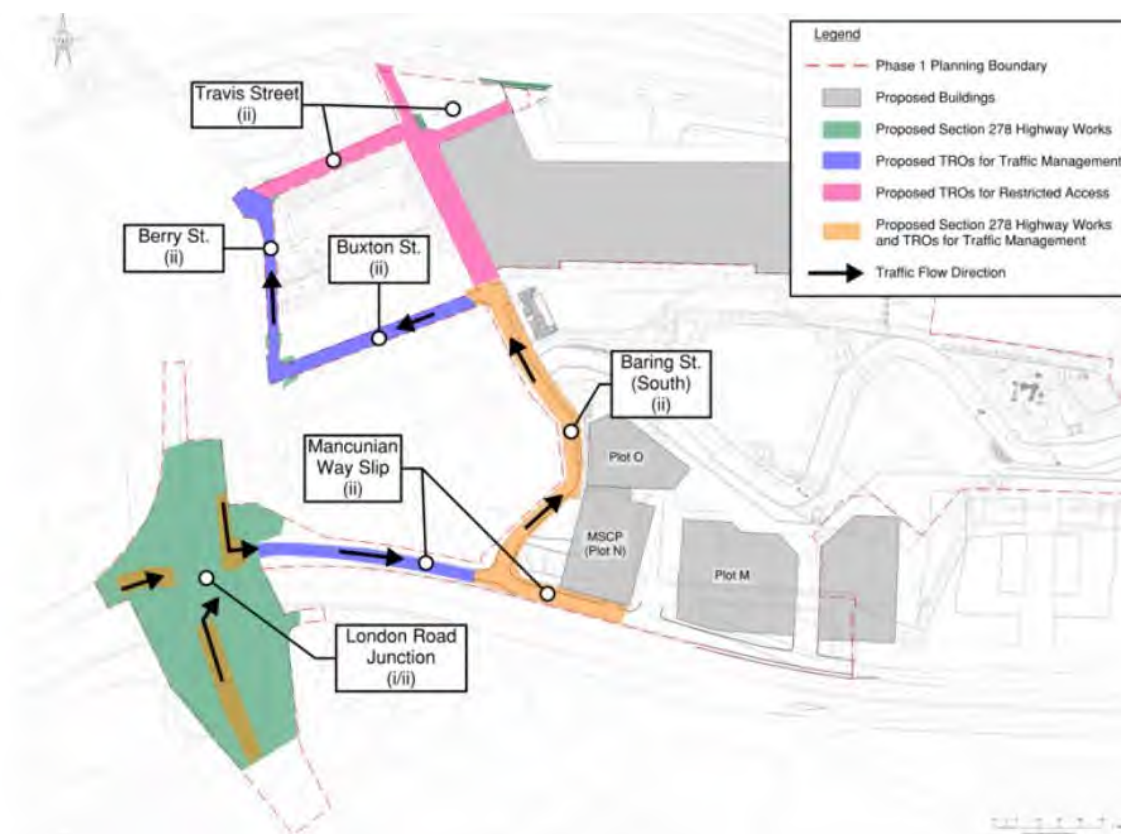


Figure 2—1 Section 278 and TRO Locations and Phasing

3 Stopping Up

3.1 Stopping Up Proposals

To suit the U+I development and construction strategy, the Stopping Up orders have been split up into the following phases in this note:

- Phase i – Prior to Plot N start on site
- Phase ii – Prior to Plot N completion
- Phase iii – Prior to Park completion

Table 3-1 below provides a description of the Stopping-up orders required and the necessary completion phase for the works. Figure 3—1 indicates the location of the works and the phase.

Table 3-1 – Currently Proposed Stopping-up Orders

Location	Description of Works	Completion Date
Mancunian Way Slip (East)	Stopping up of eastern end of Mancunian Way slip. To include relocation of one lighting column. To switch to private road.	Phase ii – Prior to Plot N start on site
Bond Street	Stopping up of street. Area required for construction of plot M and MSCP.	Phase i – Prior to Plot N start on site – currently dealt with under a temporary stopping up
Nether Street	Stopping up of street. Area required for construction of plot M and MSCP.	Phase i – Prior to Plot N start on site– currently dealt with under a temporary stopping up
Manor Street	Stopping up of street. To switch to private road.	Phase i – Prior to Plot N start on site– currently dealt with under a temporary stopping up
Amory Street	Stopping up of street. To switch to park.	Phase ii – Prior to park completion.

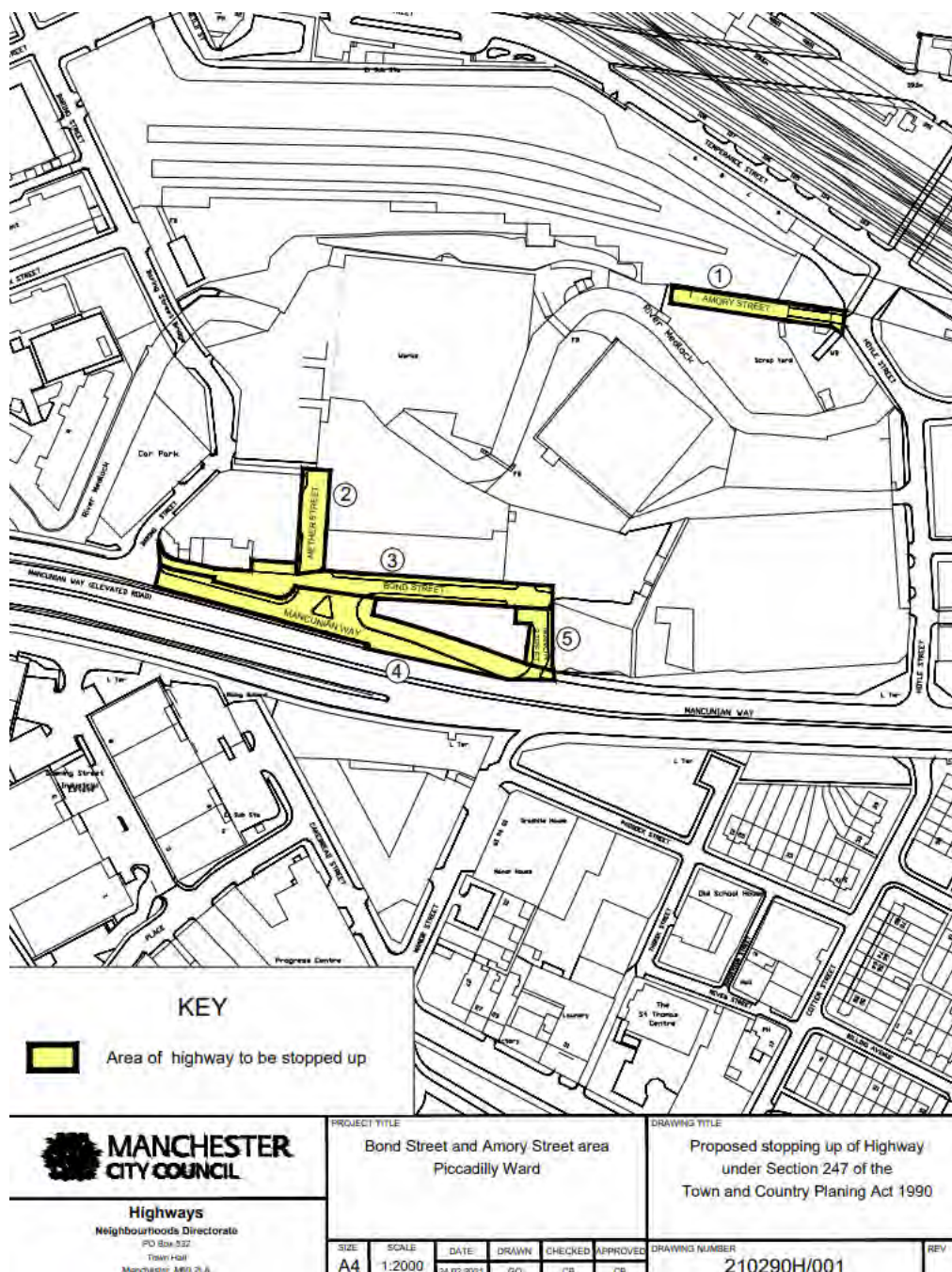
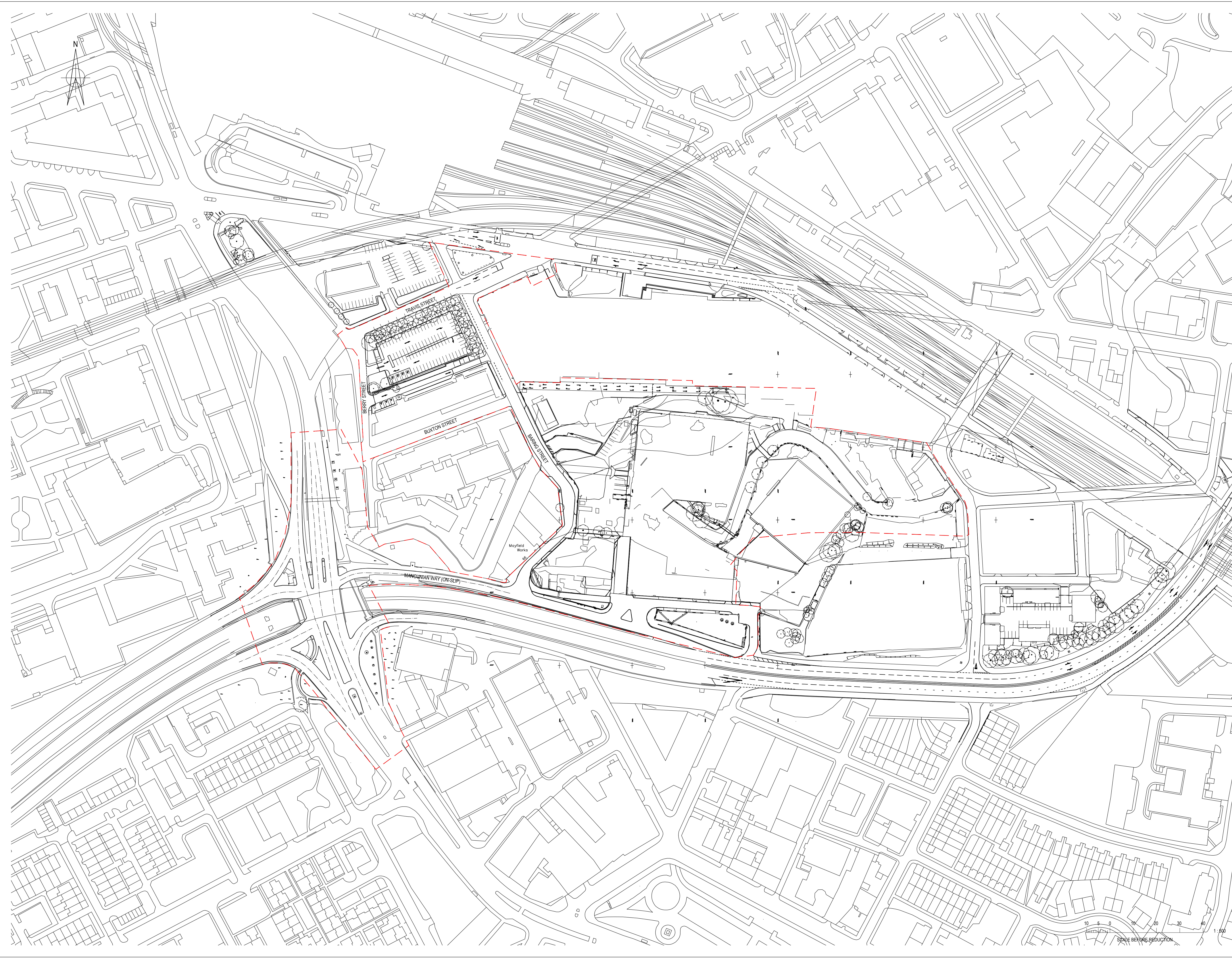


Figure 3—1 Proposed Stopping-up Locations (MCC approved plan)

Appendix A – General Arrangement Plans Submitted to MCC



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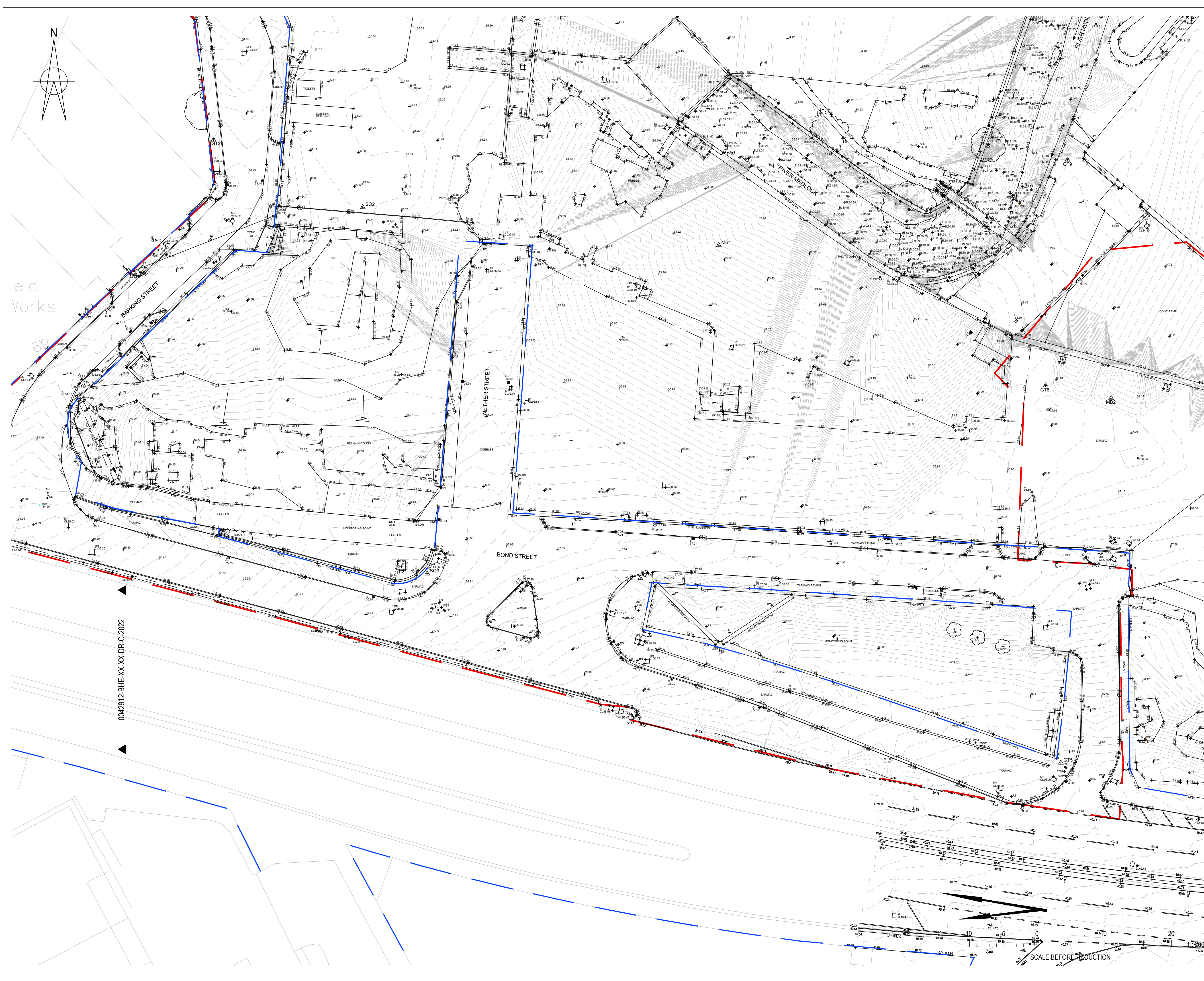
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Architect: SEW
Project: **MAYFIELD DEVELOPMENT PARTNERSHIP**
Prog Title: **HIGHWAY WORK
SITE LOCATION PLAN**

Scales@A1: 1:100	Job No: 0042912
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Architect **SEW**
Project **MAYFIELD DEVELOPMENT PARTNERSHIP**
Drg Title **HIGHWAY WORKS
EXISTING TOPOGRAPHICAL SURVEY
MANCUNIAN WAY SLIP EAST**

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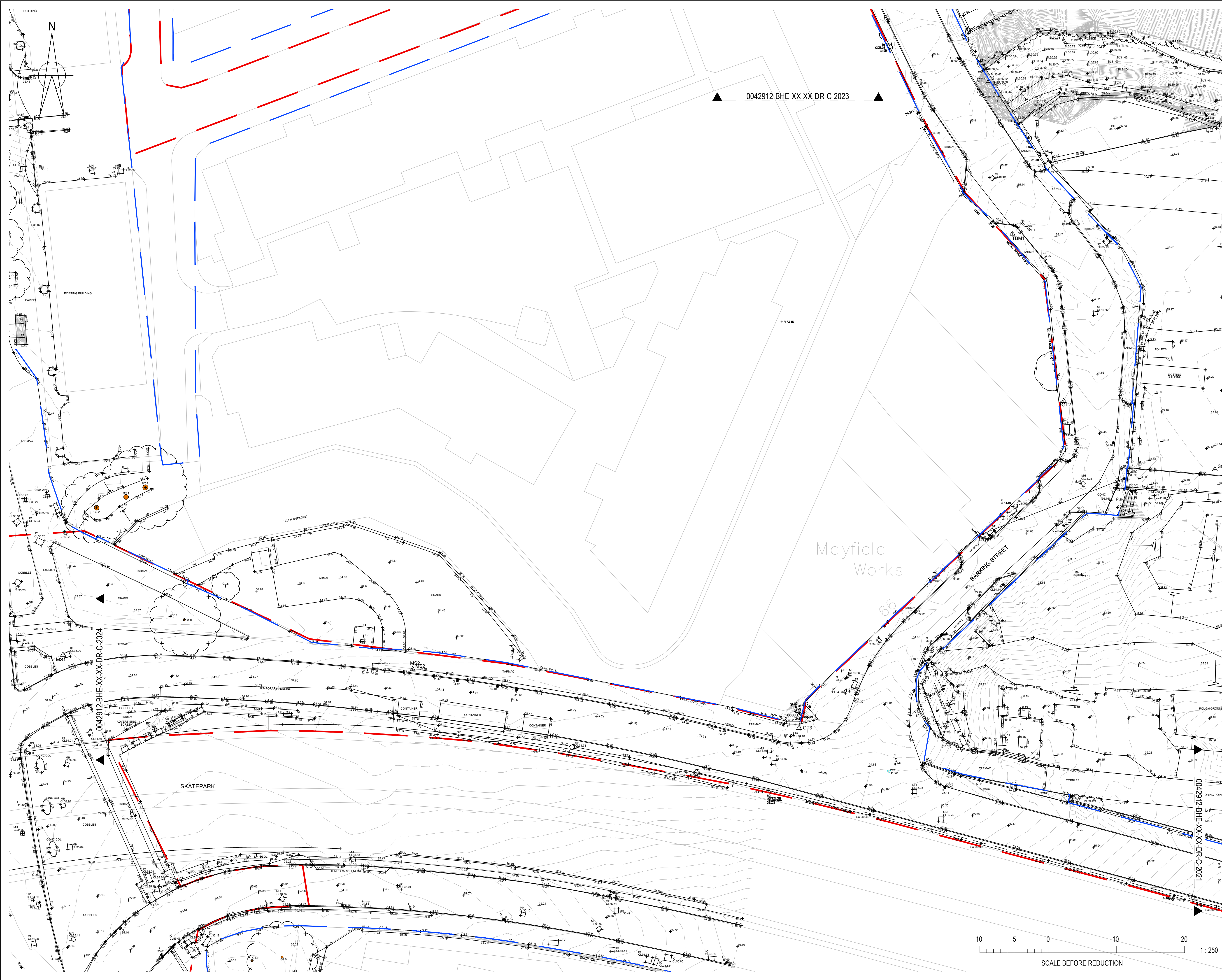
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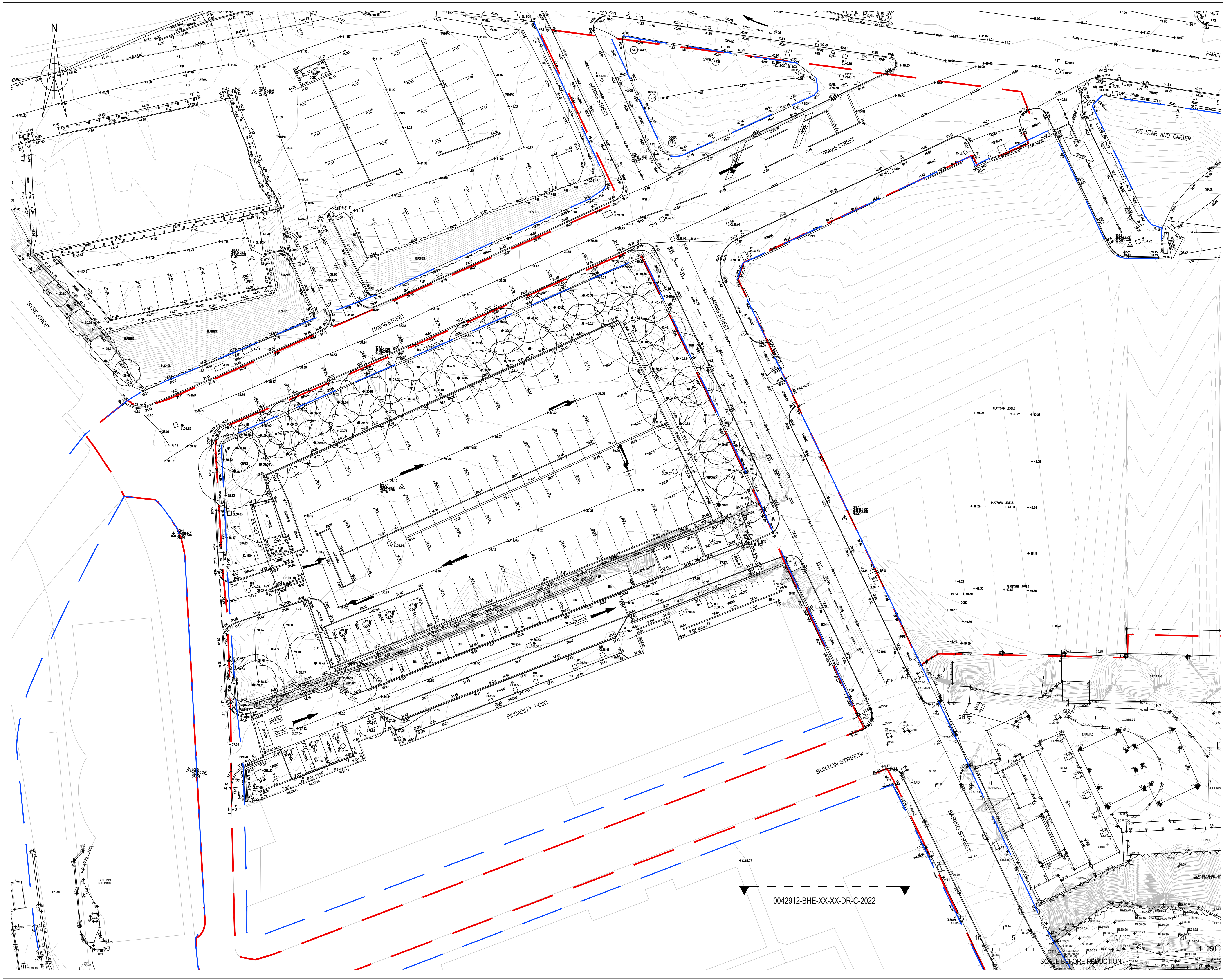
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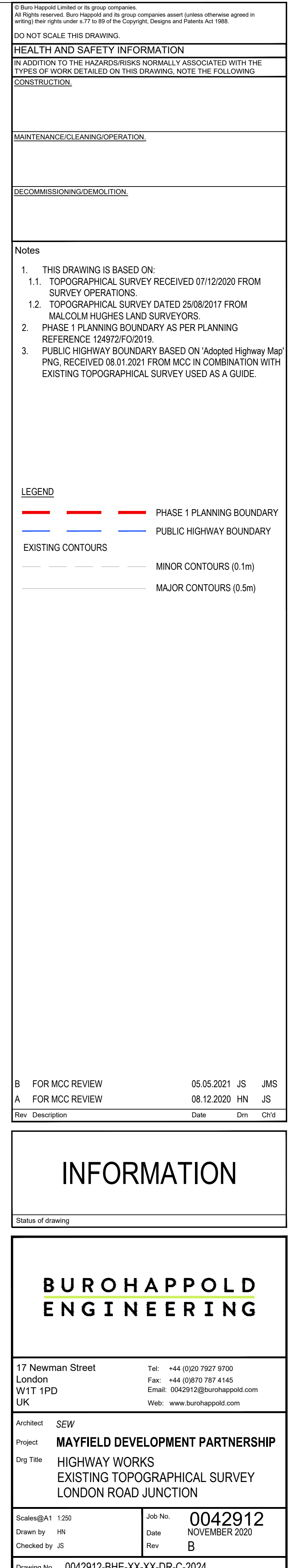
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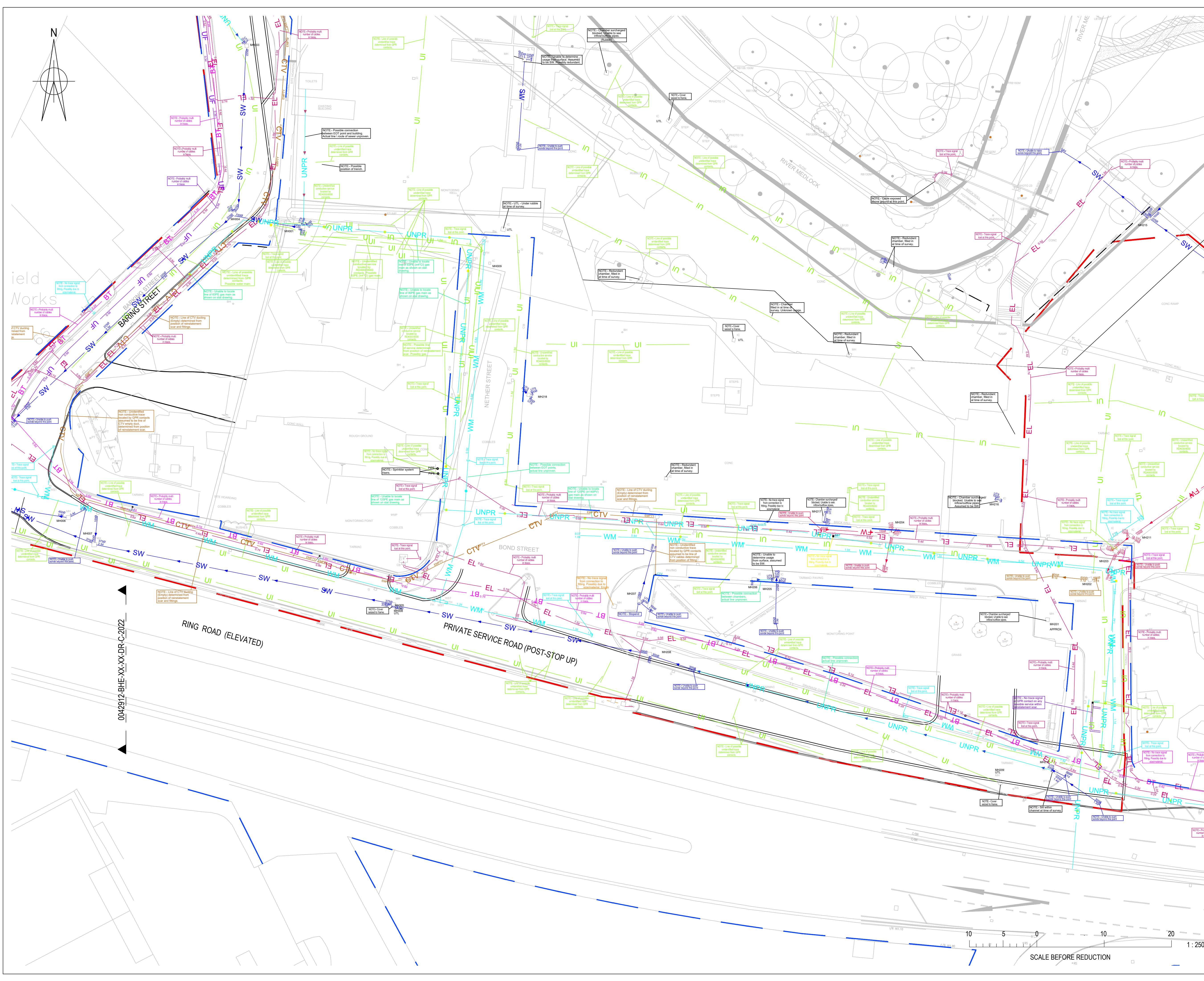
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FW FOUL WATER DRAINAGE
WM POTABLE WATER
GM GAS
EL ELECTRICAL CABLES
DUCT CABLE DUCTING
BT OPENREACH (UNDERGROUND)
CTV CABLE TV
CCTV CLOSED CIRCUIT TV
UF OTHER TELECOMS
UI UNIDENTIFIED FEATURE
UP UNIDENTIFIED PIPE
UC UNIDENTIFIED CABLE
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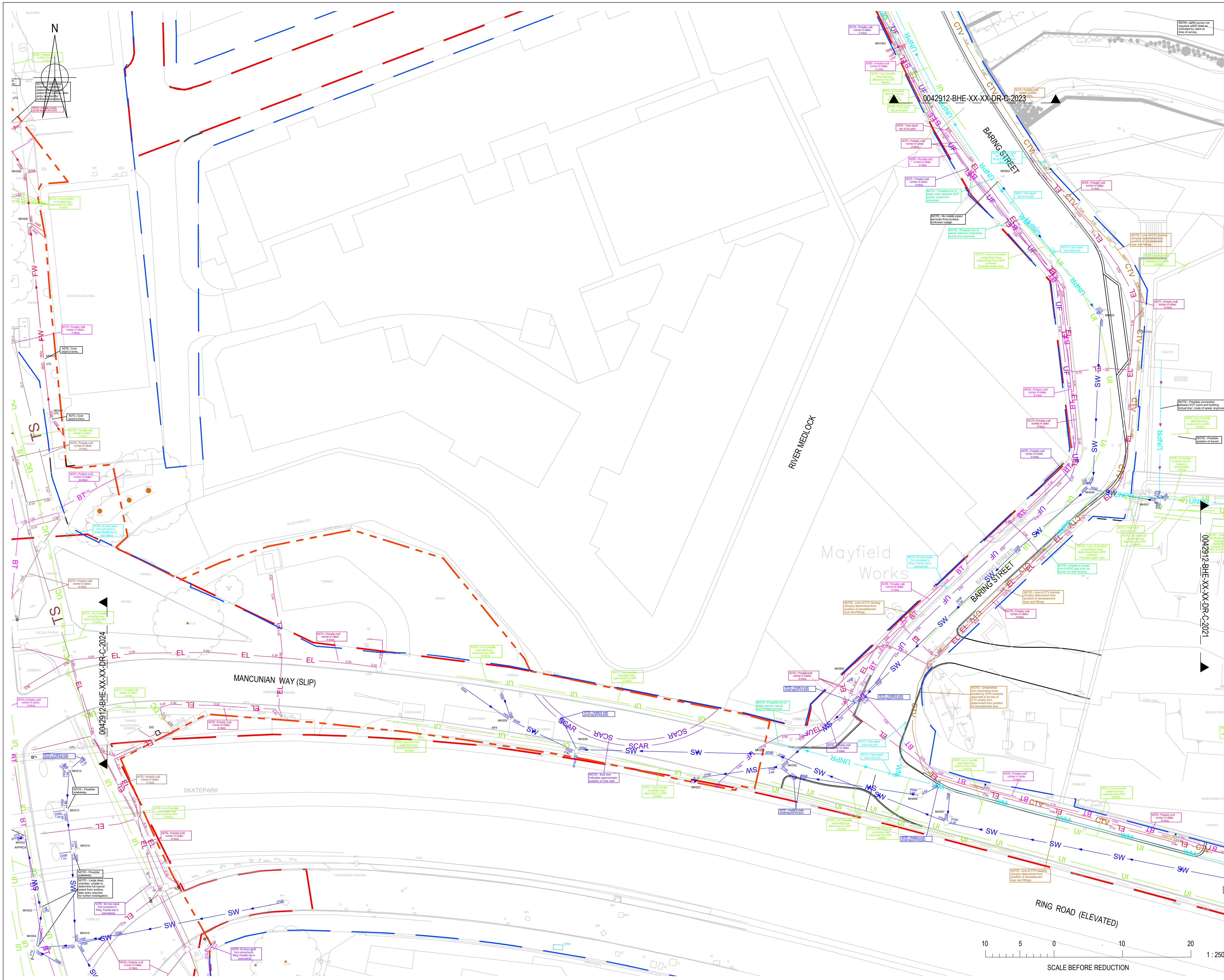
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- | | | |
|---|-------------|-------------------------|
|  | SW | STORM WATER DRAINAGE |
|  | FW | FOUL WATER DRAINAGE |
|  | WM | POTABLE WATER |
|  | GM | GAS |
|  | EL | ELECTRICAL CABLES |
|  | DUCT | CABLE DUCTING |
|  | BT | OPENREACH (UNDERGROUND) |
|  | CTV | CABLE TV |
|  | CCTV | CLOSED CIRCUIT TV |
|  | UF | OTHER TELECOMS |
|  | UI | UNIDENTIFIED FEATURE |
|  | UP | UNIDENTIFIED PIPE |
|  | UC | UNIDENTIFIED CABLE |
|  | UNPR | UNPROVEN FEATURE |

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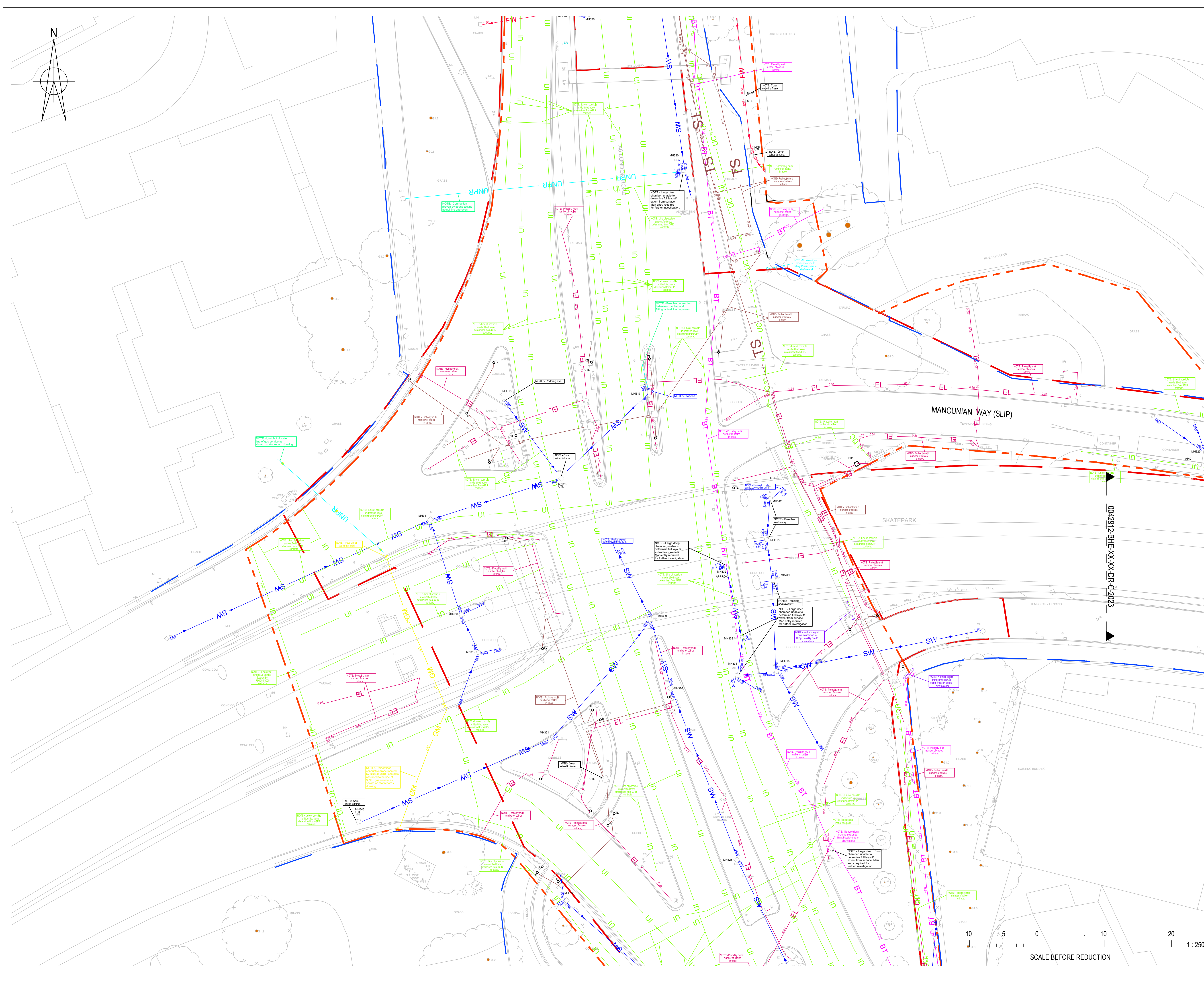
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WM POTABLE WATER
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EL ELECTRICAL CABLES
DUCT CABLE DUCTING
BT OPENREACH (UNDERGROUND)
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UI UNIDENTIFIED FEATURE
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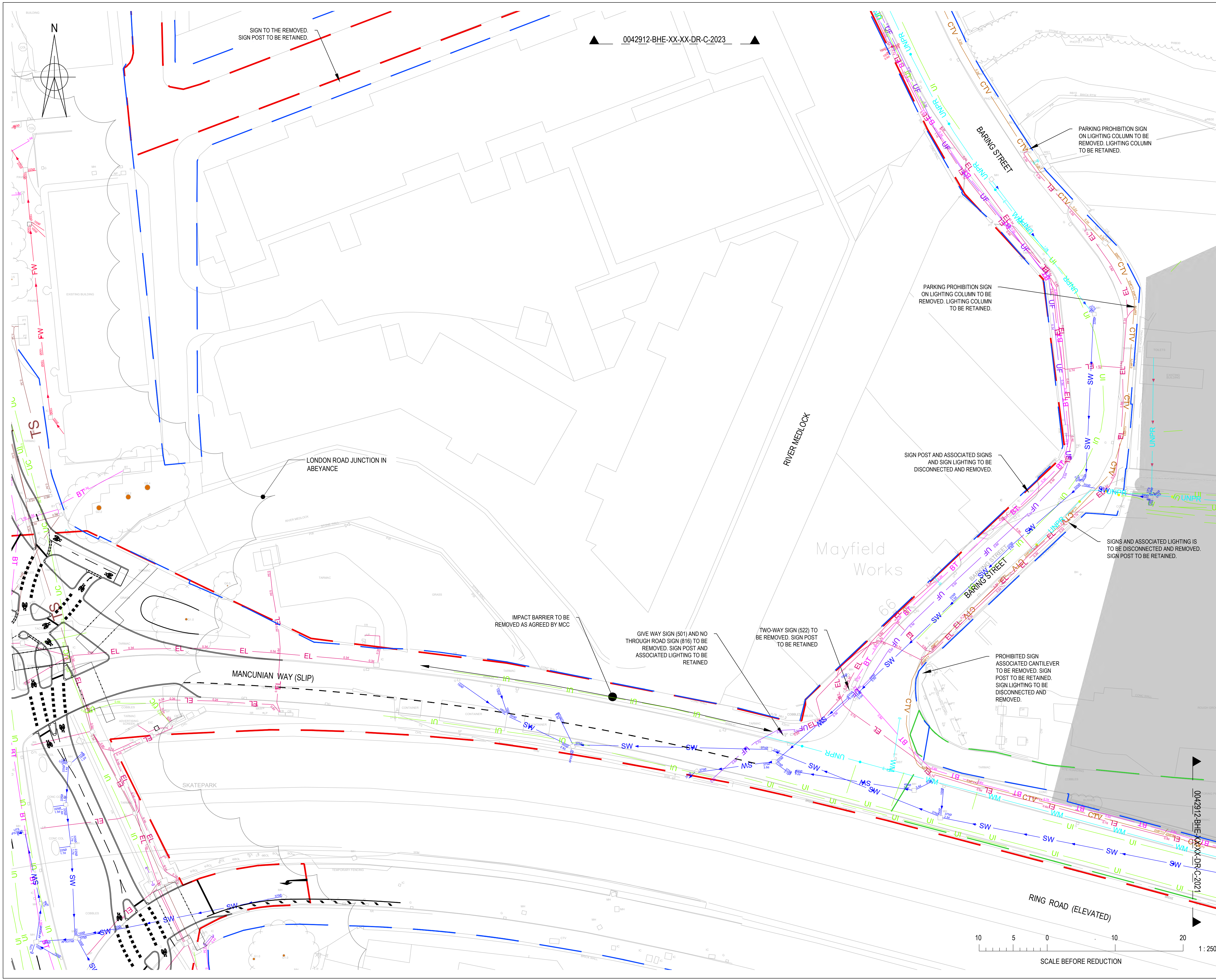
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Architect SEW
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Drg Title HIGHWAY WORKS
EXISTING UTILITIES PLAN
LONDON ROAD JUNCTION

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4. ANY WORKS ASSOCIATED WITH LIGHTING TO BE CONFIRMED WITH PFI CONTRACTOR, AMEY.
5. EXISTING HIGHWAY DRAINAGE (GULLIES AND LATERAL DRAINS) IN AREAS OF STOPPING UP TO BE DISCONNECTED FROM EXISTING HIGHWAY DRAINAGE NETWORK.
6. CONTRACTOR TO CONFIRM UTILITY AND DRAINAGE TO BE REMOVED OR DIVERTED WITH RELEVANT UTILITY / DRAINAGE ASSET OWNER IF REQUIRED.
7. BEFORE REMOVAL OF ANY DRAINAGE RUNS, GULLIES, MANHOLES AND CHAMBERS, CCTV SURVEY TO BE CARRIED OUT ALONG DISCONNECTED RUNS.
8. CONTRACTOR TO ALLOW FOR AN ASSUMED 300mm OF GROUND SURFACE STRIP AND REMOVAL.

LEGEND
--- PHASE 1 PLANNING BOUNDARY
--- PROPOSED STOPPING UP BOUNDARY
--- PROPOSED BUILDING AREA
--- PUBLIC HIGHWAY BOUNDARY

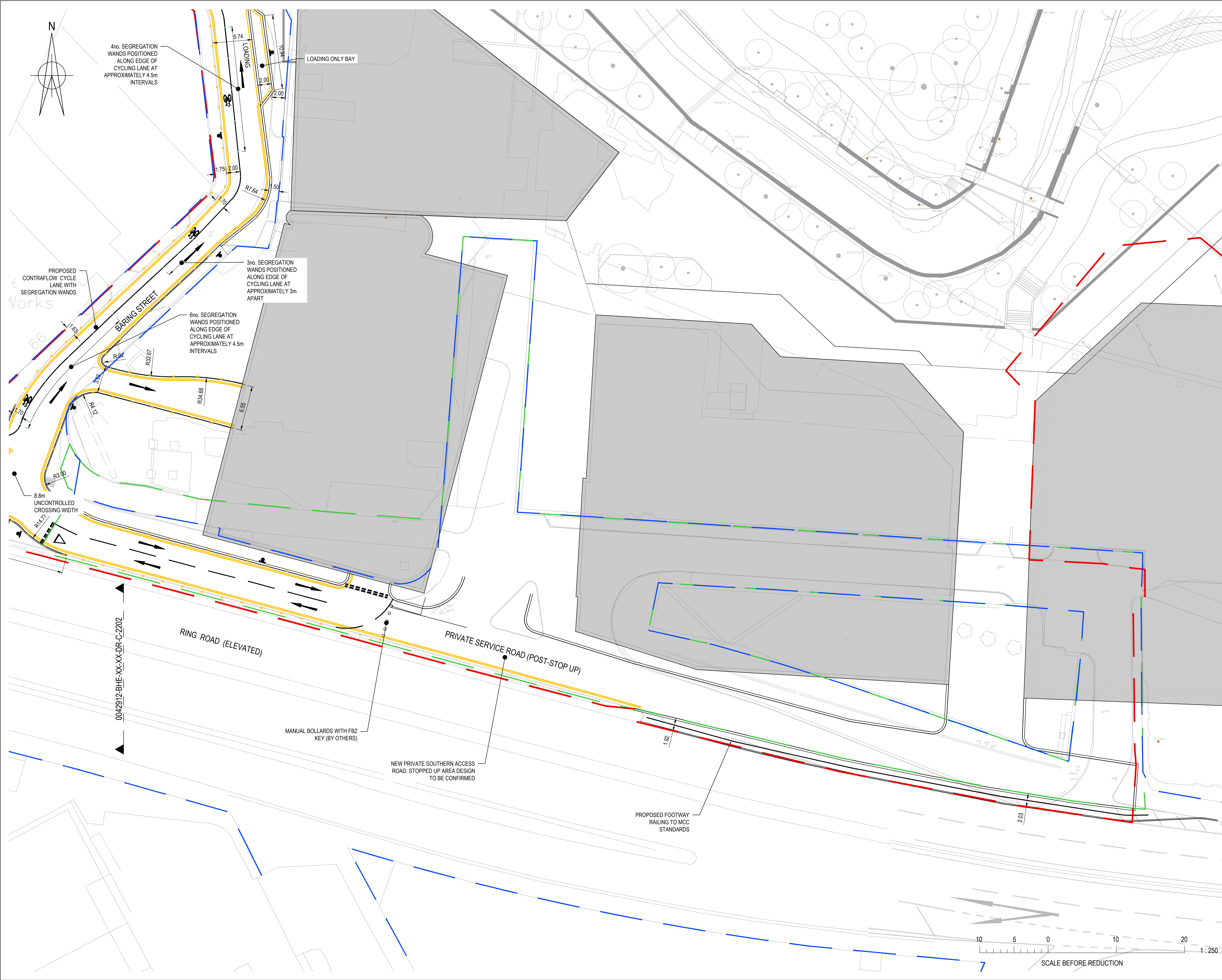
EXISTING UTILITIES
SW STORM WATER DRAINAGE
FW FOUL WATER DRAINAGE
WM POTABLE WATER
GM GAS
EL ELECTRICAL CABLES
DUCT CABLE DUCTING
BT OPENREACH (UNDERGROUND)
CTV CABLE TV
CCTV CLOSED CIRCUIT TV
UF OTHER TELECOMS
UI UNIDENTIFIED FEATURE
UP UNIDENTIFIED PIPE
UC UNIDENTIFIED CABLE
UNPR UNPROVEN FEATURE

B	FOR MCC REVIEW	05.05.2021	JS	JMS
A	FOR MCC REVIEW	08.12.2020	HN	JS
Rev	Description	Date	Drn	Chd

INFORMATION
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17 Newman Street London W1T 1PD UK	Tel: +44 (0)20 7927 9700 Fax: +44 (0)870 787 4145 Email: 0042912@burohappold.com Web: www.burohappold.com
Architect SEW Project MAYFIELD DEVELOPMENT PARTNERSHIP Drg Title HIGHWAY WORKS PROPOSED SITE CLEARANCE MANCUNIAN WAY SLIP WEST	
Scales@A1 1:250 Drawn by HN Checked by JS	Job No. 0042912 Date NOVEMBER 2020 Rev B
Drawing No. 0042912-BHE-XX-XX-DR-C-2102	



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Notes
1. THIS DRAWING IS BASED ON:
1.1. ARCHITECT'S PLAN 0345-SEW-ZZ-00-DR-L-007102 RECEIVED FROM SEW ON 16/11/2020; AND
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1.4. LAYOUT OF LONDON ROAD JUNCTION FROM TRANSPORT FOR GREATER MANCHESTER RECEIVED 26/03/21.
2. PHASE 1 PLANNING BOUNDARY AS PER PLANNING REFERENCE 124972/FOI/2019.
3. PUBLIC HIGHWAY BOUNDARY BASED ON 'Adopted Highway Map' PNG, RECEIVED 08.01.2021 FROM MCC IN COMBINATION WITH EXISTING TOPOGRAPHICAL SURVEY USED AS A GUIDE.
4. ALL GULLY GRATINGS, MANHOLE COVERS AND INSPECTION CHAMBER COVERS TO BE RAISED TO PROPOSED LEVELS WHERE LEVEL ALTERATIONS ARE PROPOSED.

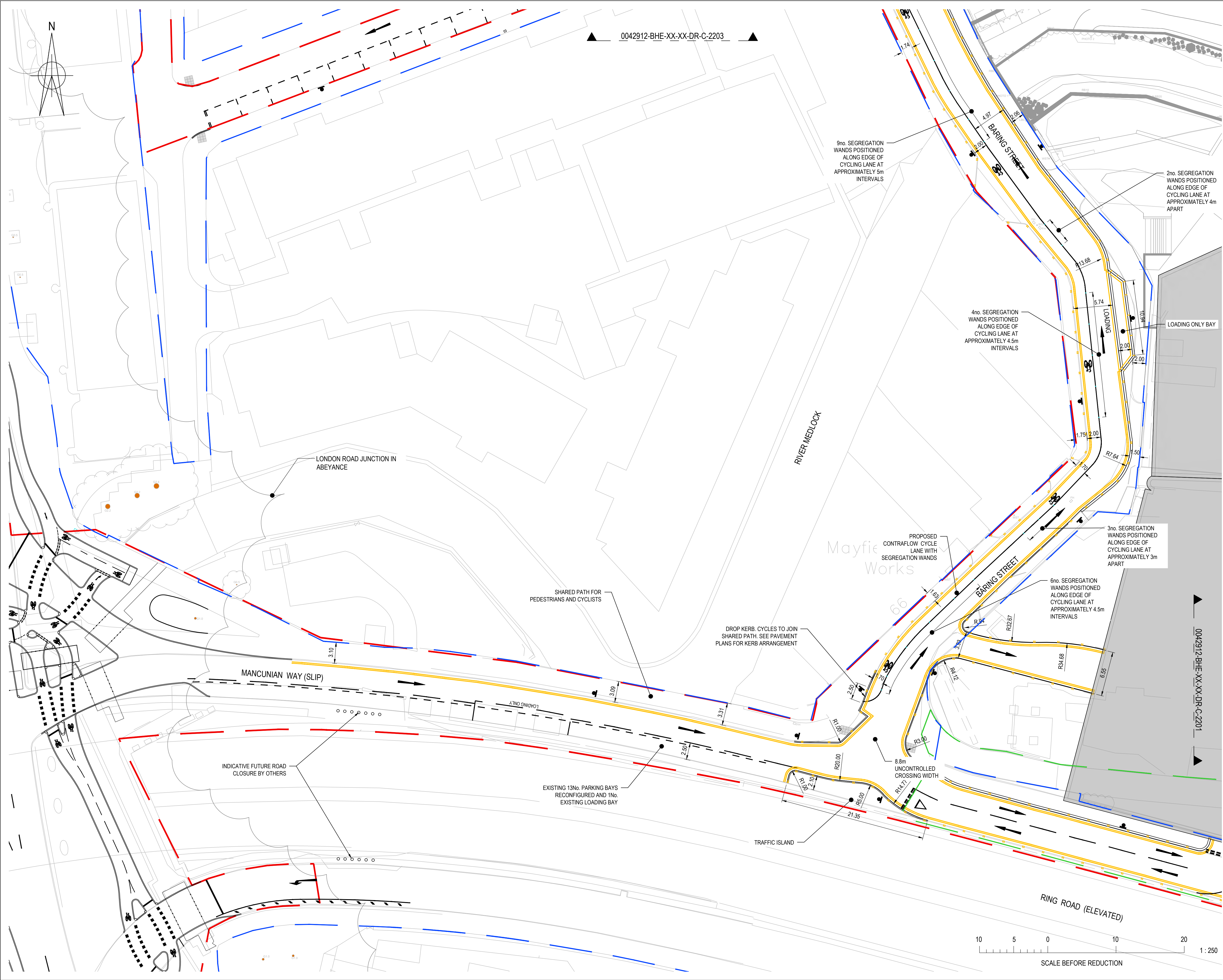
LEGEND
--- PHASE 1 PLANNING BOUNDARY
--- PROPOSED STOPPING UP BOUNDARY
--- PROPOSED BUILDING AREA
--- PUBLIC HIGHWAY BOUNDARY

B	FOR MCC REVIEW	05.05.2021	JS	JMS
A	FOR MCC REVIEW	08.12.2020	HN	JS
Rev	Description	Date	Dm	Chd

INFORMATION
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Architect Project Dig Title	SEW MAYFIELD DEVELOPMENT PARTNERSHIP HIGHWAY WORKS GENERAL ARRANGEMENT PLAN MANCUNIAN WAY SLIP EAST
Scale@A1 Drawn by Checked by	1:250 HN JS
Job No. Date Rev	0042912 NOVEMBER 2020 B
Drawing No: 0042912-BHE-XX-XX-DR-C-2201	



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DECOMMISSIONING/DEMOLITION.

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LEGEND
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--- PROPOSED STOPPING UP BOUNDARY
--- PROPOSED BUILDING AREA
--- PUBLIC HIGHWAY BOUNDARY

Rev Description Date Dm Cnd
B FOR MCC REVIEW 05.05.2021 JS JMS
A FOR MCC REVIEW 08.12.2020 HN JS

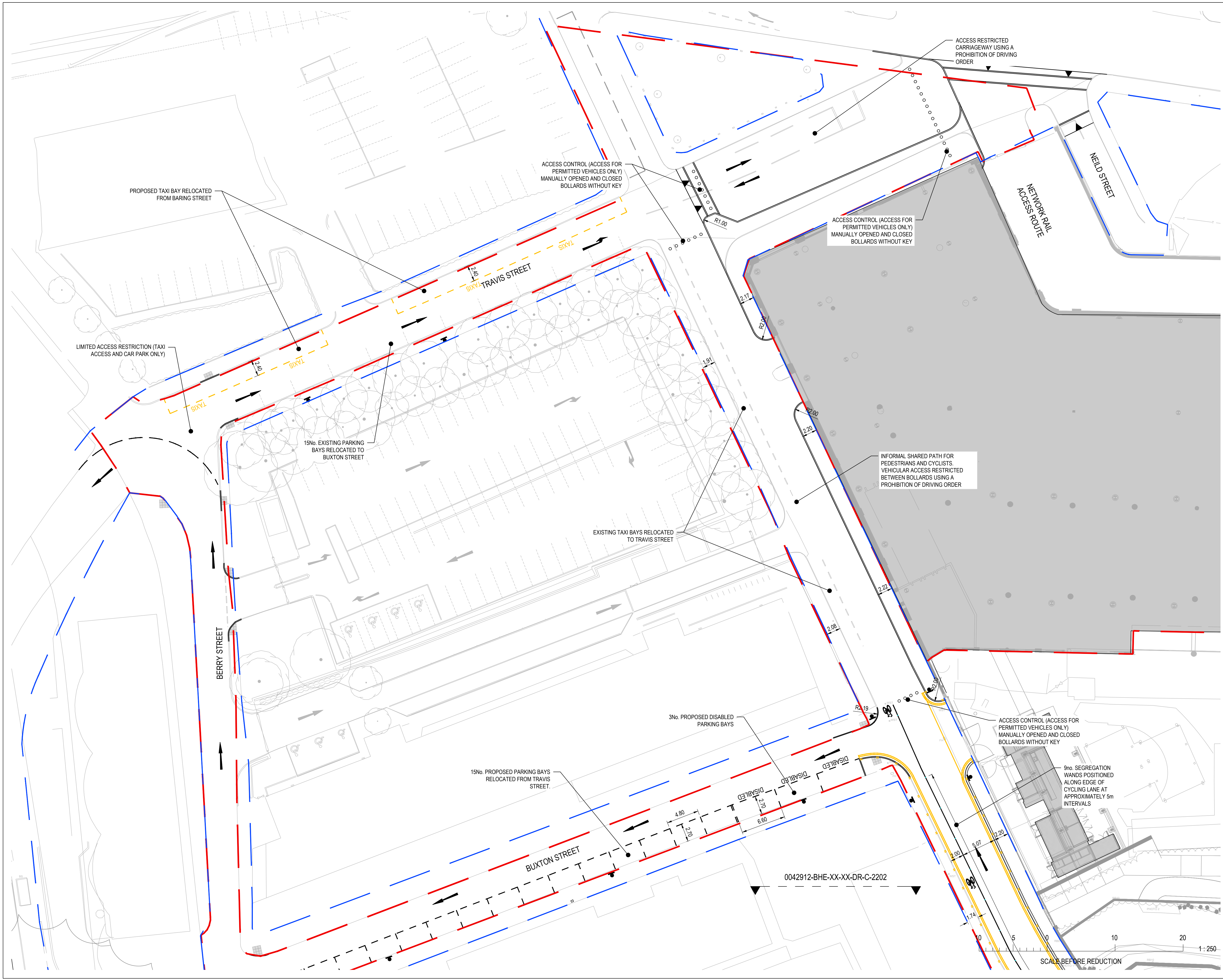
INFORMATION
Status of drawing

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Architect **SEW**
Project **MAYFIELD DEVELOPMENT PARTNERSHIP**
Drg Title **HIGHWAY WORKS
GENERAL ARRANGEMENT PLAN
MANCUNIAN WAY SLIP WEST**

Scale: A1 1:250
Drawn by HN
Checked by JS
Job No. **0042912**
Date **NOVEMBER 2020**
Rev **B**

Drawing No. **0042912-BHE-XX-XX-DR-C-2202**



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3. PUBLIC HIGHWAY BOUNDARY BASED ON 'Adopted Highway Map' PNG, RECEIVED 08.01.2021 FROM MCC IN COMBINATION WITH EXISTING TOPOGRAPHICAL SURVEY USED AS A GUIDE.
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LEGEND
--- PHASE 1 PLANNING BOUNDARY
--- PROPOSED STOPPING UP BOUNDARY
--- PROPOSED BUILDING AREA
--- PUBLIC HIGHWAY BOUNDARY

B	FOR MCC REVIEW	05.05.2021	JS	JMS
A	FOR MCC REVIEW	08.12.2020	HN	JS

Rev	Description	Date	Dm	Ctd

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Status of drawing

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Architect Project Dig Title	SEW MAYFIELD DEVELOPMENT PARTNERSHIP HIGHWAY WORKS GENERAL ARRANGEMENT PLAN BARING, BUXTON & TRAVIS STREETS
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Scales@A1 Drawn by Checked by	1:250 HN JS	Job No. Date Rev	0042912 NOVEMBER 2020 B
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Drawing No: 0042912-BHE-XX-XX-DR-C-2203

Join: Source: C:\002912\Mayfield Part 1\Manchester Illustration\08 - Illustration - Buxton & Travis Streets\0042912-BHE-XX-XX-DR-C-2203.dwg



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2. PHASE 1 PLANNING BOUNDARY AS PER PLANNING REFERENCE 124972/FO/2019.
3. STOPPING UP ORDER CURRENTLY UNDER DISCUSSIONS WITH MANCHESTER CITY COUNCIL.
4. EXTENT OF STOPPING UP AREA BASED ON ADOPTED HIGHWAY BOUNDARY INFORMATION FROM 'Adopted Highway Map' PNG, RECEIVED 08.01.2021 IN COMBINATION WITH EXISTING TOPOGRAPHICAL SURVEY USED AS A GUIDE.

LEGEND
- - - PHASE 1 PLANNING BOUNDARY
[Green Shaded Area] PROPOSED STOPPING UP
[Grey Shaded Area] PROPOSED BUILDING AREA

B	FOR MCC REVIEW	05.05.2021	JS	JMS
A	FOR MCC REVIEW	08.12.2020	HN	JS

Rev	Description	Date	Dm	Chd

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Status of drawing

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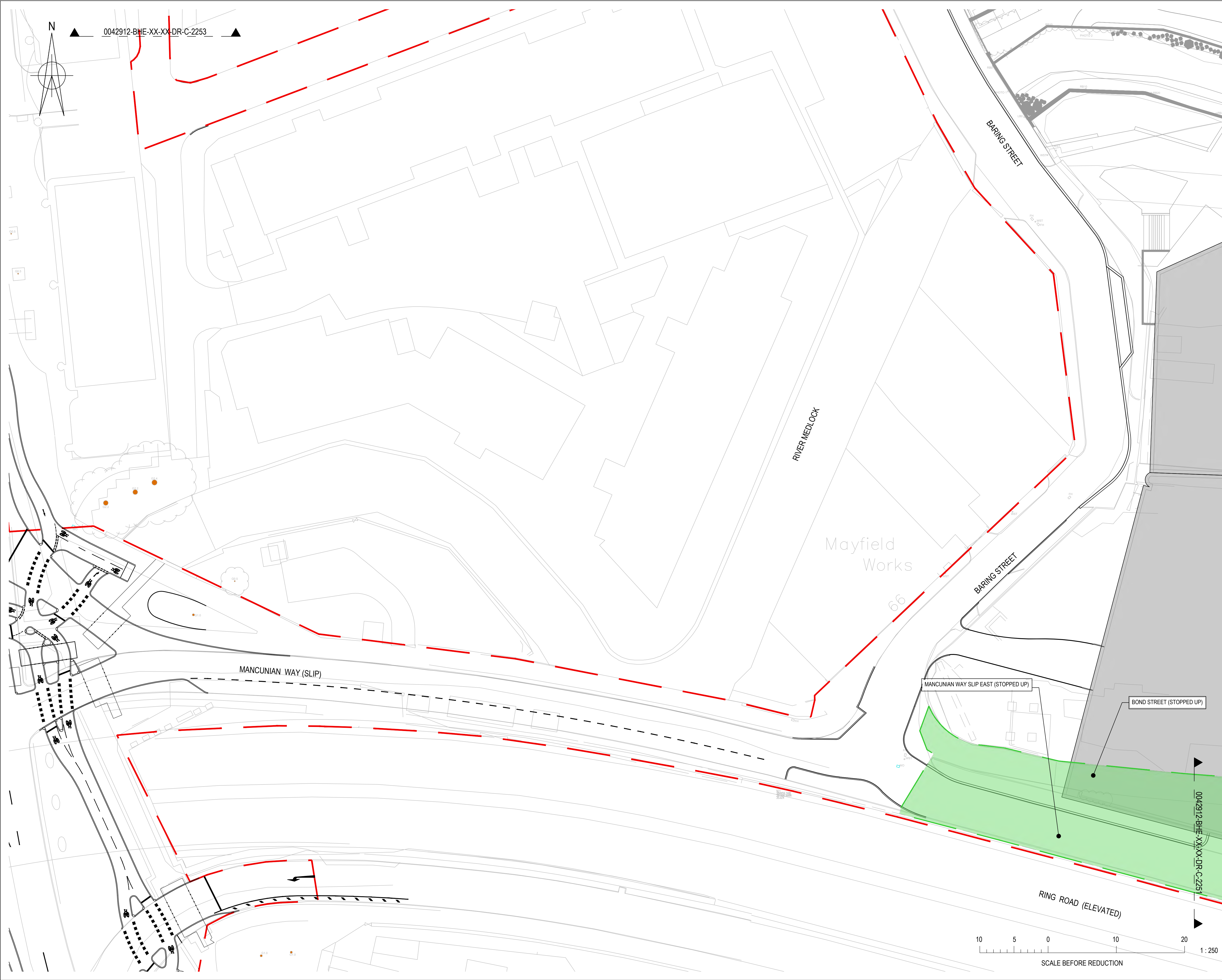
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Architect **SEW**
Project **MAYFIELD DEVELOPMENT PARTNERSHIP**
Dwg Title **HIGHWAY WORKS
STOPPING UP / OFFERING UP PLAN
MANCUNIAN WAY SLIP EAST**

Scales@A1	1:250	Job No.	0042912
Drawn by	HN	Date	NOVEMBER 2020
Checked by	JS	Rev	B

Drawing No: 0042912-BHE-XX-XX-DR-C-2251



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- PHASE 1 PLANNING BOUNDARY AS PER PLANNING REFERENCE 124972/FO/2019.
- STOPPING UP ORDER CURRENTLY UNDER DISCUSSIONS WITH MANCHESTER CITY COUNCIL.
- EXTENT OF STOPPING UP AREA BASED ON ADOPTED HIGHWAY BOUNDARY INFORMATION FROM 'Adopted Highway Map' PNG, RECEIVED 08.01.2021 IN COMBINATION WITH EXISTING TOPOGRAPHICAL SURVEY USED AS A GUIDE.

LEGEND

- PHASE 1 PLANNING BOUNDARY
- PROPOSED STOPPING UP
- PROPOSED BUILDING AREA

B	FOR MCC REVIEW	05.05.2021	JS	JMS
A	FOR MCC REVIEW	08.12.2020	HN	JS
Rev	Description	Date	Dm	Chd

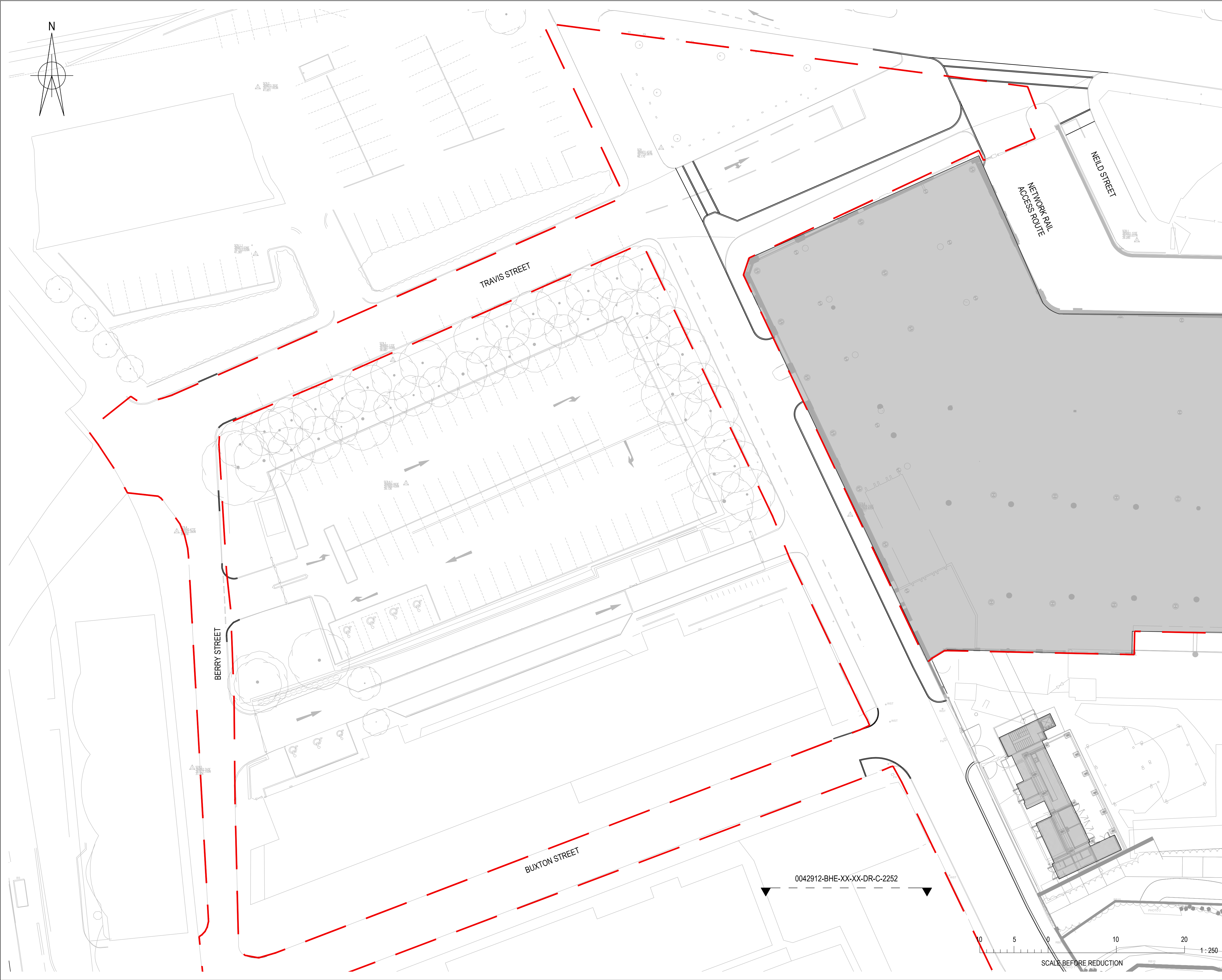
INFORMATION

Status of drawing

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Architect Project Dtg Title	SEW MAYFIELD DEVELOPMENT PARTNERSHIP HIGHWAY WORKS STOPPING UP / OFFERING UP PLAN MANCUNIAN WAY SLIP WEST
Scales@A1 Drawn by Checked by	1:250 HN JS
Job No. Date Rev	0042912 NOVEMBER 2020 B
Drawing No.	0042912-BHE-XX-XX-DR-C-2252

2020 Source: C:\0042912\Mayfield Part 1\Manchester Illustration\08 - Illustr12_Schematic002912-BHE-XX-XX-DR-C-22520024.dwg



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LEGEND
--- PHASE 1 PLANNING BOUNDARY
[Green Box] PROPOSED STOPPING UP
[Grey Box] PROPOSED BUILDING AREA

B	FOR MCC REVIEW	05.05.2021	JS	JMS
A	FOR MCC REVIEW	08.12.2020	HN	JS
Rev	Description	Date	Dm	Chd

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Status of drawing

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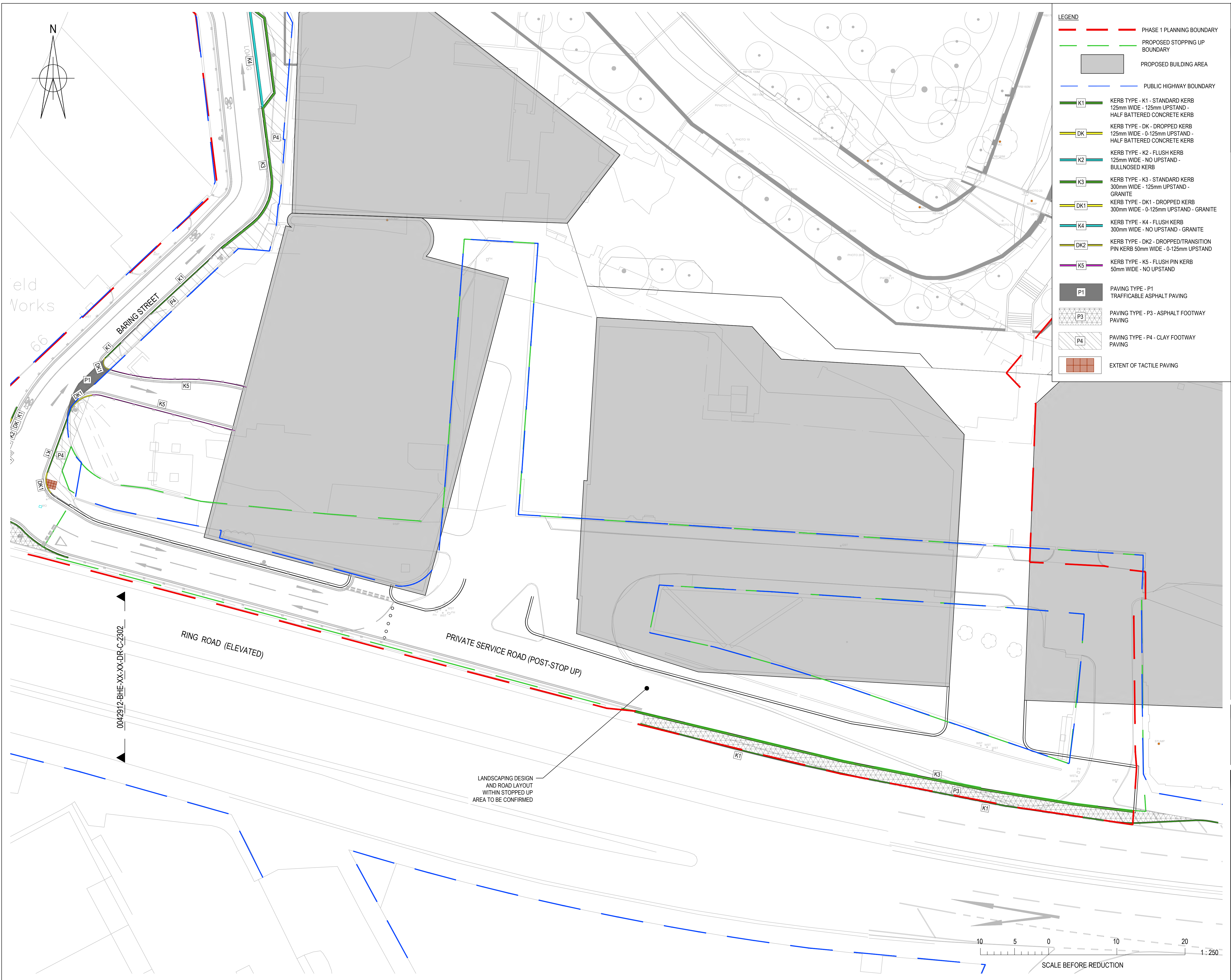
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Architect **SEW**
Project **MAYFIELD DEVELOPMENT PARTNERSHIP**
Dwg Title **HIGHWAY WORKS
STOPPING UP / OFFERING UP PLAN
BARING, BUXTON & TRAVIS STREETS**

Scale/A1	1:250	Job No.	0042912
Drawn by	HN	Date	NOVEMBER 2020
Checked by	JS	Rev	B

Drawing No: 0042912-BHE-XX-XX-DR-C-2253



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<u>MAINTENANCE/CLEANING/OPERATION</u>	
<u>RECOMMENDATIONS/DEMOLITION</u>	
Notes 1. THIS DRAWING IS BASED ON: 1.1. ARCHITECT'S PLAN 0345-SEW-00-DR-L-007102 RECEIVED FROM SEW ON 16/11/2020; AND 1.2. TOPOGRAPHICAL SURVEY RECEIVED 07/12/2020 FROM SURVEY OPERATIONS 1.3. TOPOGRAPHICAL SURVEY DATED 25/08/2017 FROM MALCOLM HUGHES LAND SURVEYORS. 1.4. LAYOUT OF LONDON ROAD JUNCTION FROM TRANSPORT FOR GREATER MANCHESTER RECEIVED 26/03/21. 2. PHASE 1 PLANNING BOUNDARY AS PER PLANNING REFERENCE 124972/FO/2019. 3. PUBLIC HIGHWAY BOUNDARY BASED ON 'Adopted Highway Map' PNG, RECEIVED 08/01/2021 FROM MCC IN COMBINATION WITH EXISTING TOPOGRAPHICAL SURVEY USED AS A GUIDE. 4. SEE MANCHESTER CITY COUNCIL STANDARD DETAILS FOR KERB BEDDING AND FOUNDATIONS. 5. REFER TO DRAWING 0042912-BHE-XX-XX-DR-C-2800 FOR PAVEMENT BUILDING AND DETAILS	

B	FOR MCC REVIEW	05.05.2021	JS	JMS
A	FOR MCC REVIEW	08.12.2020	HN	JS
Rev	Description	Date	Dm	Ch'd

INFORMATION

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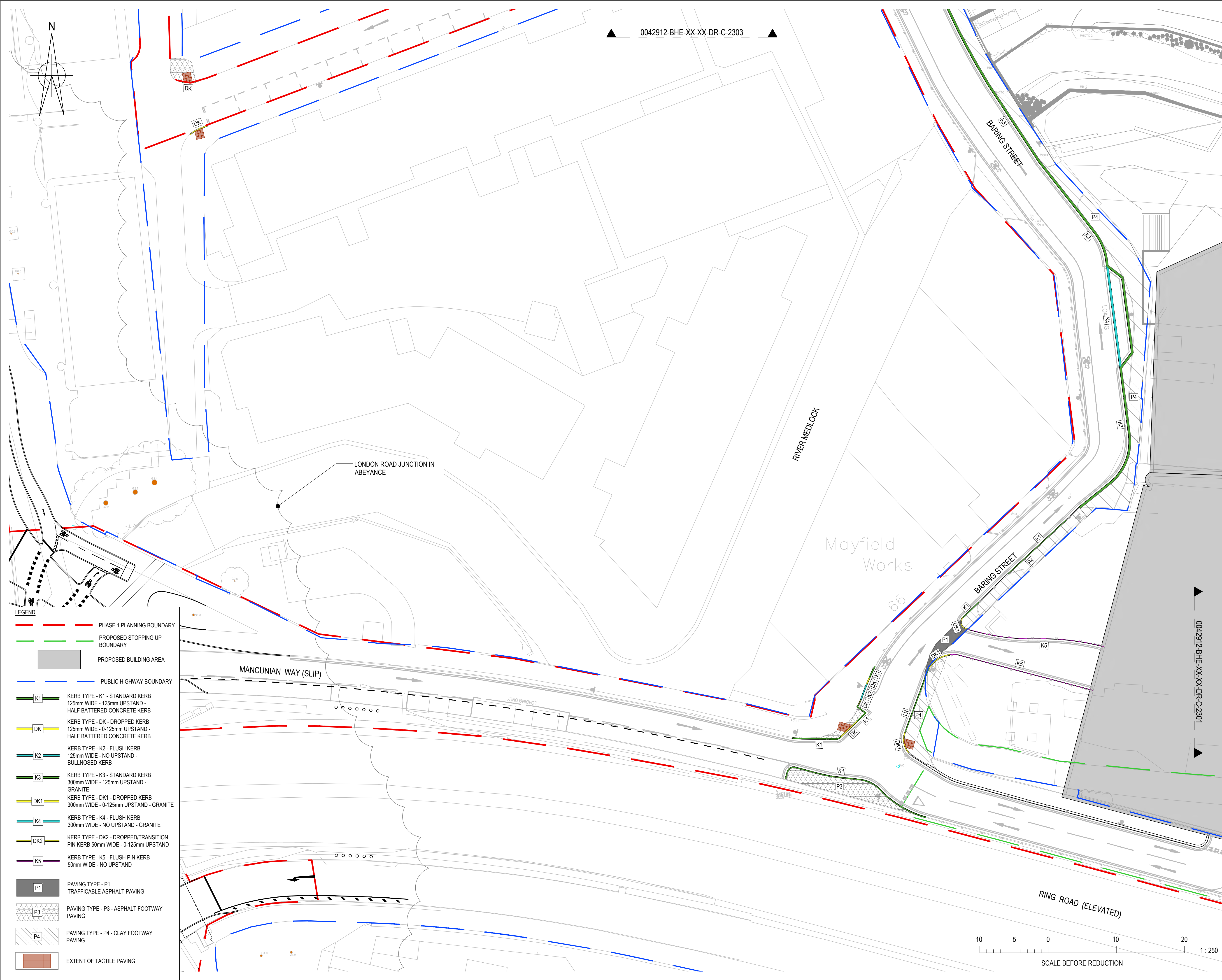
Architect **SEW**

Project **MAYFIELD DEVELOPMENT PARTNERSHIP**

Drg Title **HIGHWAY WORKS
PROPOSED PAVEMENT PLAN
MANCUNIAN WAY SLIP EAST**

Scales@A1	1:250	Job No.	0042912
Drawn by	HN	Date	NOVEMBER 2020
Checked by	JS	Rev	B

Drawing No. 0042912-BHE-XX-XX-DR-C-2301



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5. REFER TO DRAWING 0042912-BHE-XX-XX-DR-C-2800 FOR PAVEMENT BUILD-UPS AND DETAILS.

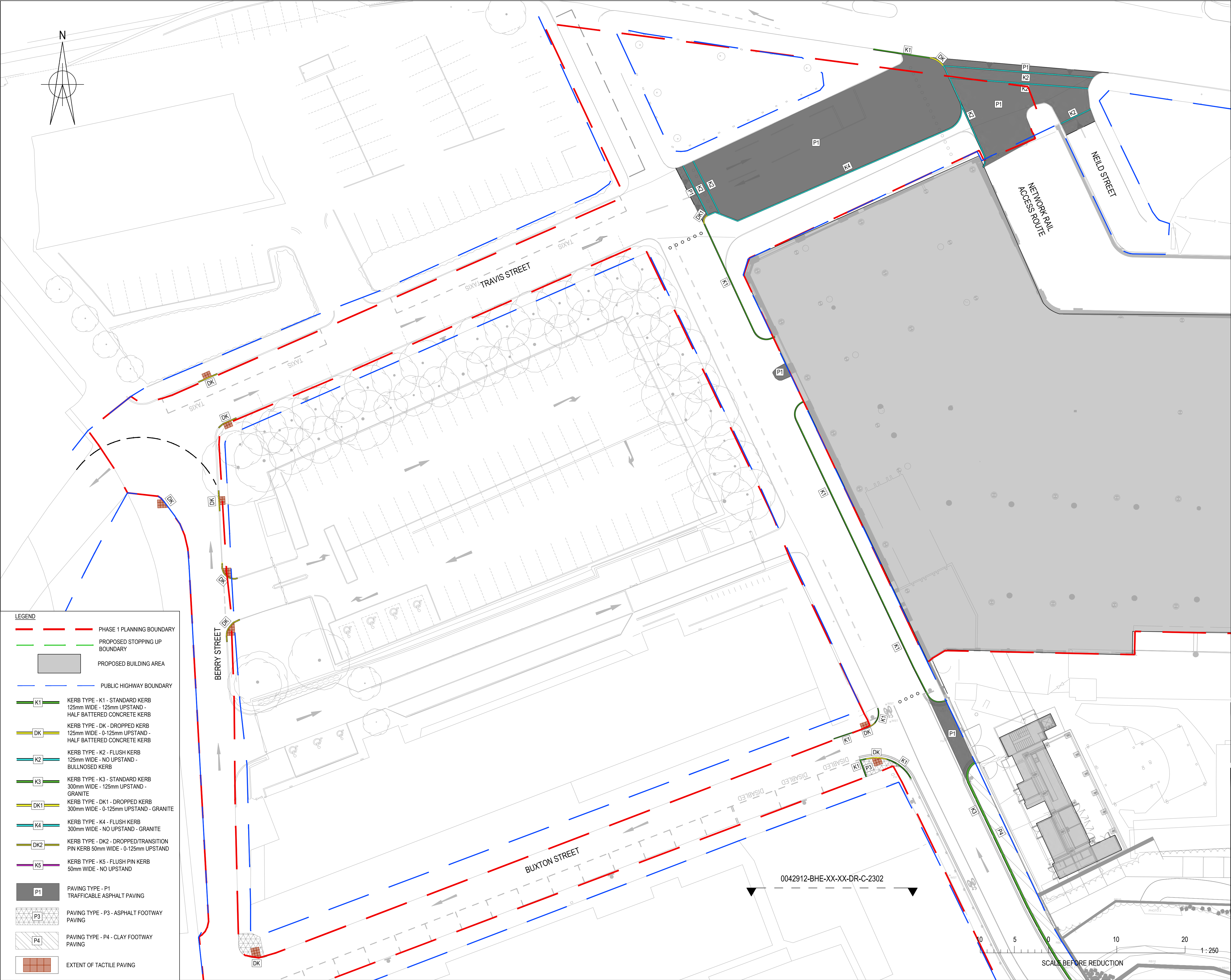
B	FOR MCC REVIEW	05.05.2021	JS	JMS
A	FOR MCC REVIEW	08.12.2020	HN	JS
Rev	Description	Date	Dm	Ctd

INFORMATION
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Architect Project Dwg Title	SEW MAYFIELD DEVELOPMENT PARTNERSHIP HIGHWAY WORKS PROPOSED PAVEMENT PLAN MANCUNIAN WAY SLIP WEST
Scale@A1 Drawn by Checked by	1:250 HN JS
Job No. Date Rev	0042912 NOVEMBER 2020 B
Drawing No.	0042912-BHE-XX-XX-DR-C-2302

20201 Source: 17-05-2021 Mayfield Part 1 Manchester Infrastructure 08 - 100012 - Sewer0042912-BHE-XX-XX-DR-C-2302002.dwg



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B	FOR MCC REVIEW	05.05.2021	JS	JMS
A	FOR MCC REVIEW	08.12.2020	HN	JS
Rev	Description	Date	Dm	Chd

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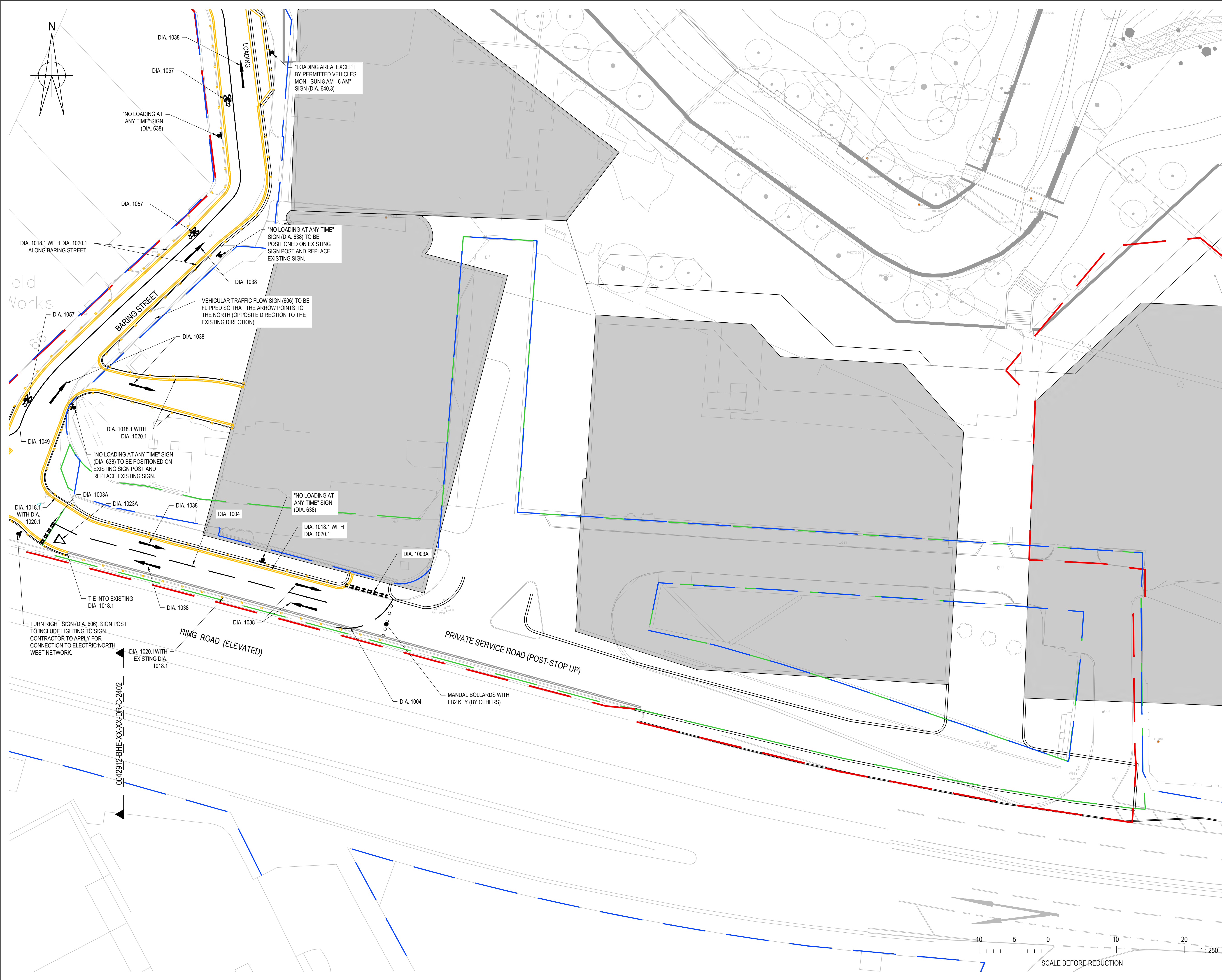
Architect **SEW**
Project **MAYFIELD DEVELOPMENT PARTNERSHIP**
Dwg Title **HIGHWAY WORKS
PROPOSED PAVEMENT PLAN
BARING, BUXTON & TRAVIS STREETS**

Scale@A1 1:250
Drawn by HN
Checked by JS

Job No. **0042912**
Date **NOVEMBER 2020**
Rev **B**

Drawing No. **0042912-BHE-XX-XX-DR-C-2303**

John Scahill 17/05/2021 Mayfield PPA Manchester Infrastructure 08 - 1000012 - Shared/0042912-BHE-XX-XX-DR-C-2303/2020.dwg



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CONSTRUCTION.

MAINTENANCE/CLEANING/OPERATION.

DECOMMISSIONING/DEMOLITION.

Notes
1. THIS DRAWING IS BASED ON:
1.1. ARCHITECT'S PLAN 0345-SEW-ZZ-00-DR-L-007102 RECEIVED
FROM SEW ON 16/11/2020; AND
1.2. TOPOGRAPHICAL SURVEY RECEIVED 07/12/2020 FROM
SURVEY OPERATIONS.
1.3. TOPOGRAPHICAL SURVEY DATED 25/08/2017 FROM
MALCOLM HUGHES LAND SURVEYORS.
1.4. LAYOUT OF LONDON ROAD JUNCTION FROM TRANSPORT
FOR GREATER MANCHESTER RECEIVED 26/03/21.
2. PHASE 1 PLANNING BOUNDARY AS PER PLANNING
REFERENCE 124972/F0/2019.
3. PUBLIC HIGHWAY BOUNDARY BASED ON 'Adopted Highway
Map' (PNG) RECEIVED 08.01.2021 FROM MCC IN COMBINATION
WITH EXISTING TOPOGRAPHICAL SURVEY USED AS A GUIDE.
4. EXISTING ROAD MARKINGS ARE TO BE BURNT OFF WHERE
REQUIRED.
5. TRAFFIC ROAD MARKINGS AND SIGNS ARE TO BE IN
ACCORDANCE WITH THE TRAFFIC SIGN MANUAL.

LEGEND
--- PHASE 1 PLANNING BOUNDARY
--- PROPOSED STOPPING UP
BOUNDARY
--- PROPOSED BUILDING AREA
--- PUBLIC HIGHWAY BOUNDARY

B	FOR MCC REVIEW	05.05.2021	JS	JMS
A	FOR MCC REVIEW	08.12.2020	HN	JS

Rev	Description	Date	Dm	Ctd

INFORMATION
Status of drawing

**BUROHAPPOLD
ENGINEERING**

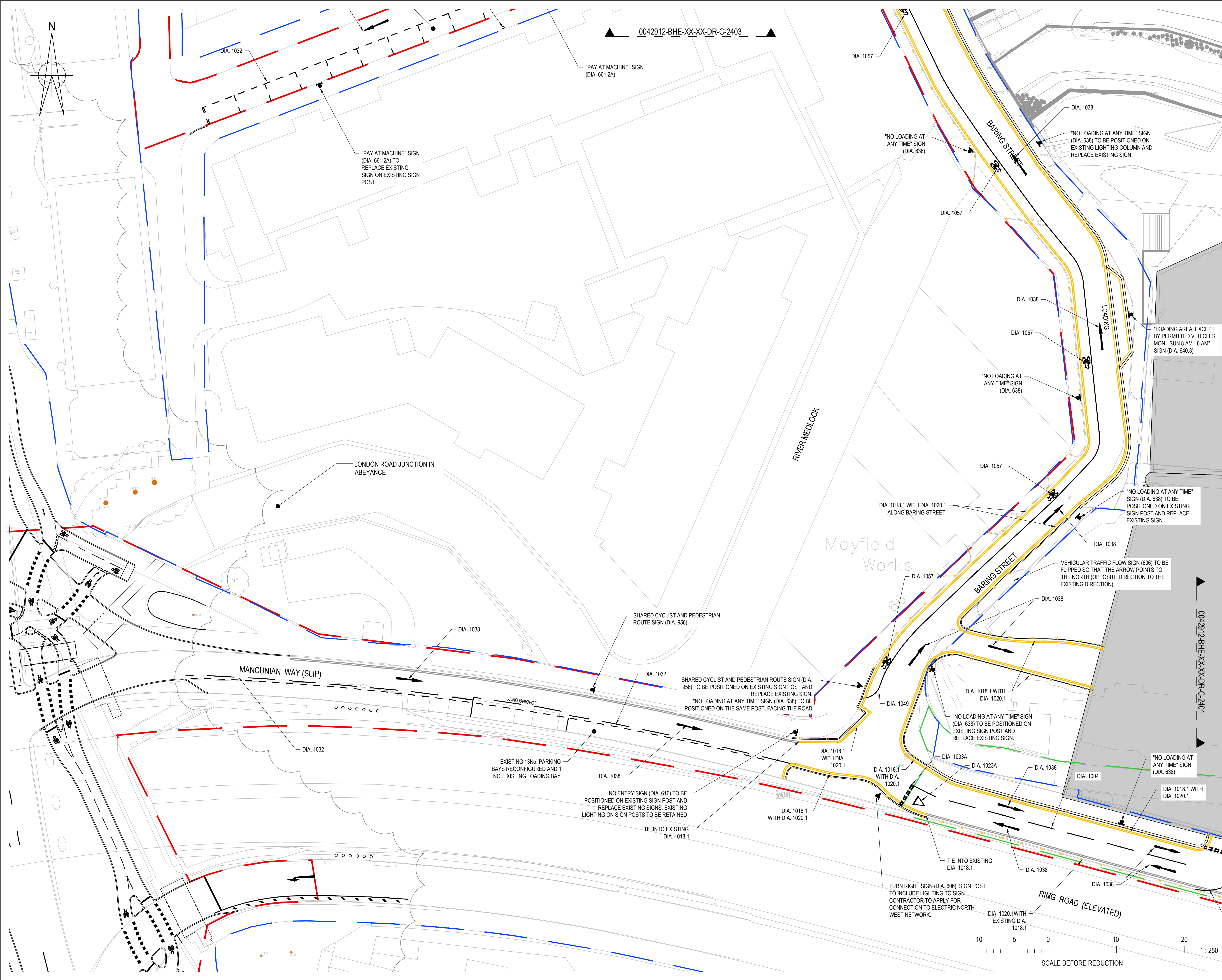
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Web: www.burohappold.com

Architect **SEW**
Project **MAYFIELD DEVELOPMENT PARTNERSHIP**
Dwg Title **HIGHWAY WORKS - PROPOSED ROAD
MARKINGS & TRAFFIC SIGNS
MANCUNIAN WAY SLIP EAST**

Scale/A1	1:250	Job No.	0042912
Drawn by	XX	Date	NOVEMBER 2020
Checked by	XX	Rev	B

Drawing No: 0042912-BHE-XX-XX-DR-C-2401



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LEGEND
--- PHASE 1 PLANNING BOUNDARY
--- PROPOSED STOPPING UP BOUNDARY
[Grey Box] PROPOSED BUILDING AREA
--- PUBLIC HIGHWAY BOUNDARY

B	FOR MCC REVIEW	05.05.2021	JS	JMS
A	FOR MCC REVIEW	08.12.2020	HN	JS
Rev	Description	Date	Dm	Ctd

INFORMATION
Status of drawing

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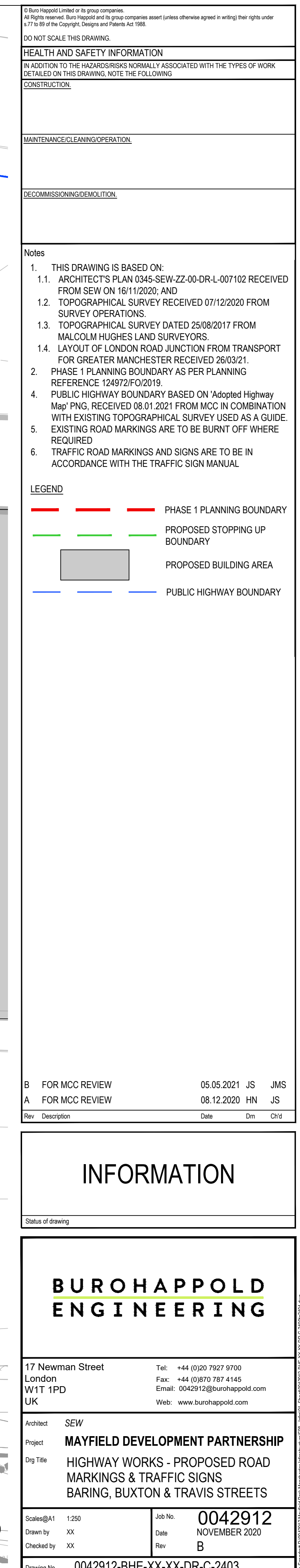
Architect **SEW**
Project **MAYFIELD DEVELOPMENT PARTNERSHIP**
Dwg Title **HIGHWAY WORKS - PROPOSED ROAD MARKINGS & TRAFFIC SIGNS MANCUNIAN WAY SLIP WEST**

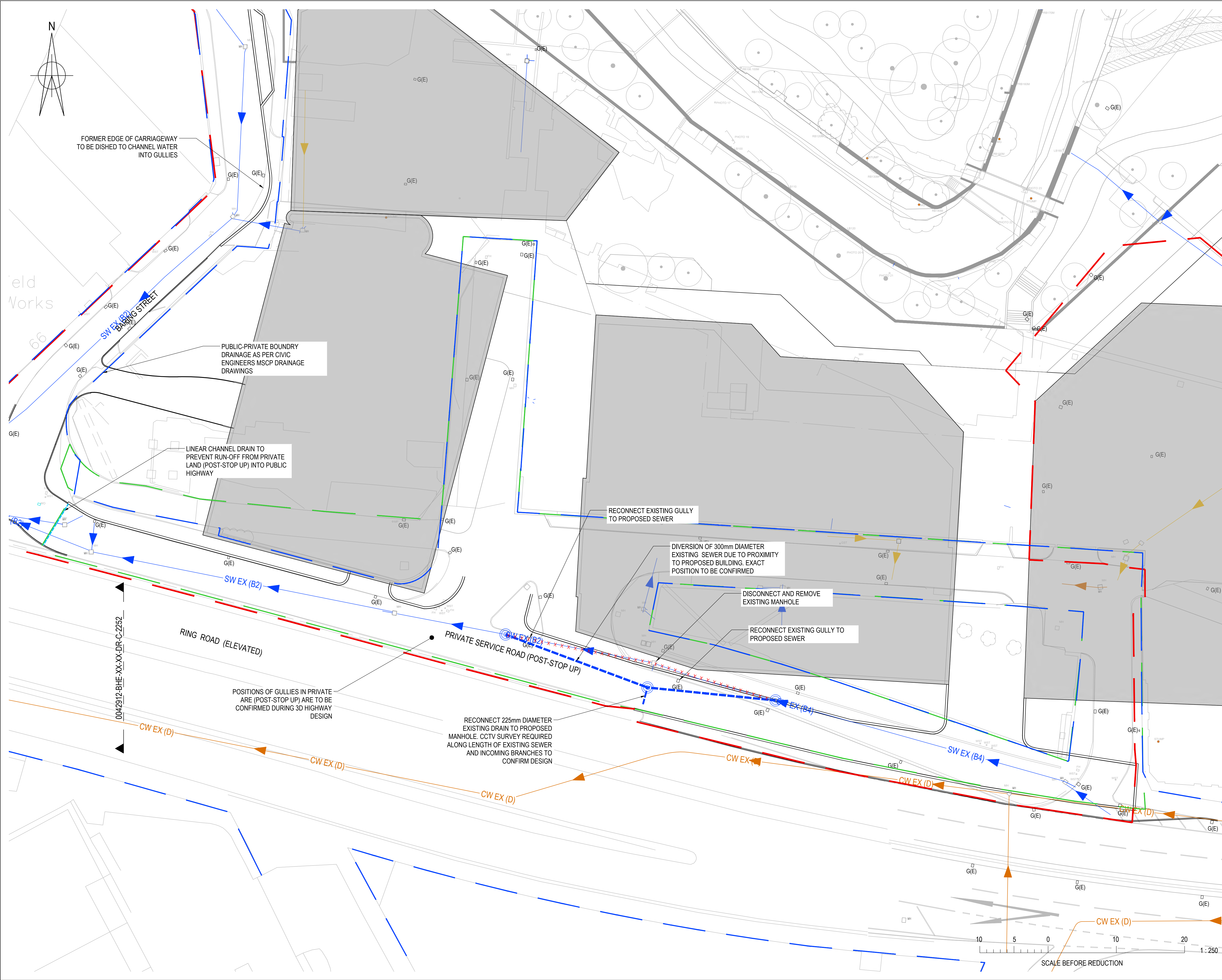
Scale/A1 1:250
Drawn by XX
Checked by XX

Job No. **0042912**
Date **NOVEMBER 2020**
Rev **B**

Drawing No: **0042912-BHE-XX-XX-DR-C-2402**

JOHN SLOAN/017/00002912/Mayfield Part 1/Manchester Infrastructure/08 - 10/00017 - 0042912-BHE-XX-XX-DR-C-2402/0042912.dwg





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DECOMMISSIONING/DEMOLITION

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3. PUBLIC HIGHWAY BOUNDARY BASED ON 'Adopted Highway Map' PNG, RECEIVED 08.01.2021 FROM MCC IN COMBINATION WITH EXISTING TOPOGRAPHICAL SURVEY USED AS A GUIDE.
4. REFER TO DRAWING 0042912-BHE-XX-XX-DR-C-2850 FOR DRAINAGE DETAILS

LEGEND
--- PHASE 1 PLANNING BOUNDARY
--- PROPOSED STOPPING UP BOUNDARY
[Grey Box] PROPOSED BUILDING AREA
--- PUBLIC HIGHWAY BOUNDARY

EXISTING DRAINAGE (WITH CONFIDENCE RATINGS)
--- SW EX (D) --- EXISTING SURFACE WATER SEWER
--- CW EX (D) --- EXISTING COMBINED WATER SEWER
--- FW EX (D) --- EXISTING COMBINED WATER SEWER
[Square] EXISTING GULLY

PROPOSED DRAINAGE
[Square] PROPOSED GULLY
--- SURFACE WATER PIPE
--- LINEAR CHANNEL DRAIN
[Circle] SURFACE WATER MANHOLE
X X X X X X X X X X EXISTING SEWER TO BE ABANDON

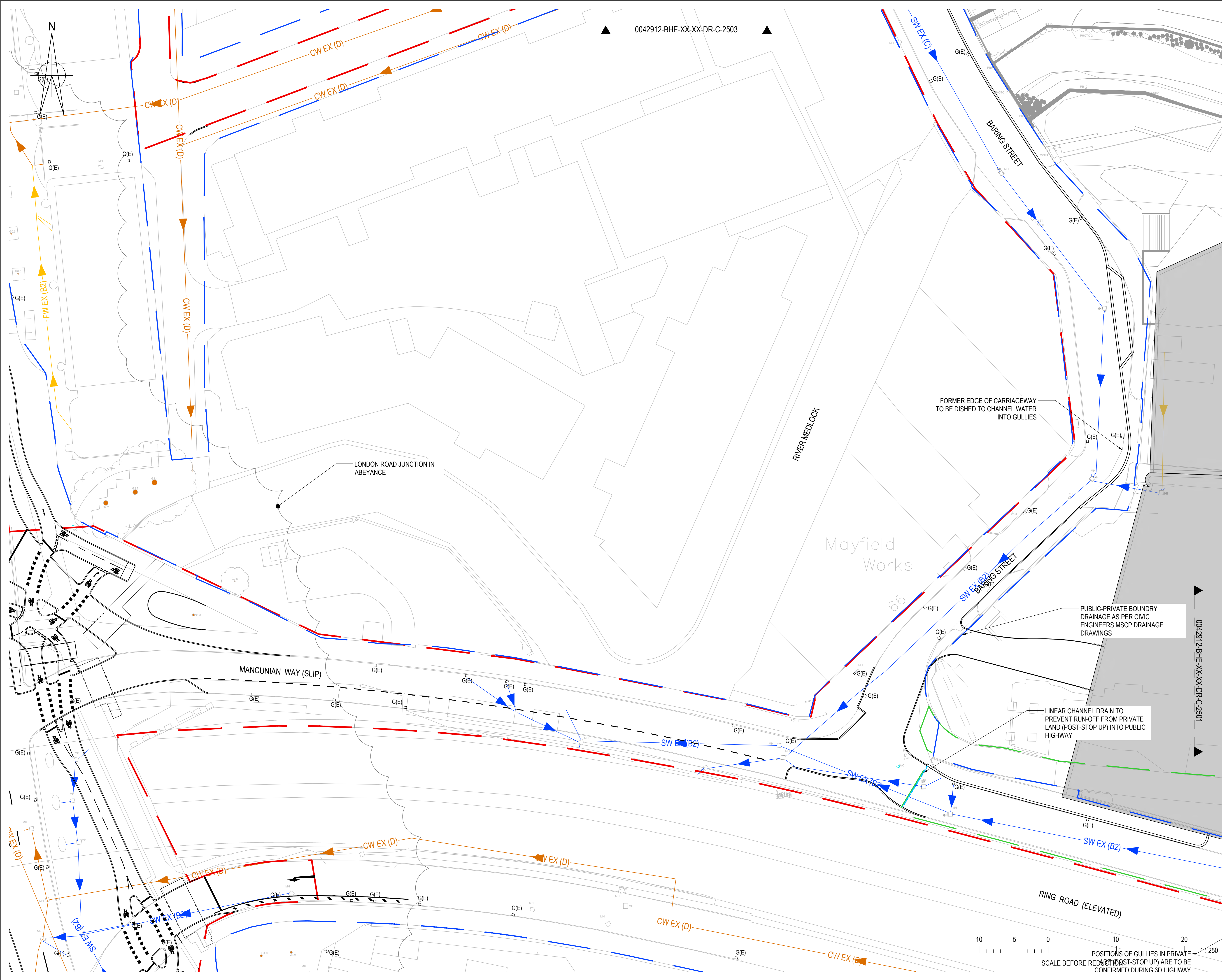
CONFIDENCE LEVELS FOR EXISTING SEWERS
(D) ROUTE FROM SERVICE RECORDS.
(C) ROUTE FROM SERVICE RECORDS TIED TO VISUAL INDICATORS.
(B4) ASSUMED ROUTE - UNDETECTED BY EML OR GPR.
(B3) HORIZONTALLY POSITIONED DATA ONLY.
(B2) HORIZONTAL AND VERTICAL POSITION DETECTED BY A SINGLE METHOD.
(B2P) HORIZONTAL AND VERTICAL POSITION DETECTED BY A SINGLE METHOD WITH POST PROCESSING OF DATA.
(B1) HORIZONTAL AND VERTICAL POSITION DETECTED BY MULTIPLE METHODS WITH POST PROCESSING OF DATA.
(A) HORIZONTAL AND VERTICAL POSITION VERIFIED VISUALLY.

B	FOR MCC REVIEW	05.05.2021	JS	JMS
A	FOR MCC REVIEW	08.12.2020	HN	JS
Rev	Description	Date	Dm	Ctd

INFORMATION
Status of drawing

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Architect Project Drg Title	SEW MAYFIELD DEVELOPMENT PARTNERSHIP HIGHWAY WORKS PROPOSED DRAINAGE LAYOUT MANCUNIAN WAY SLIP EAST
Scale@A1 Drawn by Checked by	1:250 HN JS
Job No. Date Rev	0042912 NOVEMBER 2020 B
Drawing No: 0042912-BHE-XX-XX-DR-C-2501	



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4. REFER TO DRAWING 0042912-BHE-XX-XX-DR-C-2850 FOR DRAINAGE DETAILS

LEGEND
--- PHASE 1 PLANNING BOUNDARY
--- PROPOSED STOPPING UP BOUNDARY
[Grey Box] PROPOSED BUILDING AREA
--- PUBLIC HIGHWAY BOUNDARY

--- SW EX (D) --- EXISTING SURFACE WATER SEWER
--- CW EX (D) --- EXISTING COMBINED WATER SEWER
--- FW EX (D) --- EXISTING COMBINED WATER SEWER
[Square] EXISTING GULLY

[Square] PROPOSED GULLY
--- SURFACE WATER PIPE
--- LINEAR CHANNEL DRAIN
[Circle] SURFACE WATER MANHOLE
x x x x x x x x x x EXISTING SEWER TO BE ABANDON

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B	FOR MCC REVIEW	05.05.2021	JS	JMS
A	FOR MCC REVIEW	08.12.2020	HN	JS

Rev	Description	Date	Drm	Cnt'd

INFORMATION
Status of drawing

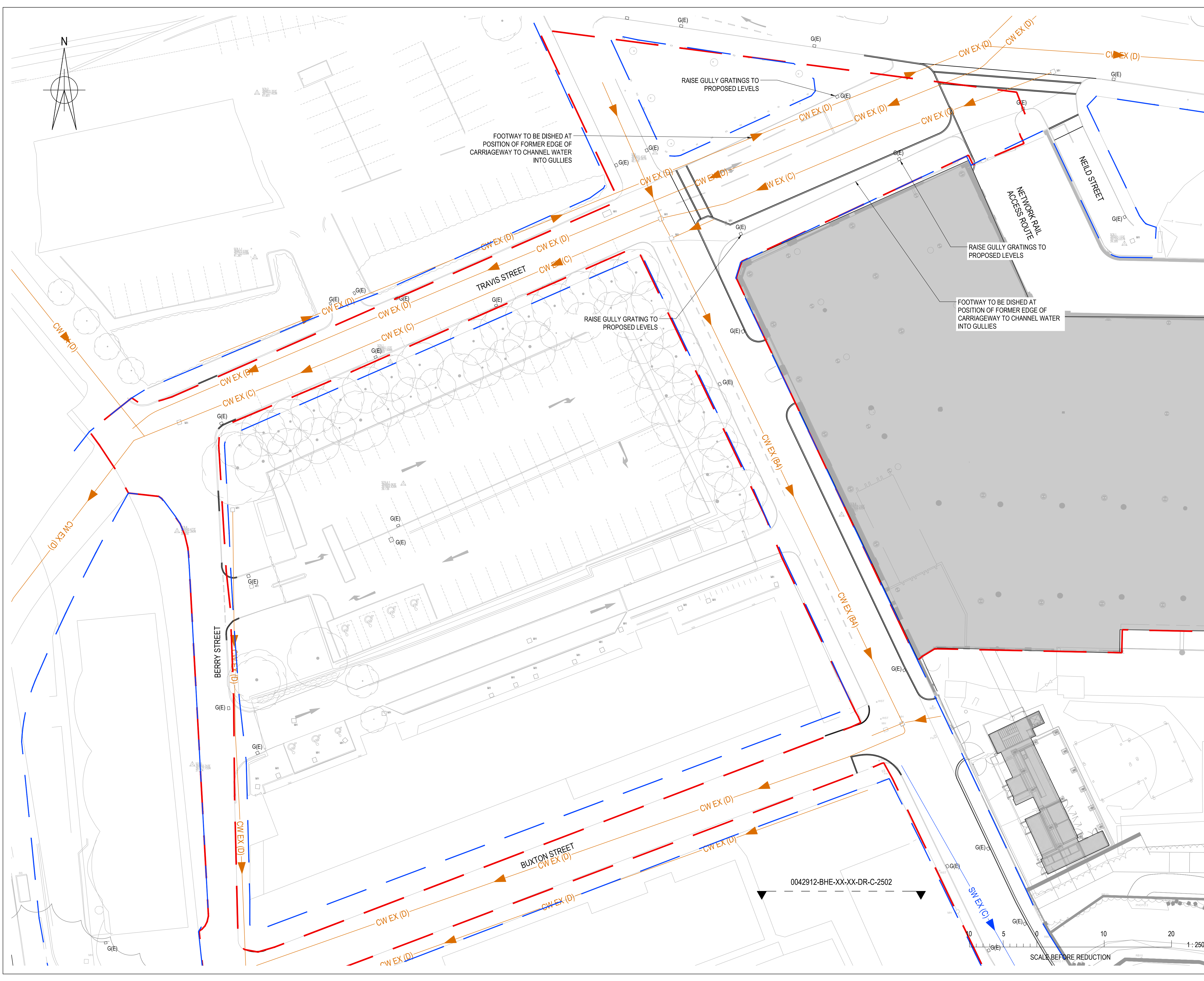
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Architect Project Drg Title	SEW MAYFIELD DEVELOPMENT PARTNERSHIP HIGHWAY WORKS PROPOSED DRAINAGE LAYOUT MANUNCIAN WAY SLIP WEST
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Scales@A1 Drawn by Checked by	1:250 HN JS	Job No. Date Rev	0042912 NOVEMBER 2020 B
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Drawing No: 0042912-BHE-XX-XX-DR-C-2502



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LEGEND
--- PHASE 1 PLANNING BOUNDARY
--- PROPOSED STOPPING UP BOUNDARY
[Grey Box] PROPOSED BUILDING AREA
--- PUBLIC HIGHWAY BOUNDARY

EXISTING DRAINAGE (WITH CONFIDENCE RATINGS)
--- SW EX (D) --- EXISTING SURFACE WATER SEWER
--- CW EX (D) --- EXISTING COMBINED WATER SEWER
--- FW EX (D) --- EXISTING COMBINED WATER SEWER
[G(E)] EXISTING GULLY

PROPOSED DRAINAGE
[G(P)] PROPOSED GULLY
--- SURFACE WATER PIPE
--- LINEAR CHANNEL DRAIN
[Circle with X] SURFACE WATER MANHOLE
X X X X X X X X X X EXISTING SEWER TO BE ABANDON

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B	FOR MCC REVIEW	05.05.2021	JS	JMS
A	FOR MCC REVIEW	08.12.2020	HN	JS

Rev	Description	Date	Dm	Ctd

INFORMATION
Status of drawing

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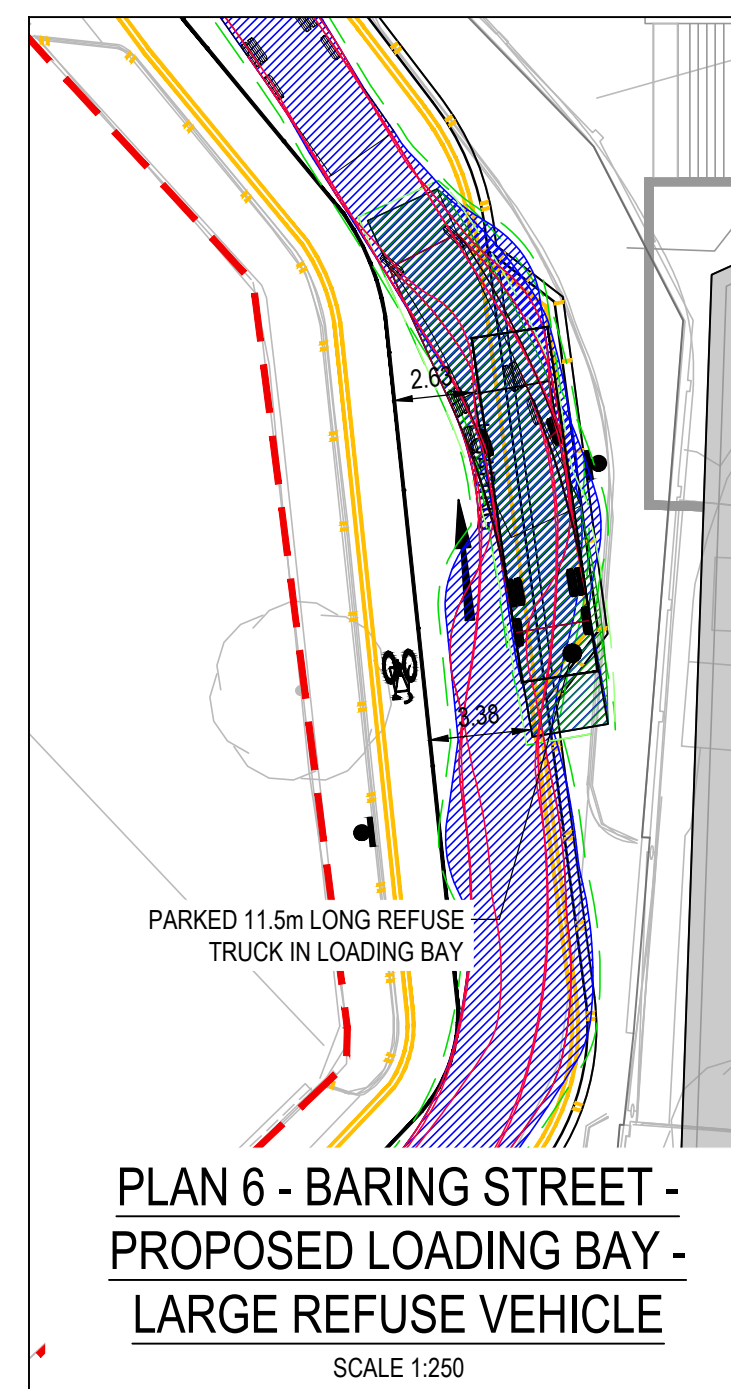
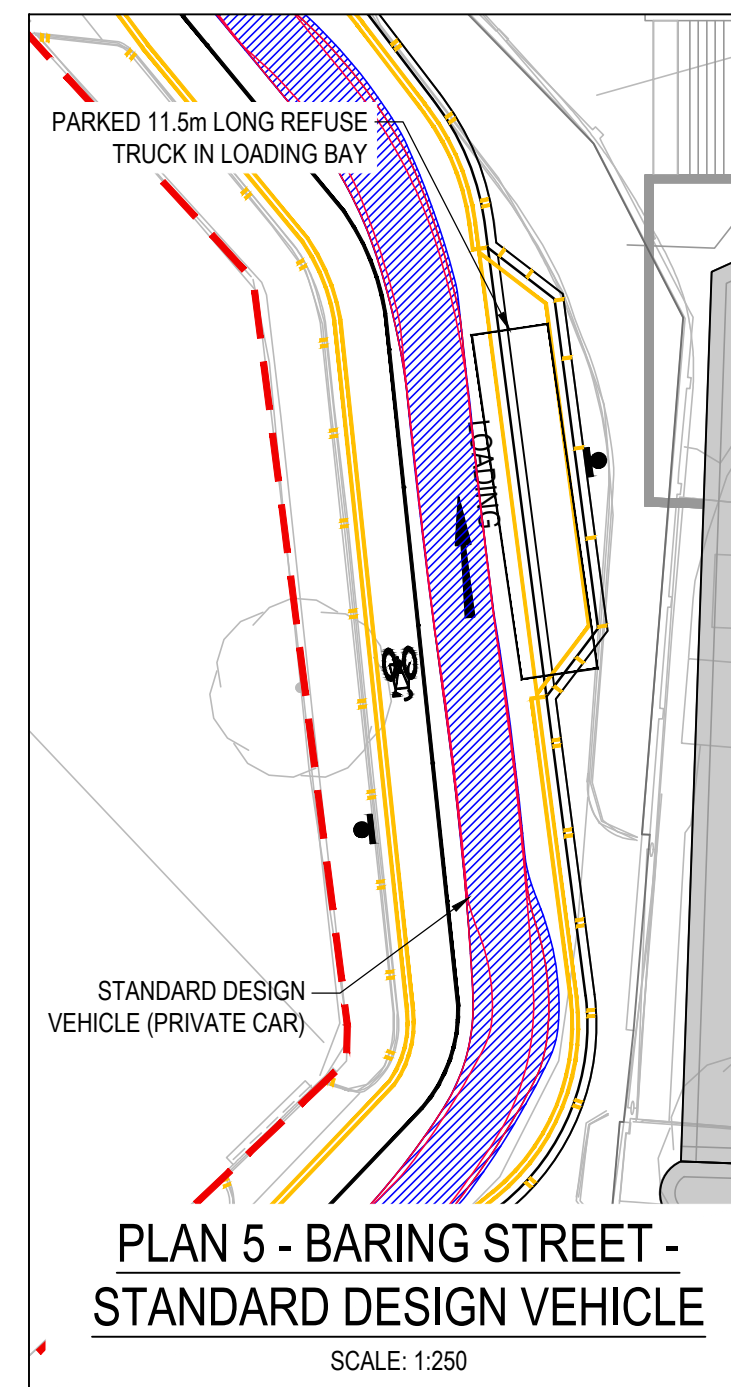
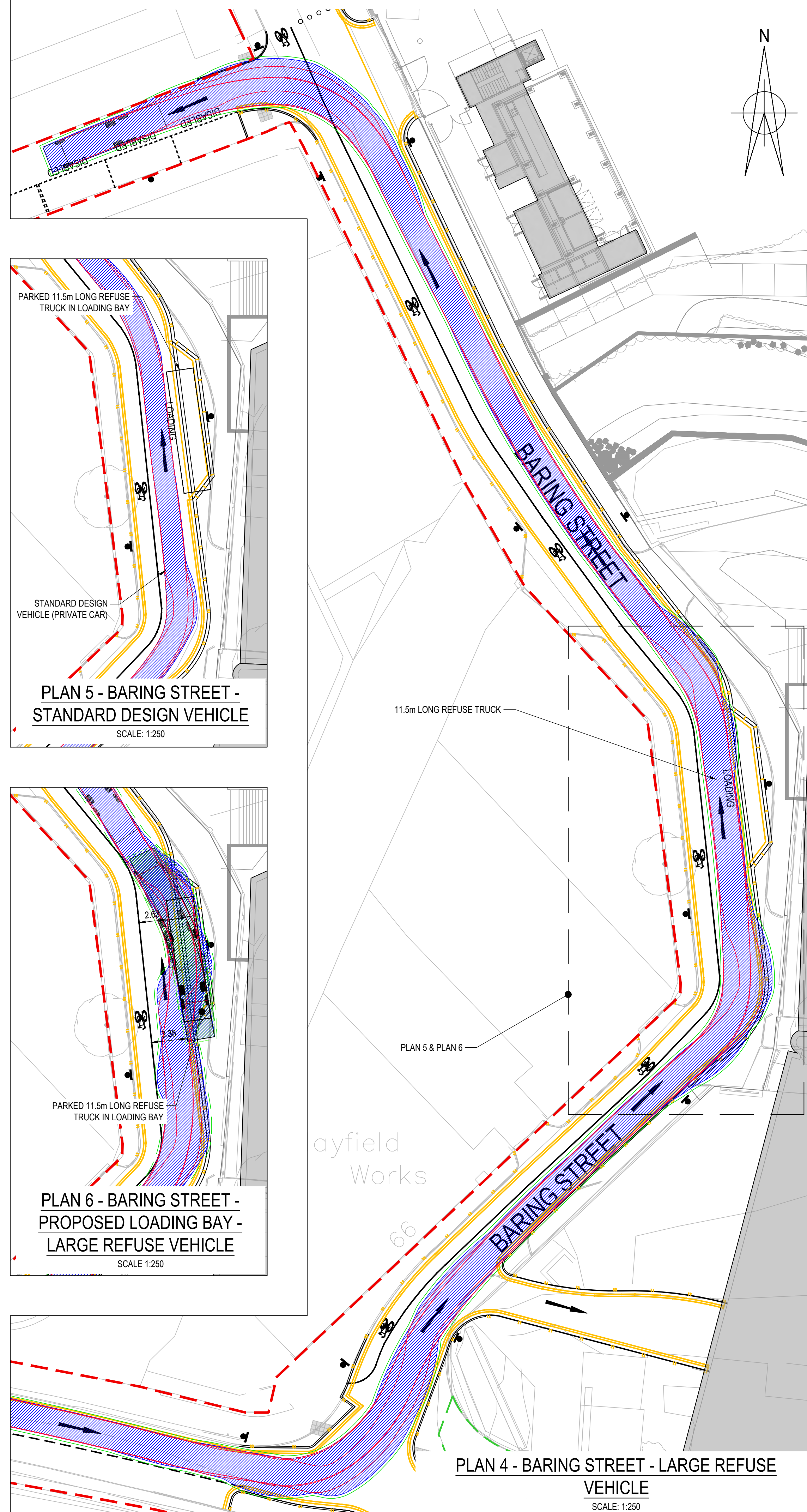
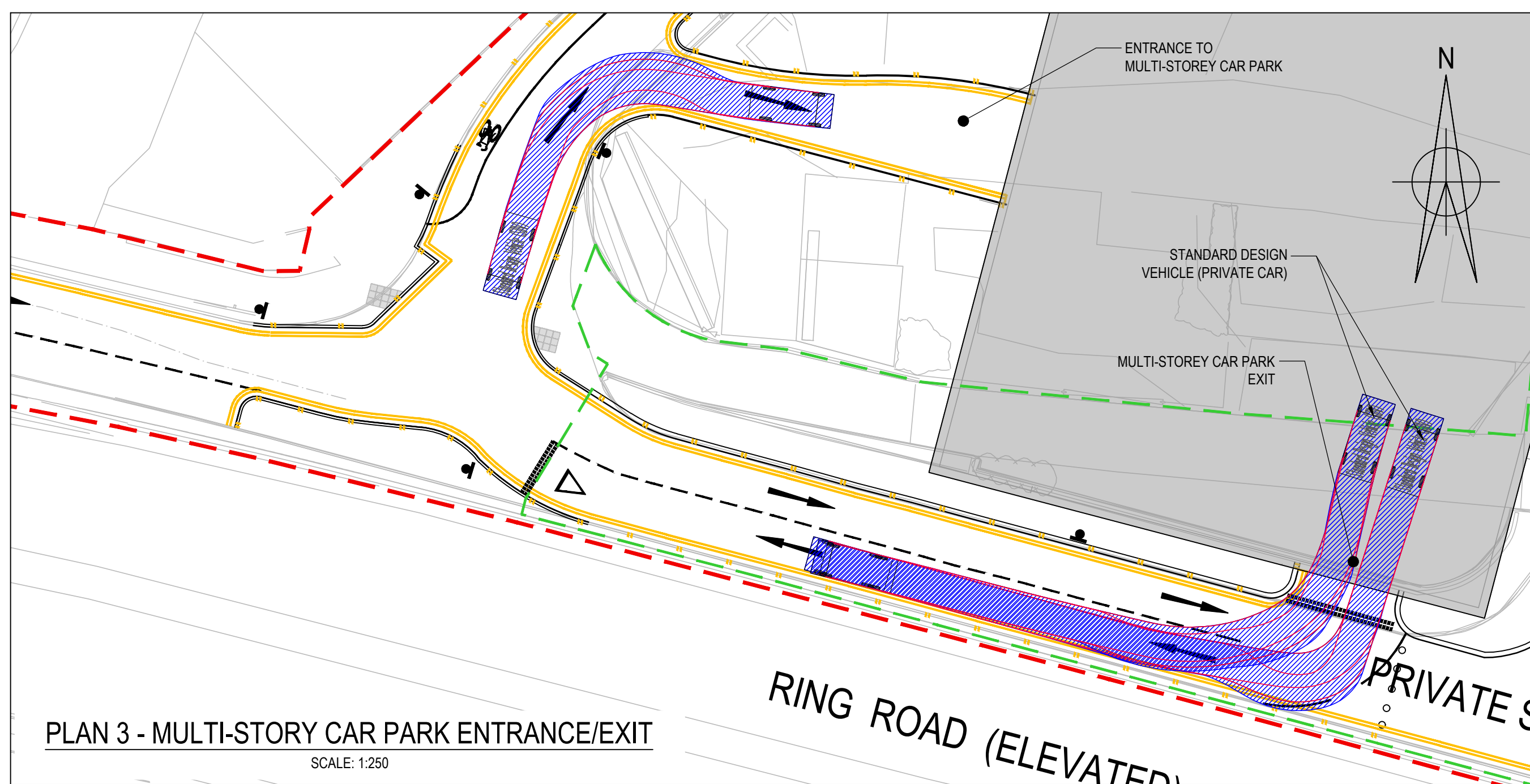
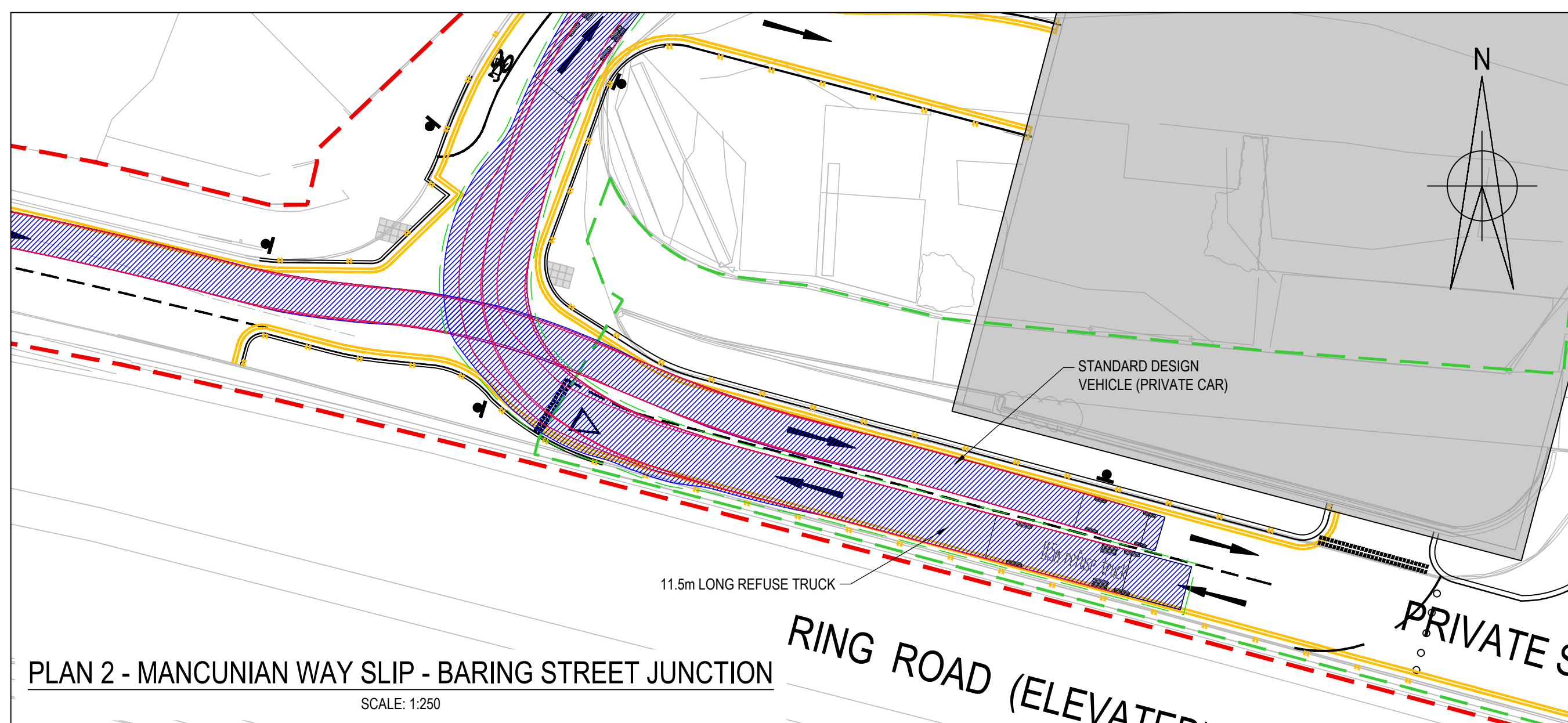
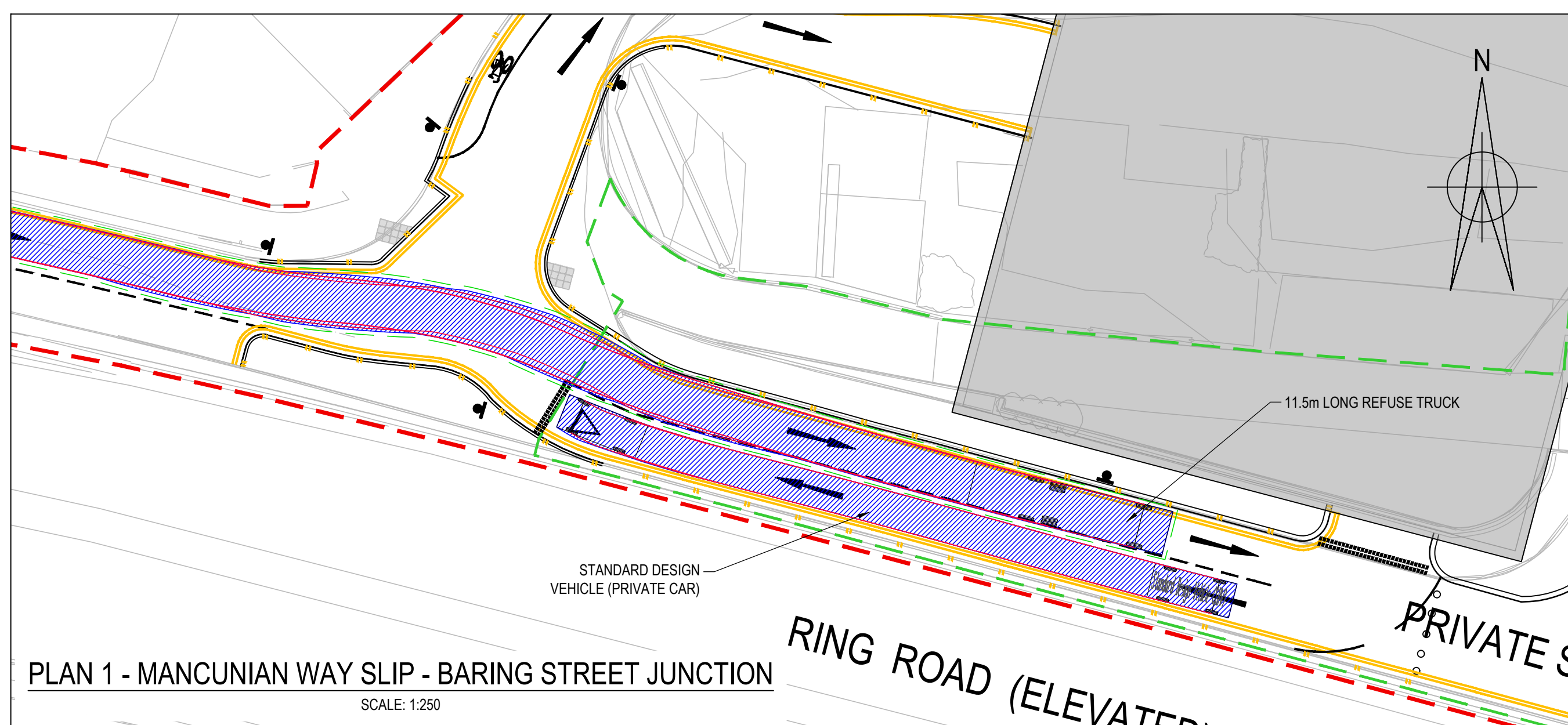
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Architect Project Dig Title	SEW MAYFIELD DEVELOPMENT PARTNERSHIP HIGHWAY WORKS PROPOSED DRAINAGE LAYOUT BARING, BUXTON & TRAVIS STREETS
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Scales@A1 Drawn by Checked by	1:250 HN JS	Job No. Date Rev	0042912 NOVEMBER 2020 B
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Drawing No: 0042912-BHE-XX-XX-DR-C-2503

2020 Source: C:\0042912\Mayfield Part 1\Manchester Infrastructure\08 - Internal - Sewerage\0042912-BHE-XX-XX-DR-C-250302.dwg



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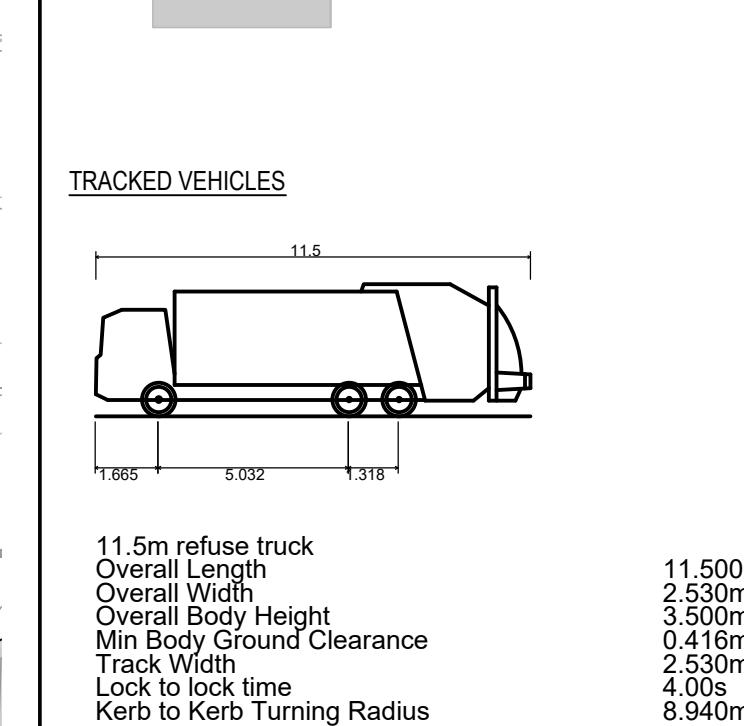
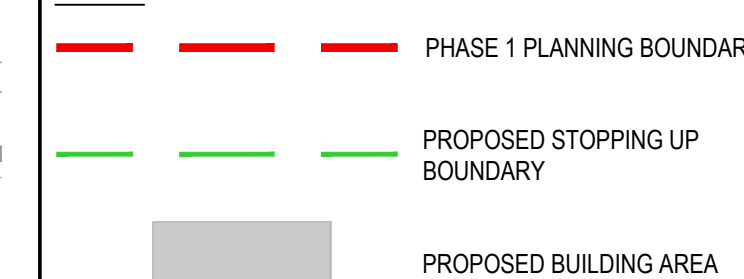
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LEGEND



B	FOR MCC REVIEW	05.05.2021	JS	JF
A	FOR MCC REVIEW	08.12.2020	JS	C
Rev	Description	Date	Drn	Ch

INFORMATION

Status of drawing	
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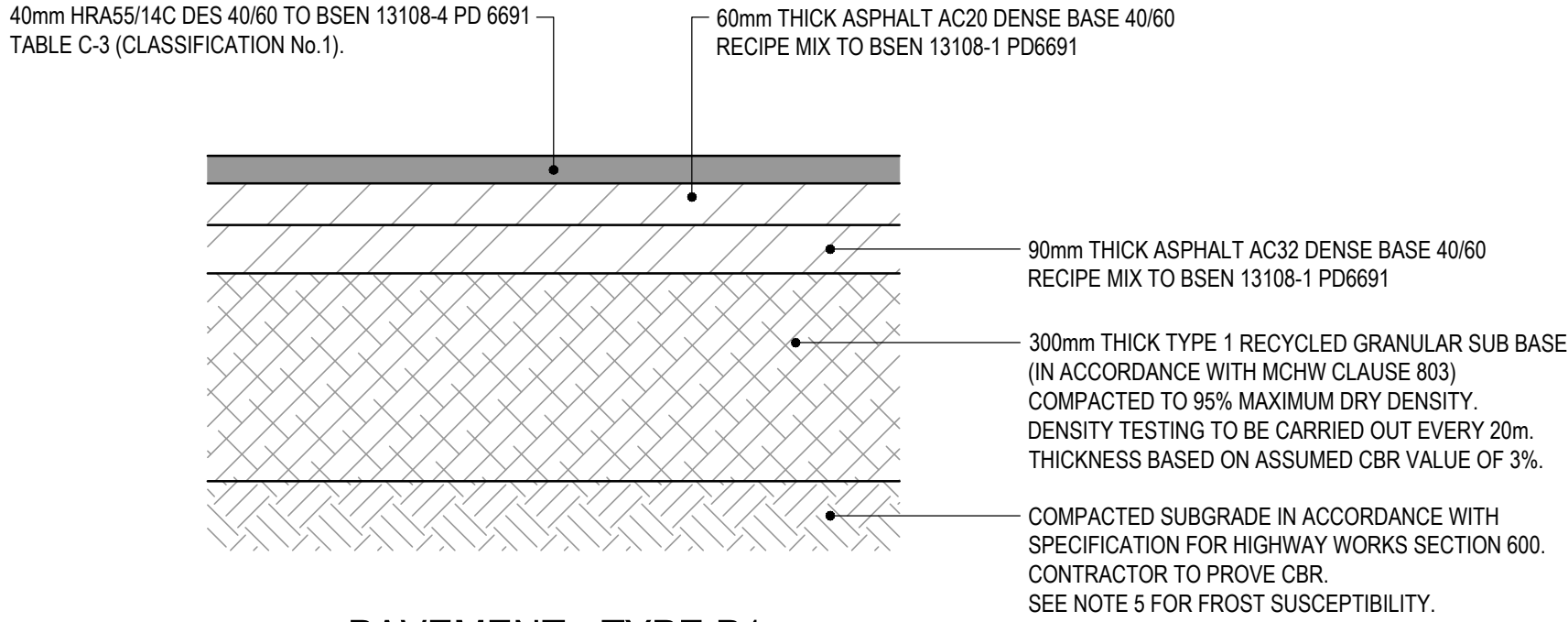
ENGINEERING

REFERENCES

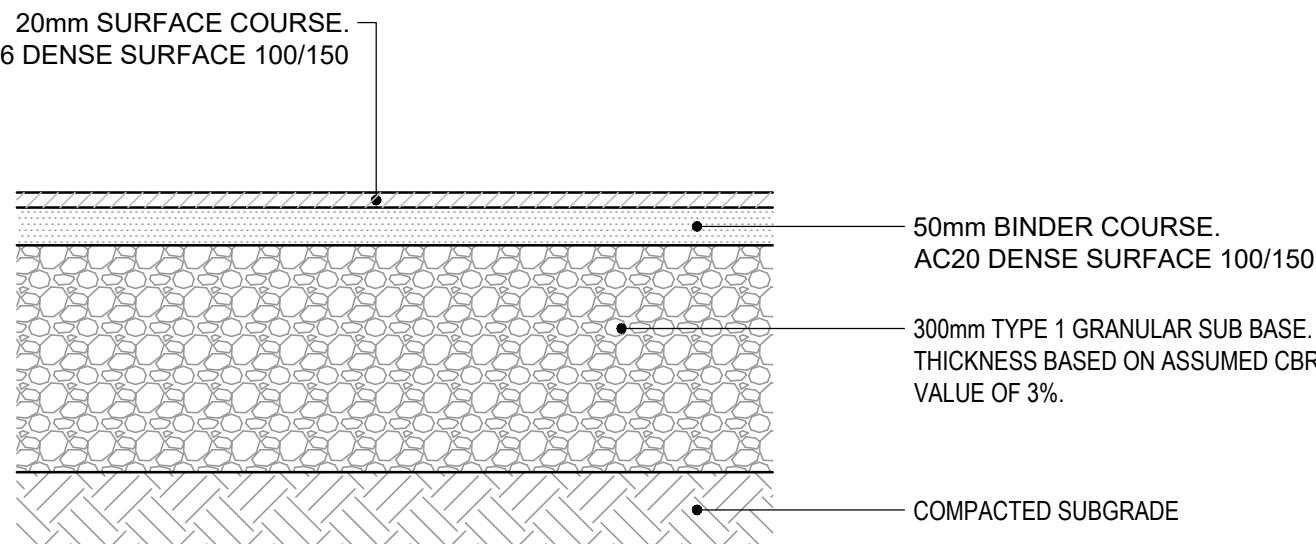
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17 Newman Street
London

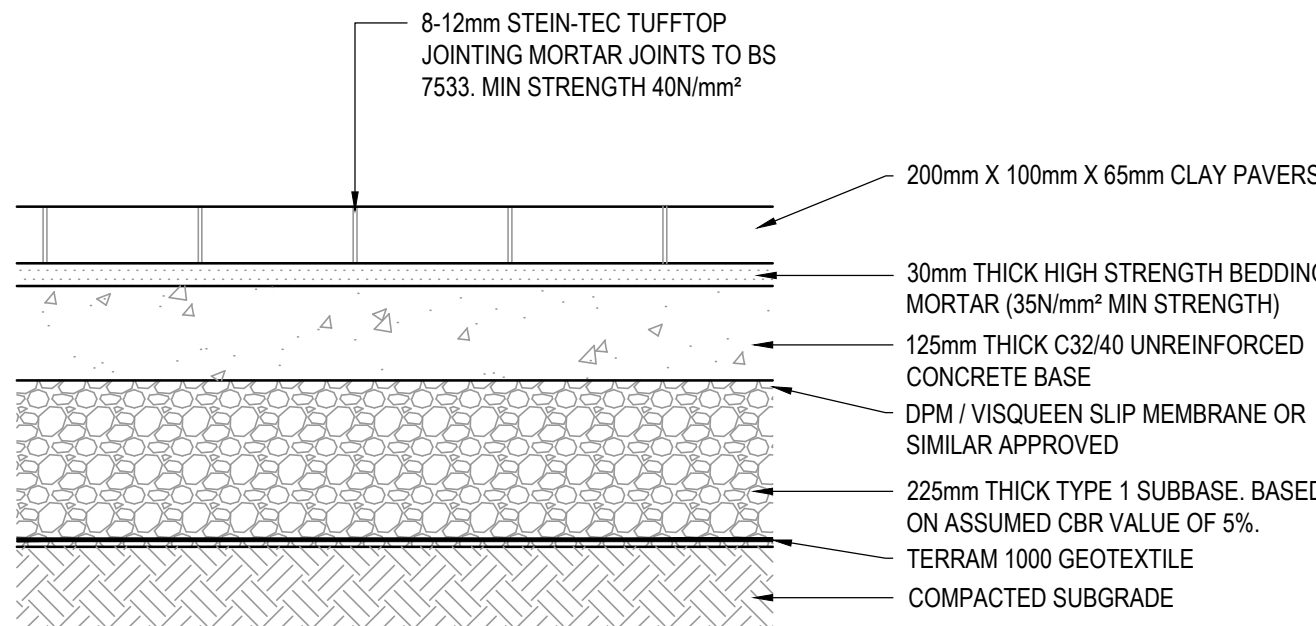
W1T 1PD
UK



PAVEMENT - TYPE P1
TRAFFICABLE ASPHALT CARRIAGEWAY PAVING

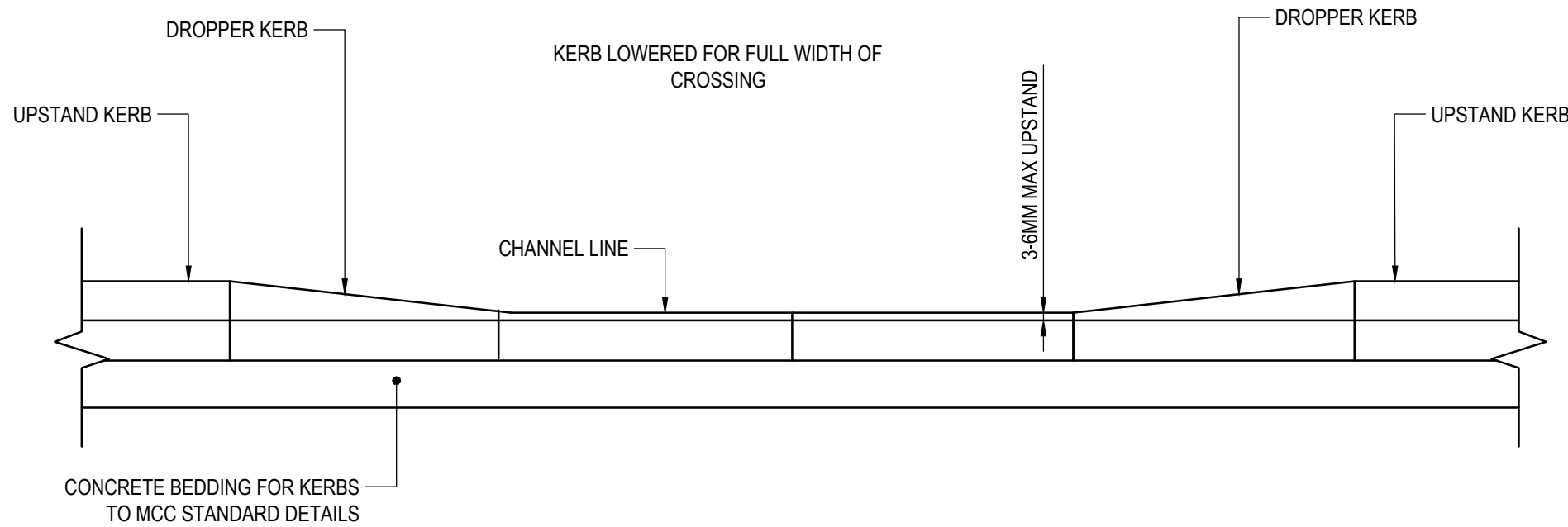


PAVEMENT - TYPE P3
ASPHALT FOOTWAY PAVING

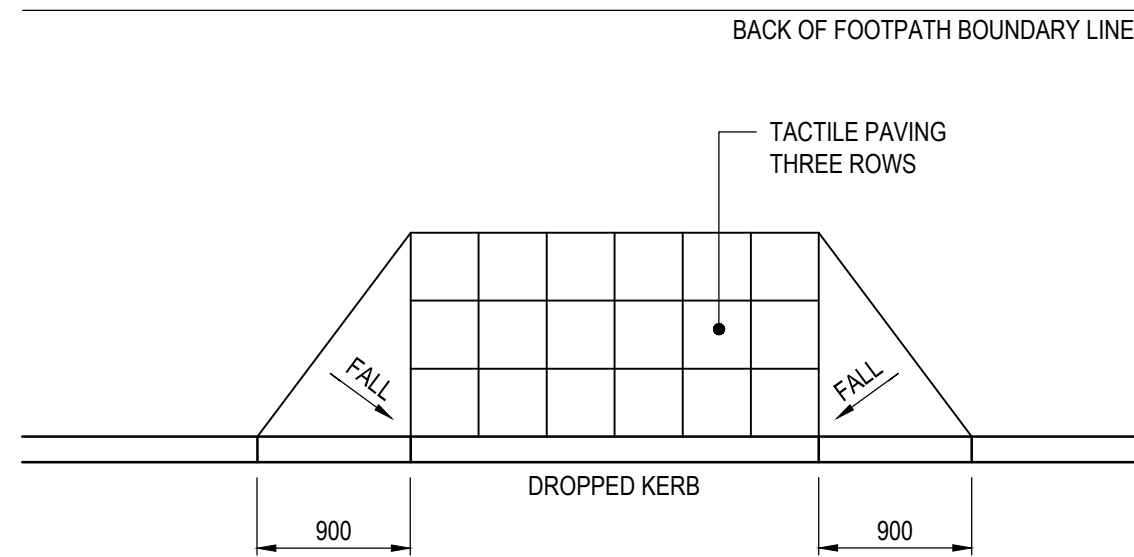


PAVEMENT - TYPE P4
CLAY FOOTWAY PAVING
(OCCASIONAL VEHICLE LOADING)

THICKNESS OF FOUNDATION MATERIALS		
CBR %	GRANULAR SUB BASE TYPE 1	CAPPING
>2	150	600
2	150	450
2.5	350	0
2.5	150	400
3	300	0
3	150	350
4	250	0
4	150	300
5	150	250
5-15	225	0
>15	150	0

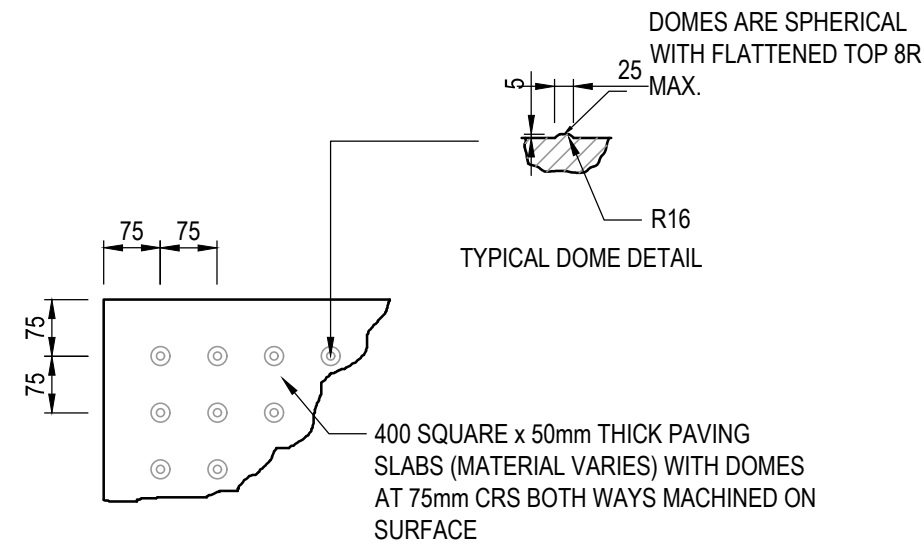


PEDESTRIAN CROSSING
DETAIL - ELEVATION

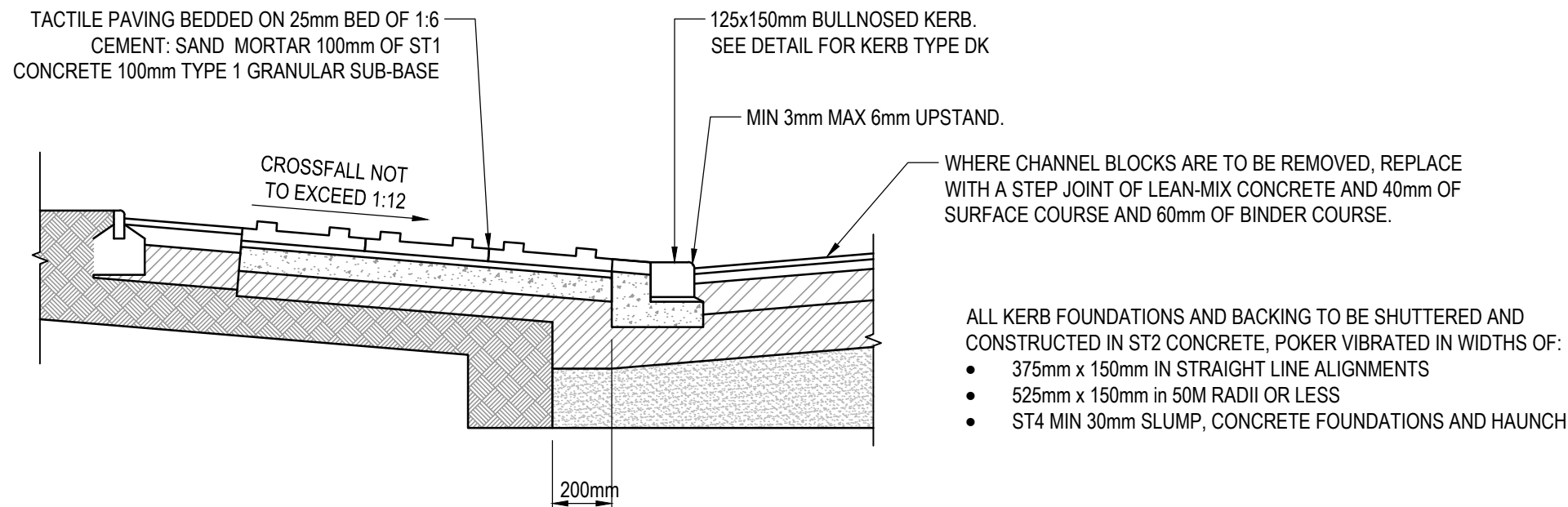


TACTILE PAVING AT
UNCONTROLLED CROSSING

NOTE: REFER TO PAVING PLAN FOR TACTILE PAVING LAYOUT AT SPECIFIC LOCATIONS



BLISTER TACTILE PAVING
MODULE DETAIL



SECTION THROUGH TACTILE
PAVING CROSSING

NOTE: CUT PAVING ONLY ACCEPTABLE WITH WRITTEN APPROVAL FROM HIGHWAY ENGINEER

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DECOMMISSIONING/DEMOLITION.

Notes

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH DRAWINGS 042912-BHE-XX-XX-DR-C-2301 to 2304.
- CONTRACTOR TO CONFIRM THE CBR VALUE PRIOR TO CONSTRUCTION. THE FOUNDATION IS ASSUMED TO BE MIN. 5% UNLESS OTHERWISE STATED.
- WHEN PREPARING FORMATIONS, ALL SOFT SPOTS SHALL BE REMOVED AND REPLACED WITH SUITABLE FILL MATERIAL. ANY OBSTRUCTIONS ENCOUNTERED SHALL ALSO BE REMOVED. THE FINAL SURFACE OF ALL FORMATIONS SHALL BE WELL ROLLED SMOOTH, FREE FROM MOVEMENT UNDER COMPACTION PLANT AND FREE FROM RIDGE CRACKS LOOSE MATERIALS, RUTS OR THE DEFECTS.
- GEOTEXTILE TO BE USED BELOW SUB BASE IF CBR FOUND TO BE LESS THAN 3%.
- MIN. 450mm THICKNESS FOR NON FROST SUSCEPTIBILITY, I.E TOTAL BUILD UP, FOR CARRIAGEWAY/DRIVEWAY.
- EXISTING PAVEMENT BUILD-UPS TO BE OBTAINED FROM MANCHESTER CITY COUNCIL. THESE EXISTING BUILD-UPS WILL DETERMINE HOW MUCH THE EXISTING ROAD SURFACE WILL BE STRIPPED BACK IN ORDER TO ACHIEVE THE REQUIRED BUILD-UPS FOR THE PROPOSED ROADS LOADING REQUIREMENTS.
- ALL BEDDING, PRIMER AND JOINTING MATERIALS FOR NATURAL STONE AND CLAY PAVERS SHALL COMPLY WITH BS 7533 AND CONCRETE TO COMPLY WITH MCHW CLAUSE 2602.
- TYPE 1 GRANULAR MATERIAL TO COMPLY WITH MCHW CLAUSE 803.

B	FOR MCC REVIEW	05.05.2021	JS	JMS
A	FOR INFORMATION	08.12.2020	HN	JS
Rev	Description	Date	Drm	Ch'd

INFORMATION

Status of drawing

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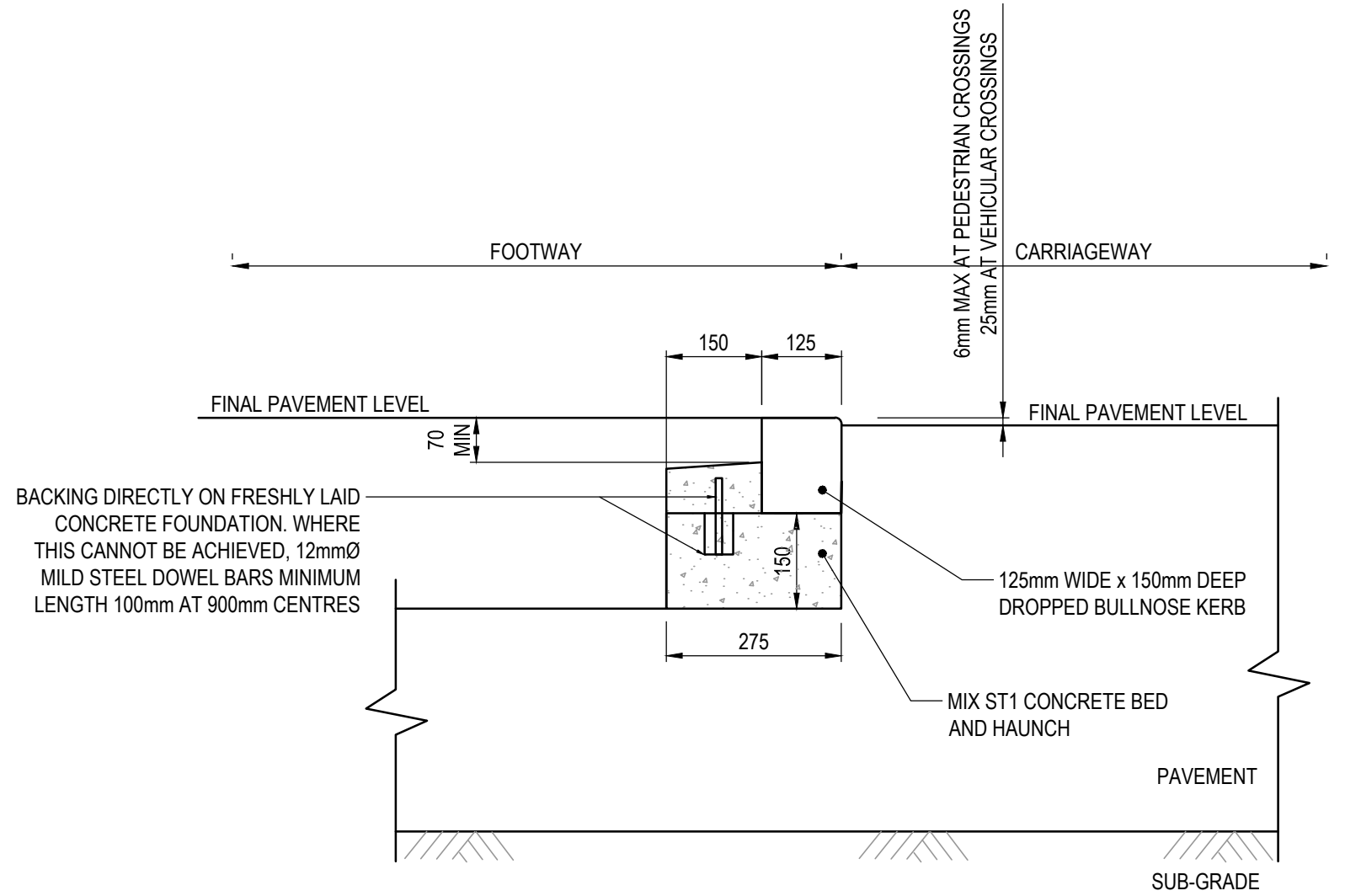
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Architect SEW
Project MAYFIELD DEVELOPMENT PARTNERSHIP
Drg Title HIGHWAY WORKS
PROPOSED PAVING DETAILS
SHEET 1

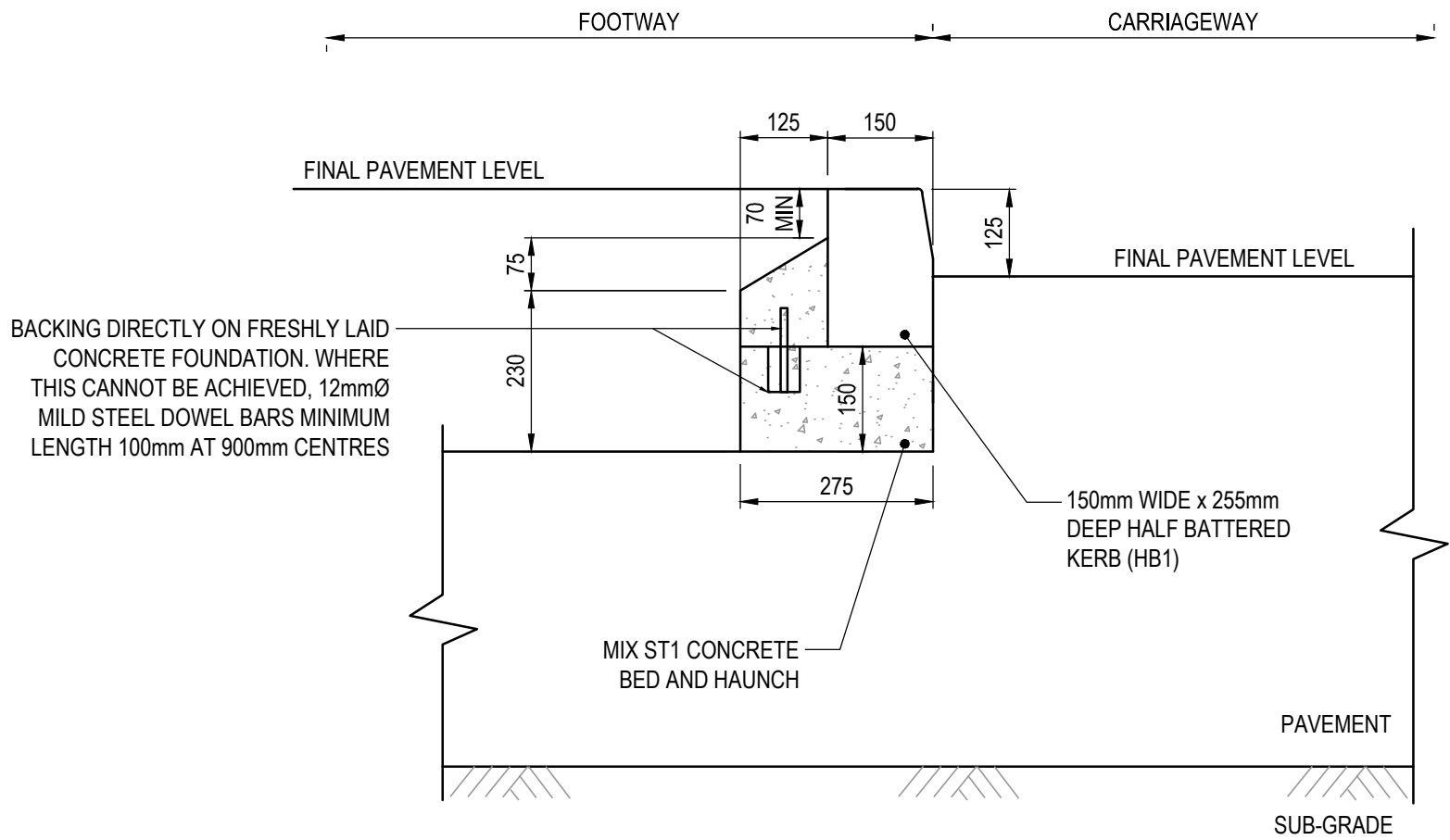
Scales@A1 AS SHOWN
Drawn by HN
Checked by JS

Job No. 0042912
Date NOVEMBER 2020
Rev B

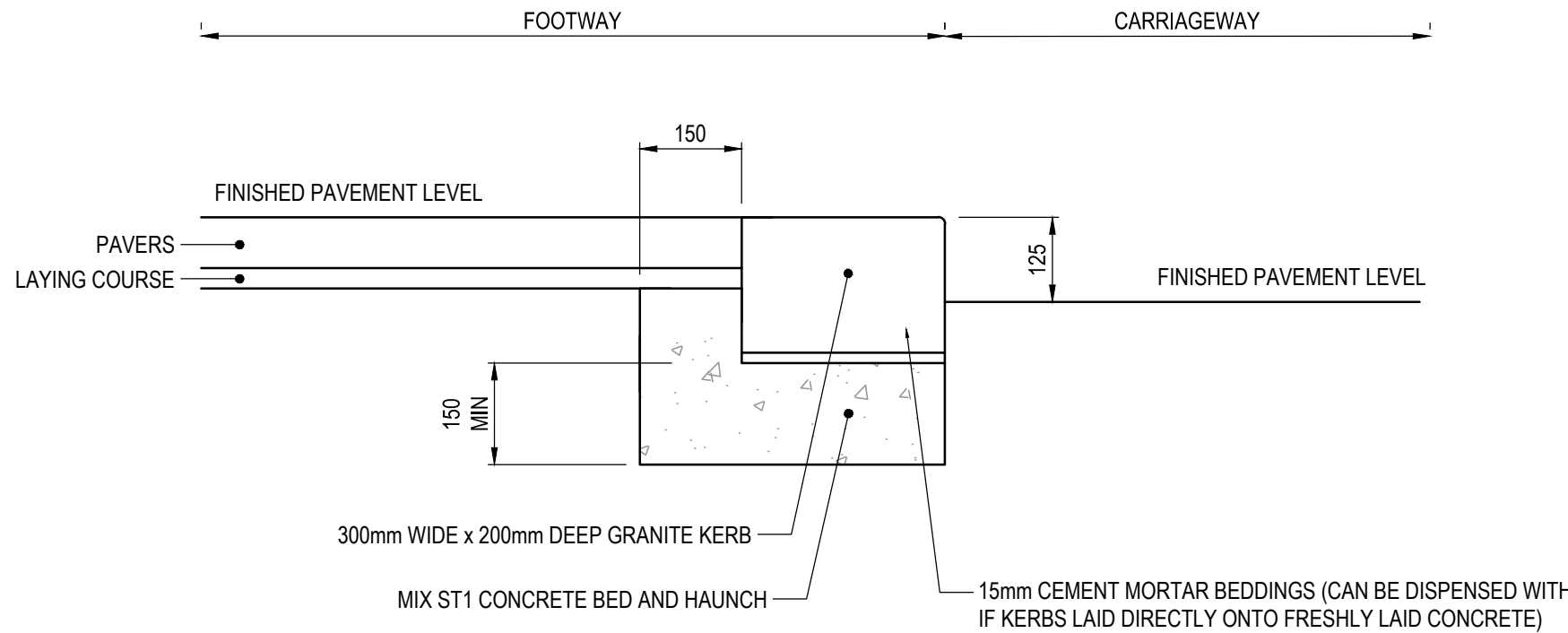
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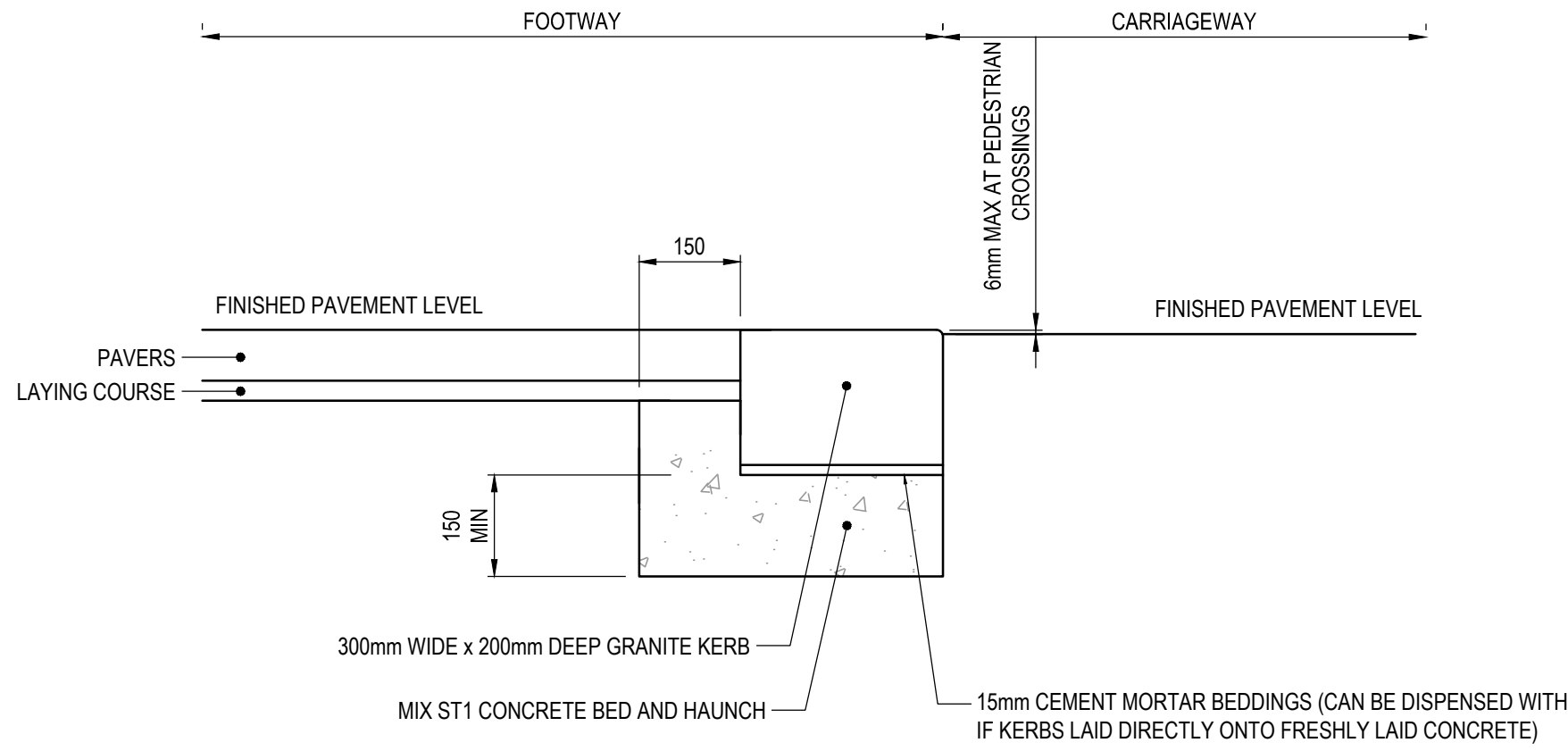
**TYPICAL DROPPED AND FLUSH
KERB DETAIL (TYPES DK & K2)**
(AS PER MCC'S K2 DETAIL)



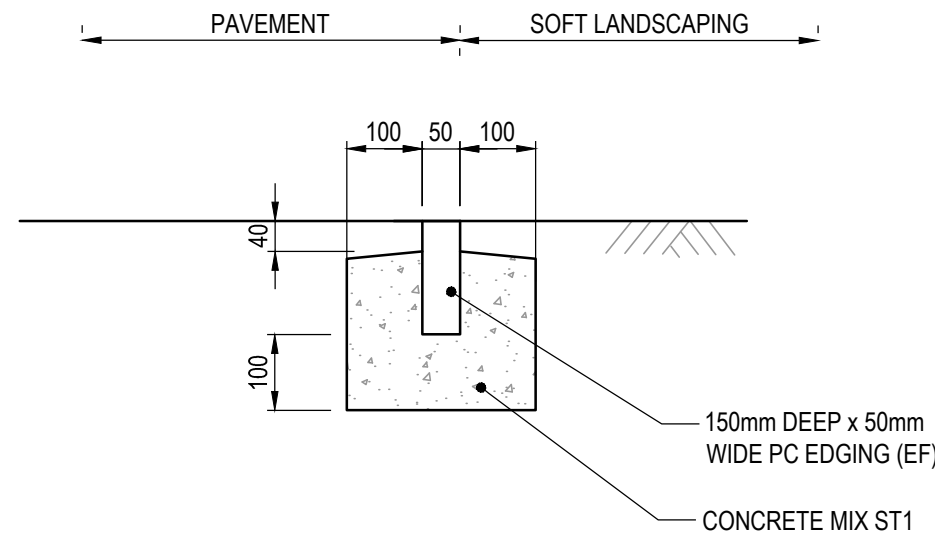
**PRECAST CONCRETE HALF
BATTERED KERB (TYPE K1)**
(AS PER MCC'S K1 DETAIL)



**TYPICAL GRANITE KERB WITH
UPSTAND DETAIL (TYPE K3)**



**TYPICAL DROPPED AND FLUSH
GRANITE KERB DETAIL
(TYPES DK1 & K4)**



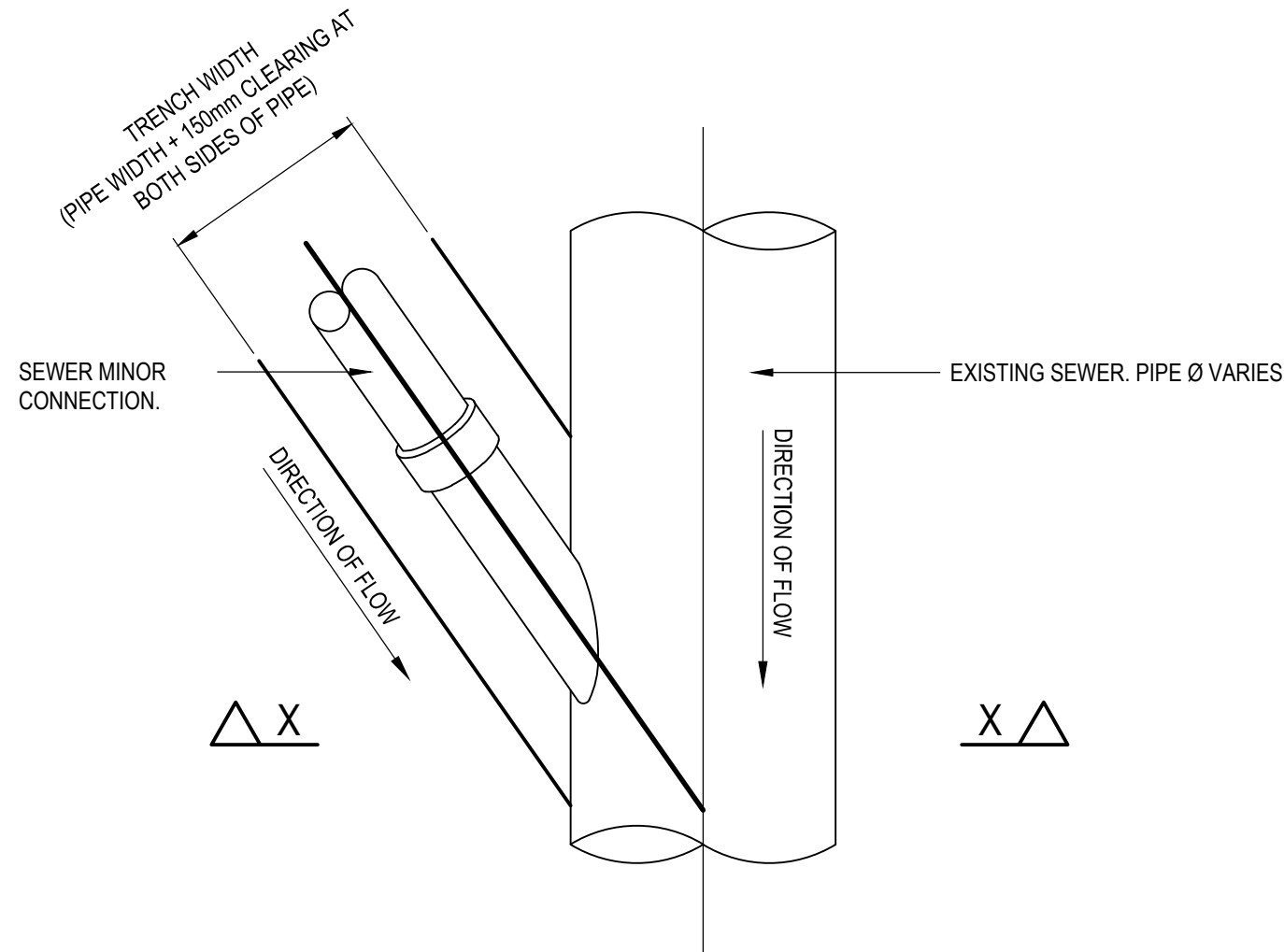
**PRECAST CONCRETE PIN KERB
DETAIL (TYPES DK2 & K5)**
(BASED ON MCC'S K5 DETAIL)

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MAINTENANCE/CLEANING/OPERATION.			
DECOMMISSIONING/DEMOLITION.			
Notes			
1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH DRAWINGS 042912-BHE-XX-XX-DR-C-2301 to 2304.			
2. CONTRACTOR TO CONFIRM THE CBR VALUE PRIOR TO CONSTRUCTION. THE FOUNDATION IS ASSUMED TO BE MIN. 5% UNLESS OTHERWISE STATED.			
3. WHEN PREPARING FORMATIONS, ALL SOFT SPOTS SHALL BE REMOVED AND REPLACED WITH SUITABLE FILL MATERIAL. ANY OBSTRUCTIONS ENCOUNTERED SHALL ALSO BE REMOVED. THE FINAL SURFACE OF ALL FORMATIONS SHALL BE WELL ROLLED SMOOTH, FREE FROM MOVEMENT UNDER COMPACTION PLANT AND FREE FROM RIDGE CRACKS LOOSE MATERIALS, RUTS OR THE DEFECTS.			
4. KERBS' CONCRETE BEDDING AND BACKING SHALL BE TYPE ST1 TO MCHW CLAUSE 2602 TABLE 26 AND CEMENT SHALL BE ORDINARY PORTLAND CEMENT TO BS EN 197-1.			
5. PRE-CAST CONCRETE KERBS SHALL COMPLY WITH BS EN 1340: 2003.			
6. IN THE CASE OF NEW CARRIAGEWAY CONSTRUCTION THE SUB-BASE LAYER IS EXTENDED 300mm BEYOND THE BACK OF KERB FOUNDATION THE CONTRACTOR SHALL ALLOW FOR FILLING IN BETWEEN THE ROAD SUB-BASE AND THE FOOTWAY FORMATION WITH SUB-BASE MATERIAL IN THE RATE FOR KERBING.			
7. KERBS LAID IN EXISTING CARRIAGEWAY FORMATION - INFILL OF OVERBREAK IN FRONT OF KERB WITH CONCRETE TYPE ST2 TO BINDER COURSE FINISH LEVEL AND RESURFACE CHANNEL STRIP 300mm WIDE AS REQUIRED.			
8. GRANITE KERBS TO BE SOURCES LOCALLY (WITHIN EUROPE).			

A	FOR MCC REVIEW	05.05.2021	JS	JS
Rev	Description	Date	Drm	Chd

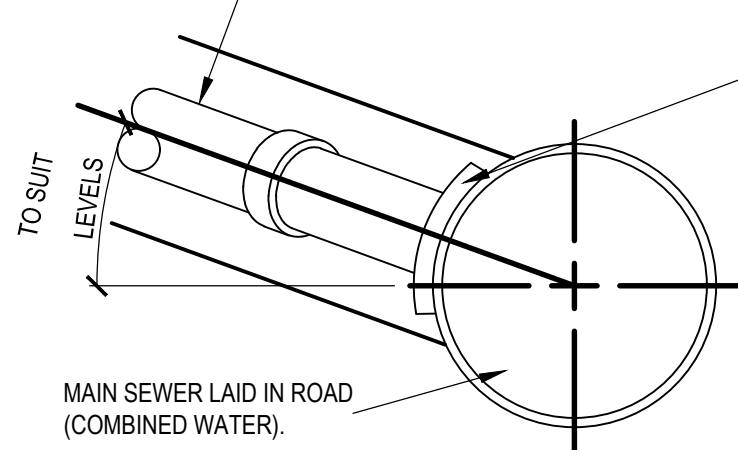
INFORMATION	
Status of drawing	

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Architect	SEW
Project	MAYFIELD DEVELOPMENT PARTNERSHIP
Drg Title	HIGHWAY WORKS PROPOSED PAVING DETAILS SHEET 2
Scales@A1	AS SHOWN
Drawn by	HN
Checked by	JS
Job No.	0042912
Date	NOVEMBER 2020
Rev	A
Drawing No.	0042912-BHE-XX-XX-DR-C-2801



PLAN

FOR ROAD GULLY CONNECTIONS, ALL PIPES TO BE 1500 SUPER STRENGTH VITRIFIED CLAY TO SHW TO CLAUSE 501.



SECTION X-X

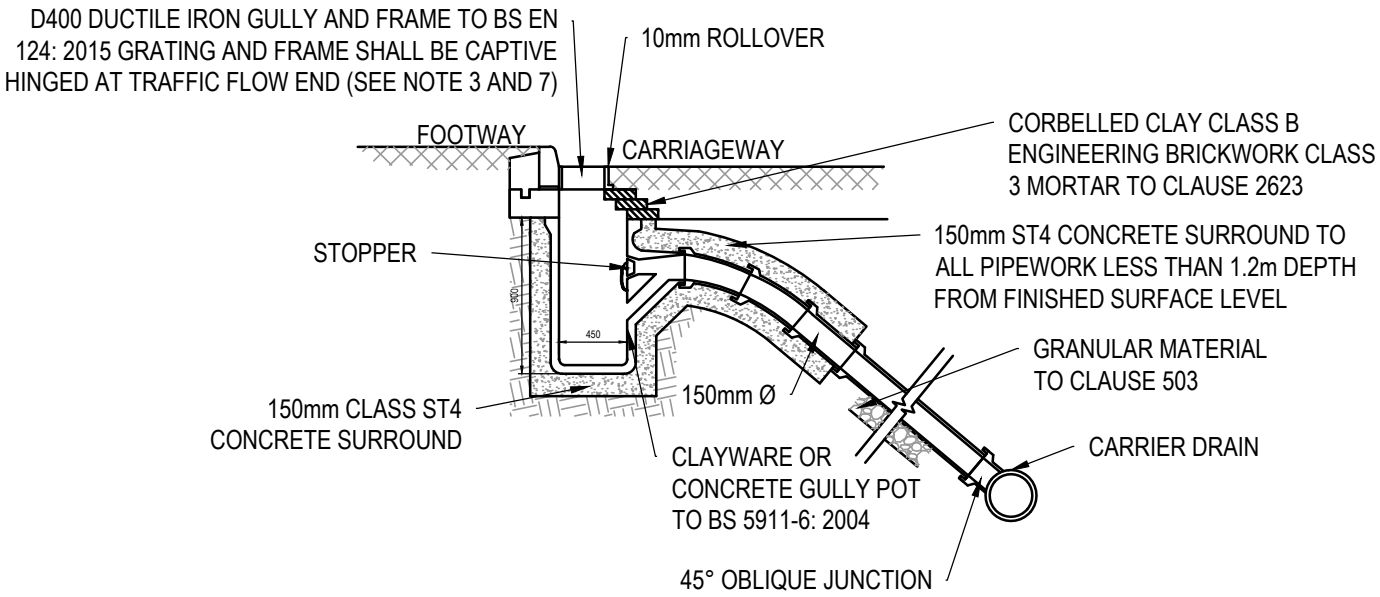
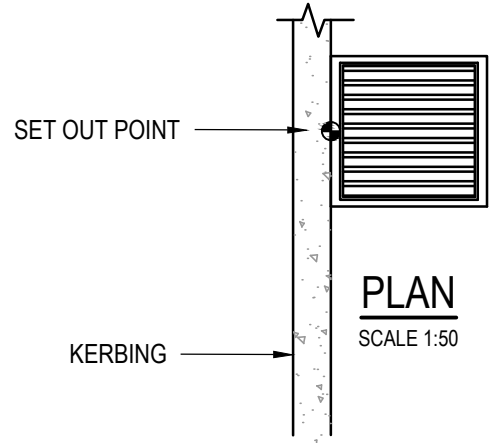
MINOR TO MAIN SEWER CONNECTIONS:

1. WHERE THE MAIN SEWER IS 225mm OR LESS, BRANCH CONNECTION SHOULD BE MADE BY INSERTING A NEW OBLIQUE ANGLED JUNCTION PIPE USING BANDSEA / FLEXSEAL COUPLINGS OR SIMILAR APPROVED.
2. WHERE THE MAIN SEWER IS GREATER THAN 225mm AND LESS OR EQUAL TO 450mm, OBLIQUE ANGLED SADDLE CONNECTIONS MAY BE USED, PROVIDED THAT THE INTERNAL DIAMETER OF THE CONNECTING PIPEWORK IS LESS THAN A THIRD OF THE PUBLIC SEWER.
3. PIPE SADDLES FOR CONCRETE OR CLAY SEWERS SHALL BE BEDDED IN CLASS M1 CEMENT MORTAR AND A CEMENT MORTAR FILLET FORMED TO GIVE AT LEAST 50mm COVER TO THE BASE OF THE SADDLE.

TYPICAL SADDLE CONNECTION
TO EXISTING SEWER
NTS

PIPE DIA.	GRANULAR BEDDING			CONCRETE BEDDING	MIN. TRENCH WIDTH	MAX. TRENCH WIDTH	L
	Y1 MIN.	Y2 MIN.	Y3 MIN.				
100	100	200	150	450	750		18
150	100	200	150	500	800		
225	100	200	150	600	900		
300	100	200	150	700	1000		
375	100	200	150	805	1105		
450	150	200	150	890	1190		36
525	150	200	150	975	1275		
600	150	200	150	1075	1375		
675	150	200	225	1165	1465		
750	225	300	225	1260	1560		
825	225	300	225	1355	1655		
900	225	300	225	1460	1760		
975	225	300	300	1505	1805		
1050	225	300	300	1580	1880		
1125	225	350	300	1650	1950		
1200	375	400	300	1750	2050		54
1350	375	400	375	1920	2220		
1500	375	450	375	2040	2340		
1650	375	500	450	2210	2510		
1800	375	500	450	2390	2690		

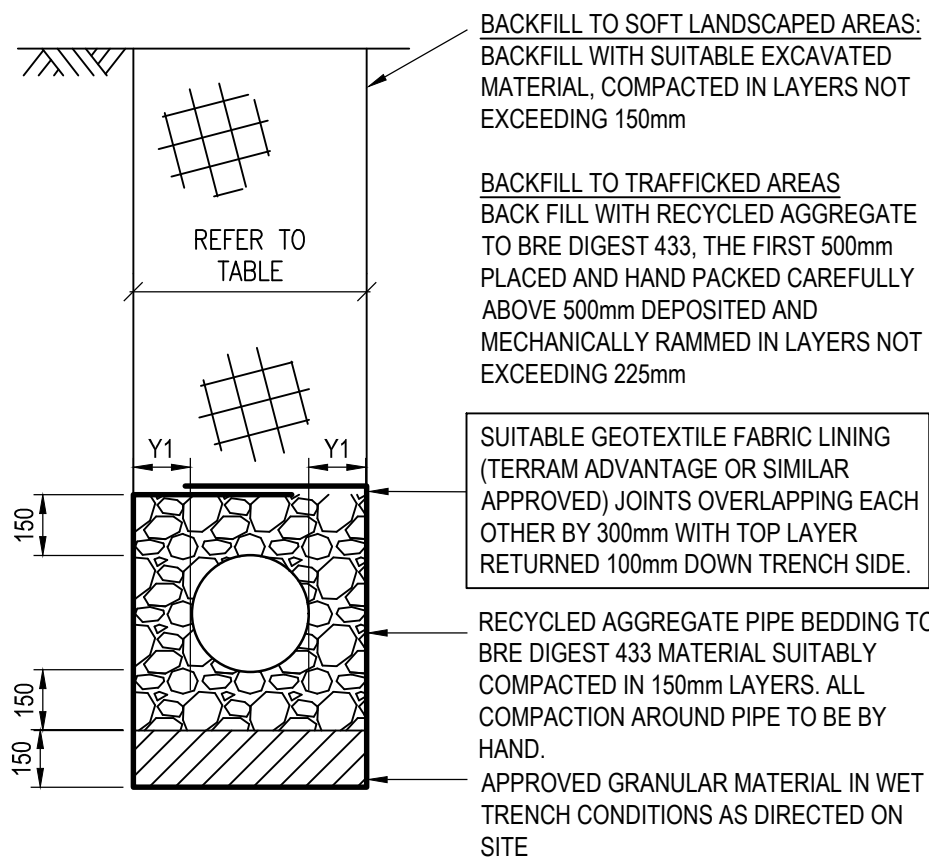
DIMENSIONS FOR BEDDINGS AND TRENCH
WIDTHS



NOTES:

1. GULLY: ALL TO CLAUSE 508
a STANDARD GULLY POT OF 95 LITRES CAPACITY (450MM Ø)
b SMALL GULLY POT TO BE 50 LITRES CAPACITY (375MM Ø)
2. MAXIMUM TRENCH WIDTH FOR 150MM GULLY LEAD IS 600MM
3. CLAUSE NUMBERS REFER TO DEPT. OF TRANSPORT SPECIFICATION FOR HIGHWAY WORKS AMENDED AS APPROPRIATE
4. NUMBER OF BENDS MAY VARY DUE TO SITE DIFFERENCES
5. CONCRETE TO COMPLY WITH CLAUSE 2602 TABLE 26/1
6. CONCRETE SURROUND TO PIPES SHALL ALWAYS FINISH AT A JOINT
7. GULLY GRATINGS - STANDARD DETAIL D47

ROAD GULLY ON KERB LINE
(AS PER MCC's D12 DETAIL)
SCALE 1:50



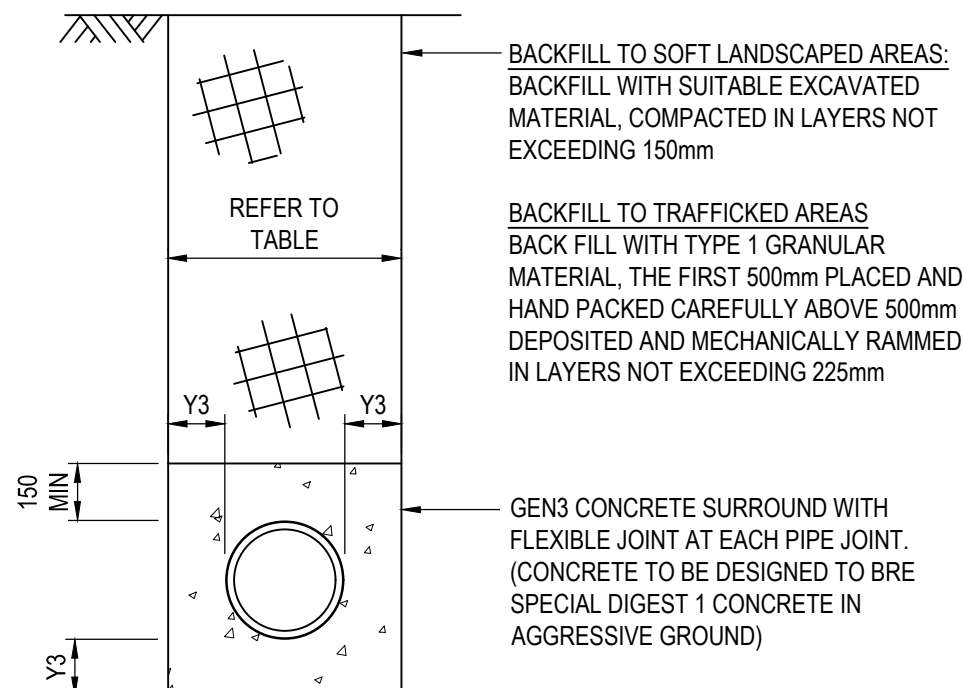
GRANULAR (CLASS S)

>1200mm DEPTH TO SOFFIT IN ROADS AND PAVEMENTS

DIMENSION 'Y1' TO BE 100mm MIN. UNLESS OTHERWISE SPECIFIED OR DIRECTED BY THE ENGINEER

Y2 IS TO BE USED IN PLACE OF Y1 WHERE THE EXCAVATION IS IN ROCK OR IN MIXED SOILS CONTAINING ROCK BEDS, BOULDERS, LARGE FLINTS, STONES OR OTHER IRREGULAR HARD SPOTS.

FOR ADOPTABLE SEWER, GRANULAR SURROUND MIN. THICKNESS OF 300 ABOVE CROWN OF PIPES.



CONCRETE (CLASS Z)

<1200mm DEPTH TO SOFFIT IN ROADS AND PAVEMENTS.

ALL JOINTS IN CLASS Z BEDDING SHOULD BE FLEXIBLE JOINTS FORMER BY COMPRESSIBLE FILLER BOARD (THICKNESS 20mm)

BEDDING CLASSES

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CONSTRUCTION

MAINTENANCE/CLEANING/OPERATION

DECOMMISSIONING/DEMOLITION

Notes

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. THIS DRAWING SHOULD BE READ INCONJUNCTION WITH DRAWINGS 042912-BHE-XX-XX-DR-C-2501 to 2504 FOR DRAINAGE LAYOUT PLAN.

B	FOR MCC REVIEW	05.05.2021	JS	JS
A	FOR INFORMATION	08.12.2020	HN	JS
Rev	Description	Date	Drm	Cr'd

INFORMATION

Status of drawing

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Architect

SEW

Project

MAYFIELD DEVELOPMENT PARTNERSHIP

Drg Title

HIGHWAY WORKS
PROPOSED DRAINAGE DETAILS
SHEET 1

Scales@A1 AS SHOWN

Drawn by

HN

Checked by

JS

Job No.

0042912

Date

NOVEMBER 2020

Rev

B

Drawing No.

0042912-BHE-XX-XX-DR-C-2850