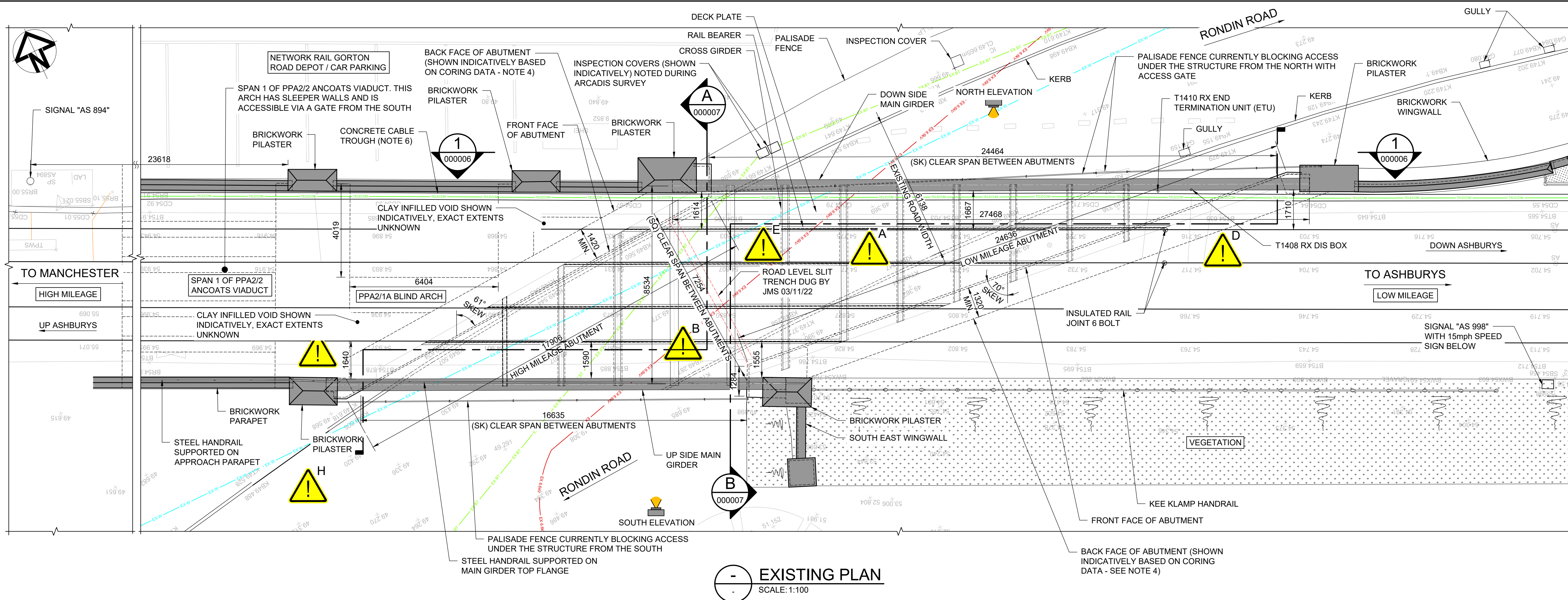




EXISTING PLAN
SCALE: 1:100

LEGEND:

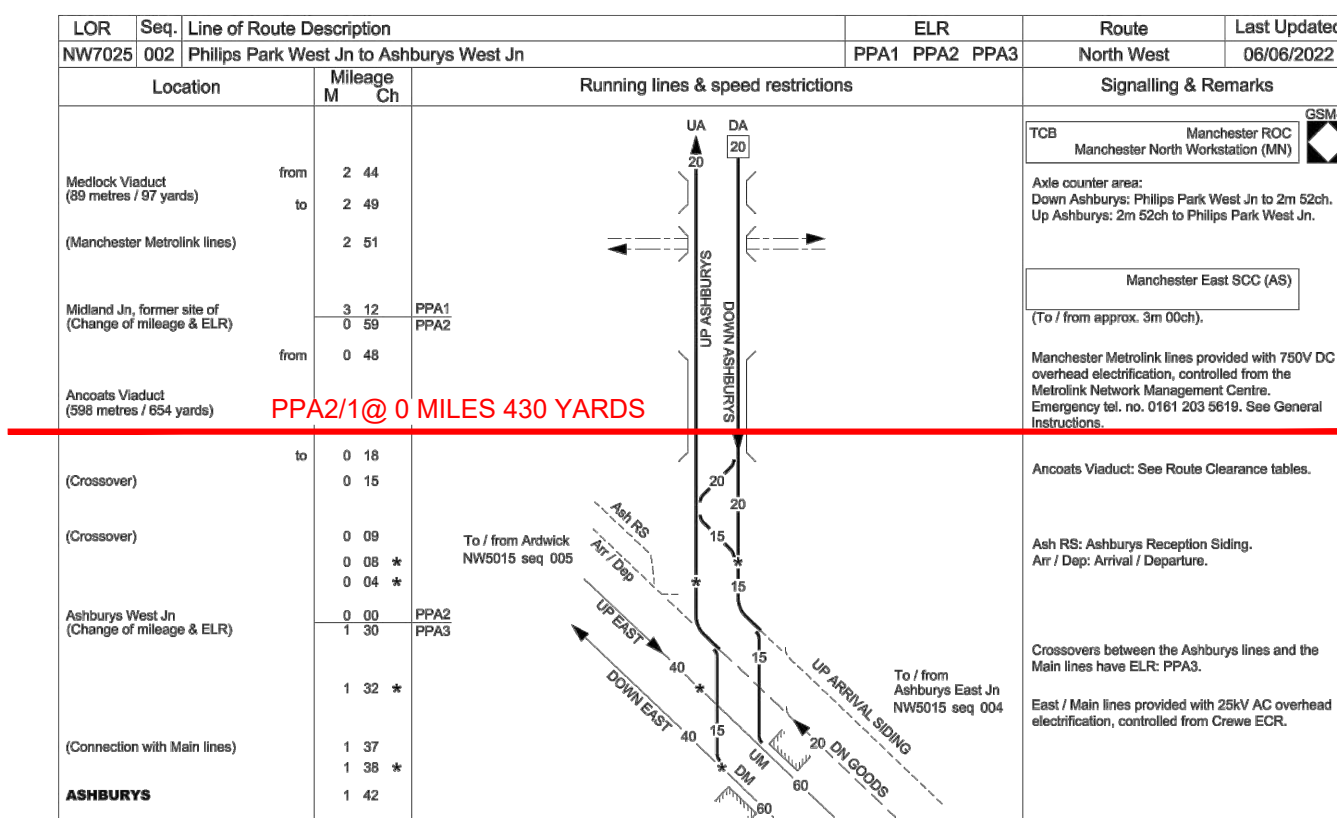
SQ	-	SQUARE DIMENSION
SK	-	SKREW DIMENSION
	-	LOCATION OF ROAD LEVEL SLIT TRENCH DUG BY JMS TO VERIFY SERVICES
	-	LOCKED LID CONCRETE CABLE TROUGH (ASSUMED C/1/9 SIZE)

KEY TO BURIED SERVICES

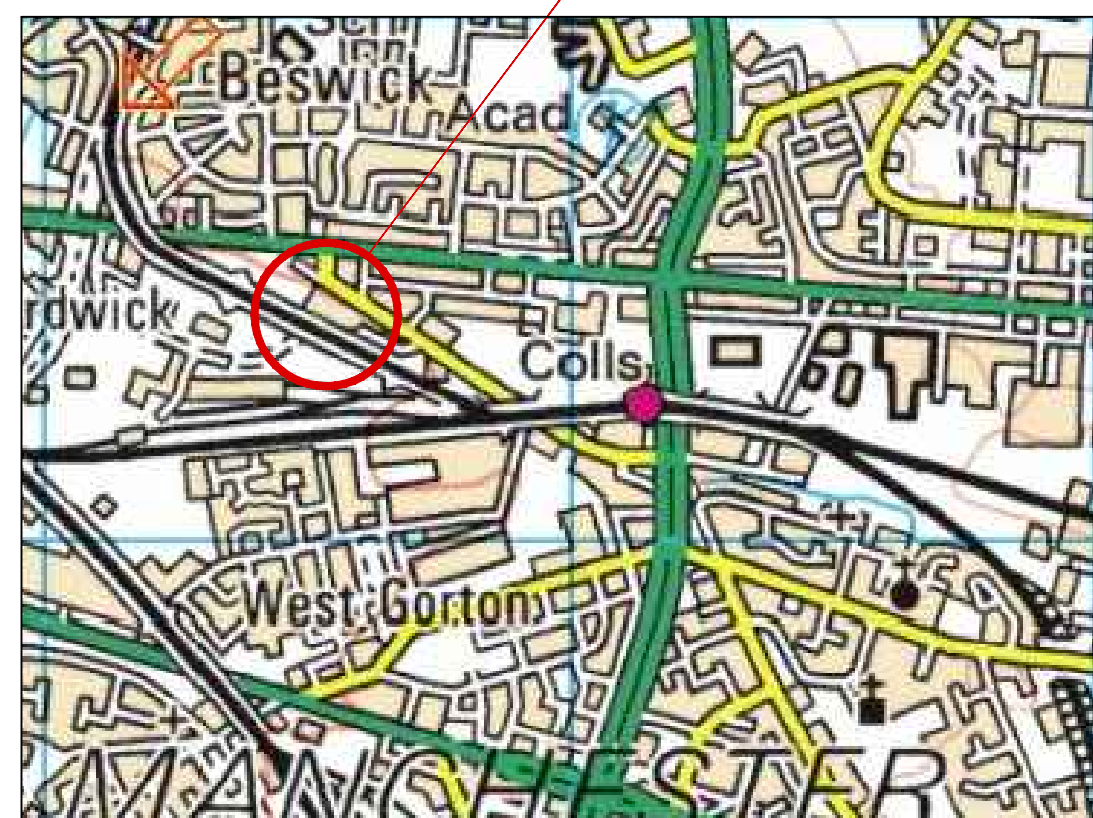
	TELECOM	VODAFONE TELECOMS CABLE (LEASED) ASSUMED TO BE IN CONCRETE CABLE TROUGH
	EX 6.6V	6NO. ELECTRICITY NORTH WEST 6.6KV ELECTRIC CABLES (0.7m BGL)
	EX W	UNITED UTILITIES 225 DIA. WATER MAIN (1.2m BGL)
	EX BT	2NO. OPENREACH BT CABLE DUCTS (0.5m BGL W/ CONCRETE SURROUND)

EXISTING DECK WEIGHTS IN TONNES (APPROX.)			
	UNIT WEIGHT (t)	NO. UNITS	TOTAL WEIGHT (t)
NORTH MAIN GIRDER	16.1	1	16.1
SOUTH MAIN GIRDER	9.8	1	9.8
CROSS GIRDER	VARIABLES (MIN. 0.25, MAX. 3)	12	15.1
RAIL BEARER	VARIABLES (MIN. 1.2, MAX. 1.5)	4	5.2
DECK PLATE	14.8	1	14.8
SIDL (BALLAST)	-	-	91.3
TOTAL WEIGHT (INC. 10% STEEL CONNECTIONS)			
158.4			

MINIMUM CONSTRUCTION DEPTH (m)	
RAIL, STEEL SLEEPER (102mm) & BALLAST	0.474m
CROSS GIRDER	0.489m
TOTAL	0.963m



PPA2 SECTIONAL APPENDIX



LOCATION PLAN
SCALE: NTS
(OS GRID REF: SJ 8652 9740)



SOUTH ELEVATION
(PHOTO AS TAKEN IN 2022)



NORTH ELEVATION
(PHOTO AS TAKEN IN 2022)

HAZARD SUMMARY TABLE		
	SIGNIFICANT DESIGNER'S IDENTIFIED HAZARDS	LIFE SAVING RULES
	SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
THE FOLLOWING NOTES HIGHLIGHT SIGNIFICANT RESIDUAL HAZARD IDENTIFIED BY THE DESIGNER. TYPICAL HAZARDS THAT SHOULD BE IDENTIFIED BY A COMPETENT CONTRACTOR ARE NOT INCLUDED. THE CONTRACTOR SHALL CARRY OUT THE WORKS USING AN APPROVED SAFE SYSTEM OF WORK.		
SHOULD ANY ADDITIONAL HAZARDS BE IDENTIFIED DURING THE COURSE OF THE WORKS, THE CONTRACTOR SHALL NOTIFY ALL RELEVANT MEMBERS OF THE PROJECT TEAM.		
DRUGS / ALCOHOL TRAINING & COMPETENCY NO MOBILE PHONES CORRECT EQUIPMENT OBEY DRIVING RULES		
EARTHING EXCLUSION ZONE PLANS AND PERMITS SAFETY HARNESS AT HEIGHT ISOLATION		
A	WORKING ADJACENT TO BURIED SERVICES AND S&T INFRASTRUCTURE	
B	POTENTIAL TEMPORARY INSTABILITY OF ABUTMENTS DURING BRIDGE DEMOLITION	
D	SIGNALLING EQUIPMENT ATTACHED TO THE INSIDE FACE OF THE NORTHERN MAIN GIRDER	
E	WORKING IN AN AREA WITH LIMITED CLEARANCE	
H	WORKING IN AREA WITH RESTRICTED ACCESS UNDER STRUCTURE / POTENTIAL FOR ANTI-SOCIAL BEHAVIOUR & SHARPS	
FOR MORE DETAILED INFORMATION PLEASE REFER TO THE DESIGNER'S H&S RISK ASSESSMENT REF.: 10047371-ARC-11-XX-RA-CE-000001.		

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 - RONDIN ROAD BURIED SERVICES SHOWN ARE BASED ON SUPPLIED BURIED SERVICES INFORMATION AND ON SLIT TRENCH UNDERTAKEN BY MURPHYS IN NOVEMBER 2022.
 - TRACKSIDE CABLE SURVEY BY MURPHYS COMPLETED IN AUGUST 2020. LOCATIONS OF THE FOLLOWING CABLES IN THE DOWN CESS CONTAINED WITHIN A LOCKED LID CONCRETE CABLE TROUGH.
 - 6 NO. TRACK CABLES
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 - 1 NO. POWER CABLE
 - 2 NO. FIBRE OPTIC CABLES
 - 3 NO. TELECOM CABLES
 - 2 NO. RETURN CABLES
 - 1 NO. SPT CABLES
 - 7 NO. TELECOM CABLES
 - EXISTING STRUCTURE DRAINAGE UNKNOWN.

Rev	Date	Description	Drawn	Check	Approv
A01	22/02/23	FORM A FOR APPROVAL	GF	JC	DB



PROJECT:
LNW FRAMEWORK CP6
OP No. 164698



Registered office:
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80 Fenchurch Street
London E3CM 4BY

Coordinating office:
5th Floor, 401 Faraday Street,
Birchwood Park,
Warrington WA3 6GA
Tel: 44 (0)1925 800700

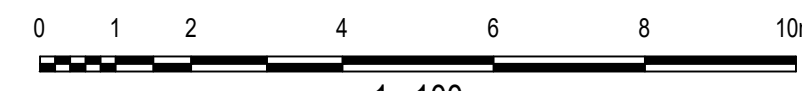
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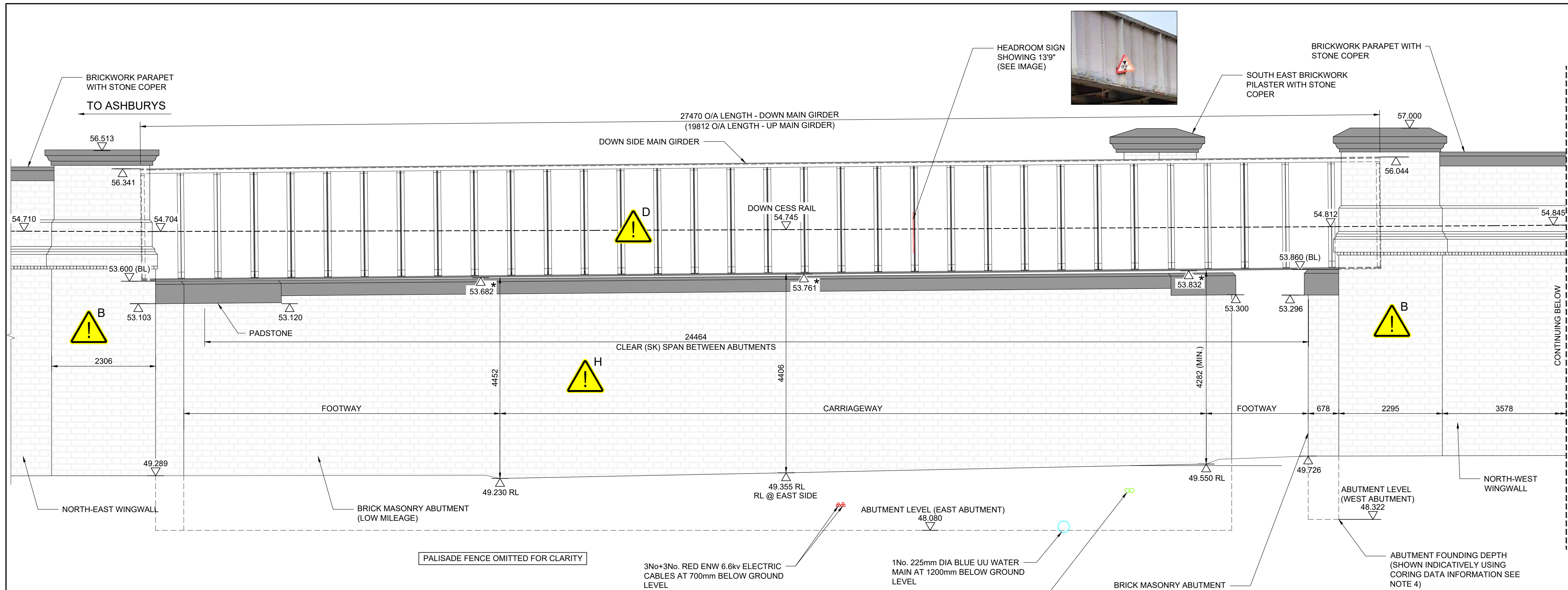
TITLE:
PPA2/1 RONDIN ROAD
UNDERBRIDGE
EXISTING GENERAL
ARRANGEMENT PLAN

Designed	A.LITTLEWOOD	Signed		Date	22-02-2023
Drawn	G.FERNANDES	Signed		Date	22-02-2023
Checked	J.CUNIFFE	Signed		Date	22-02-2023
Reviewed	D. BEEVER	Signed		Date	22-02-2023
Approved	D. BEEVER	Signed		Date	22-02-2023
Scale:	As shown	Datum:	AOD		
Original Size:	A1	Grid:	TPEN16 SNAKEGRID		
ELR:	PPA2	Mileage:	0m 0430yds		
Suitability Code:	S3	Project Number:	10047371		

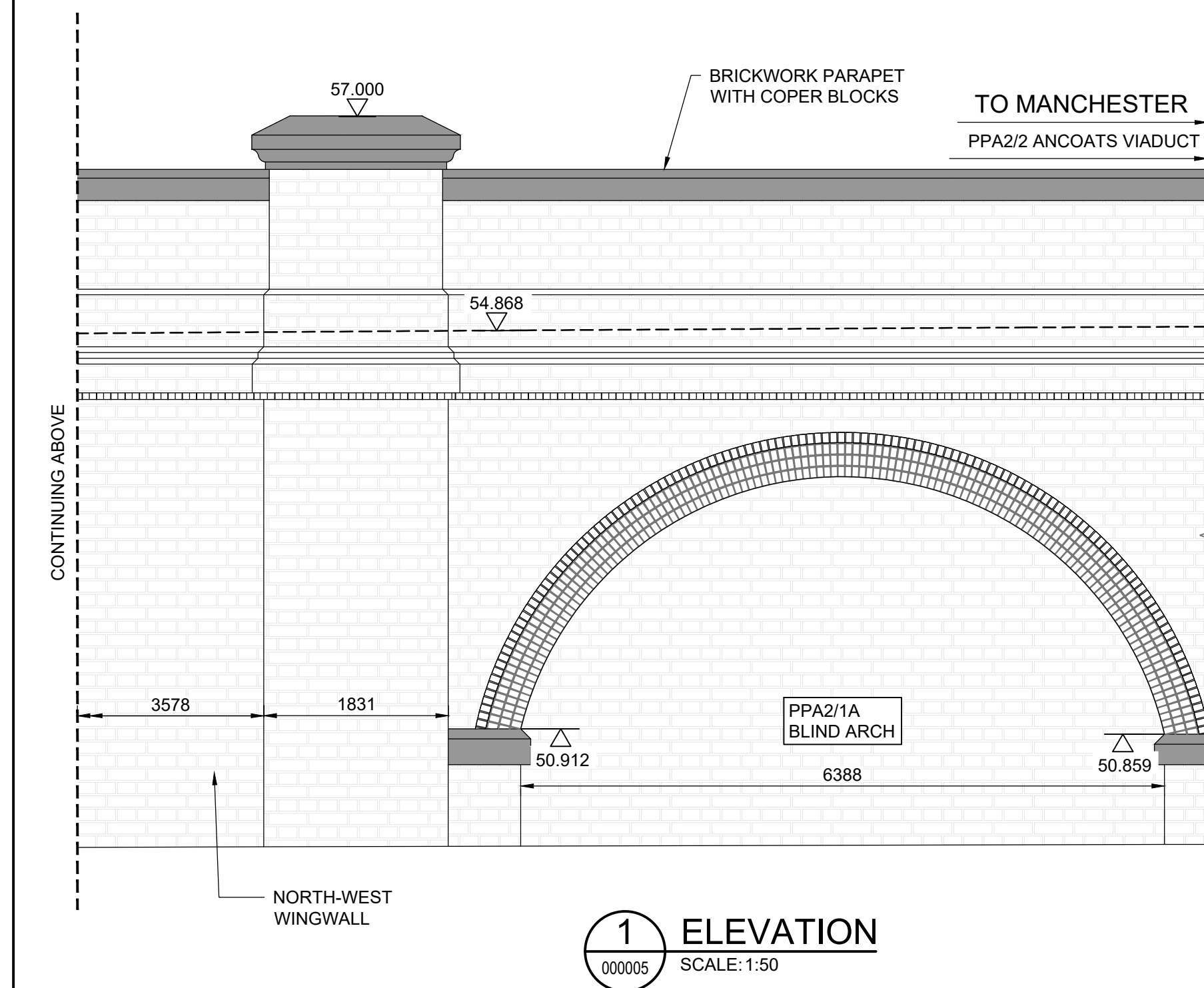
FORM A FOR APPROVAL

Drawing Number:	10047371-ARC-11-XX-DR-CE-000005	Revision:	A01
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1 ELEVATION
000005 SCALE: 1:50



1 ELEVATION
000005 SCALE: 1:50

KEY TO BURIED SERVICES:

6No. ELECTRICITY NORTH WEST 6.6kV ELECTRIC CABLES (0.7m BGL)
UNITED UTILITIES 225 DIA. WATER MAIN (1.2m BGL)
2No. OPENREACH BT CABLE DUCTS (0.5m BGL W/ CONCRETE SURROUND)

LEGEND:

O/A	-	OVERALL
SK	-	SKEW DIMENSION
BL	-	BEARING LEVEL
RL	-	ROAD LEVEL

* HEADROOM TAKEN TO UNDERSIDE OF CROSS GIRDER (15mm RIVET HEAD ASSUMED)

	HAZARD SUMMARY TABLE				
	SIGNIFICANT DESIGNER'S IDENTIFIED HAZARDS		LIFE SAVING RULES		
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SHOULD ANY ADDITIONAL HAZARDS BE IDENTIFIED DURING THE COURSE OF THE WORKS, THE CONTRACTOR SHALL NOTIFY ALL RELEVANT MEMBERS OF THE PROJECT TEAM					
 DRUGS / ALCOHOL  TRAINING & COMPETENCY  NO MOBILE PHONES  CORRECT EQUIPMENT  OBEY DURING RULES  EARTHING  EXCLUSION ZONE  PLANS AND PERMITS  SAFETY HARNESS AT HEIGHT  ISOLATION					
B	POTENTIAL TEMPORARY INSTABILITY OF ABUTMENTS DURING BRIDGE DEMOLITION				
D	SIGNALLING EQUIPMENT ATTACHED TO THE INSIDE FACE OF THE NORTHERN MAIN GIRDER				
H	WORKING IN AREA WITH RESTRICTED ACCESS UNDER STRUCTURE / POTENTIAL FOR ANTI-SOCIAL BEHAVIOUR & SHARPS				
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 - 7 NO. TELECOM CABLES
 - REFER TO DRAWING 10047371-ARC-11-XX-DR-CE-000005 FOR PLAN ARRANGEMENT OF SERVICES.

Rev	Date	Description	Drawn	Check	Approv
A01	22/02/23	FORM A FOR APPROVAL	GF	JC	DB

NetworkRail

MURPHY
WORLD-CLASS INFRASTRUCTURE

PROJECT:
LNW FRAMEWORK CP6
OP No. 164698

ARCADIS

Registered office: Arcadis Consulting UK Ltd, 80 Fenchurch Street, London E3CM 4BY
Coordinating office: 5th Floor, 401 Faraday Street, Birchwood Park, Warrington WA3 6GA
Tel: 44 (0)1925 800700
www.arcadis.com

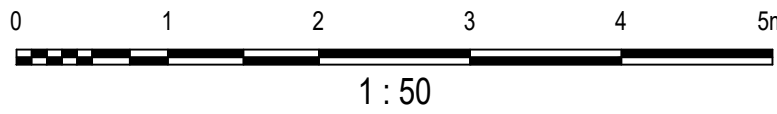
TITLE:
PPA2/1 RONDIN ROAD UNDERBRIDGE
EXISTING GENERAL ARRANGEMENT ELEVATION

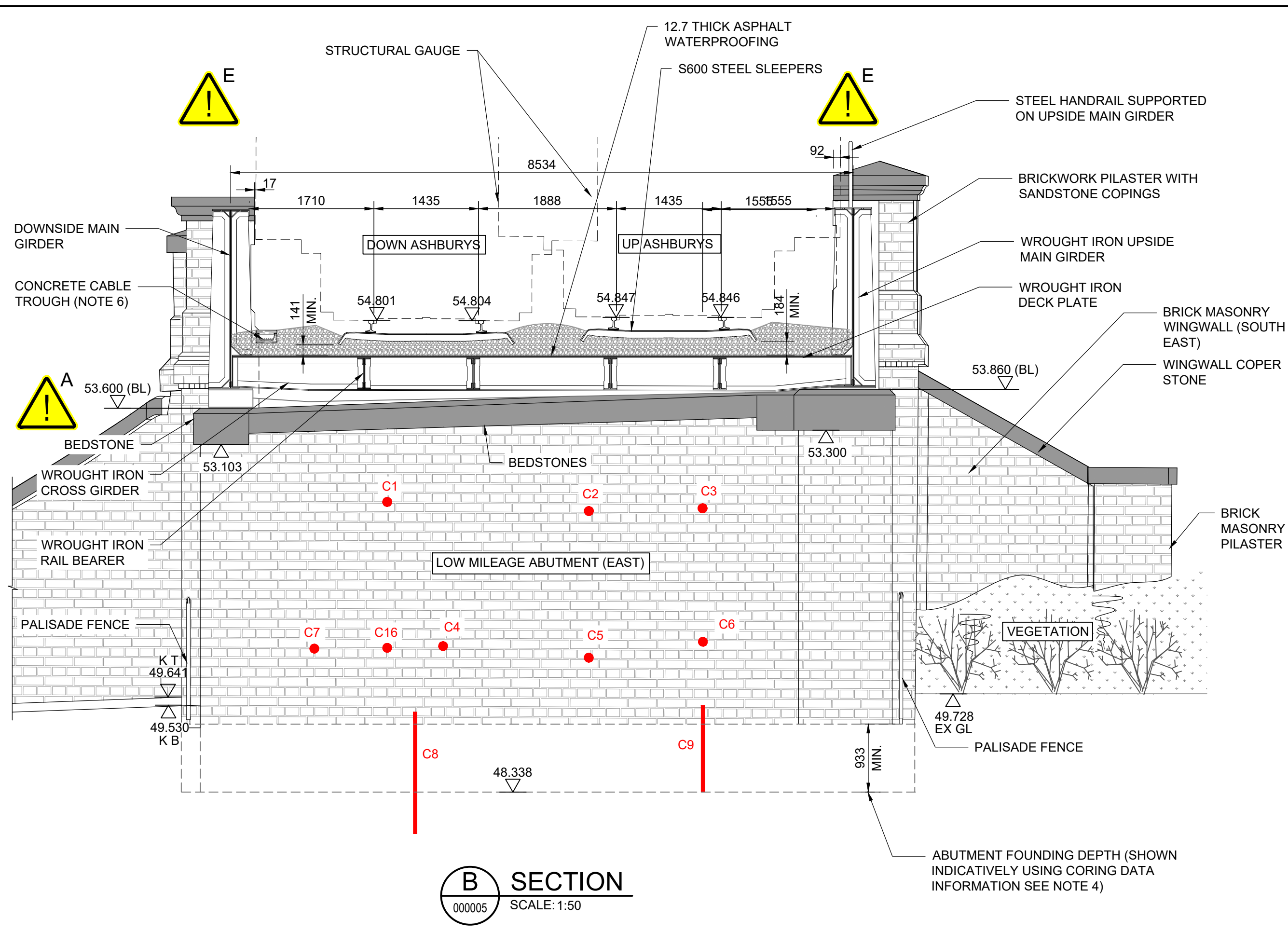
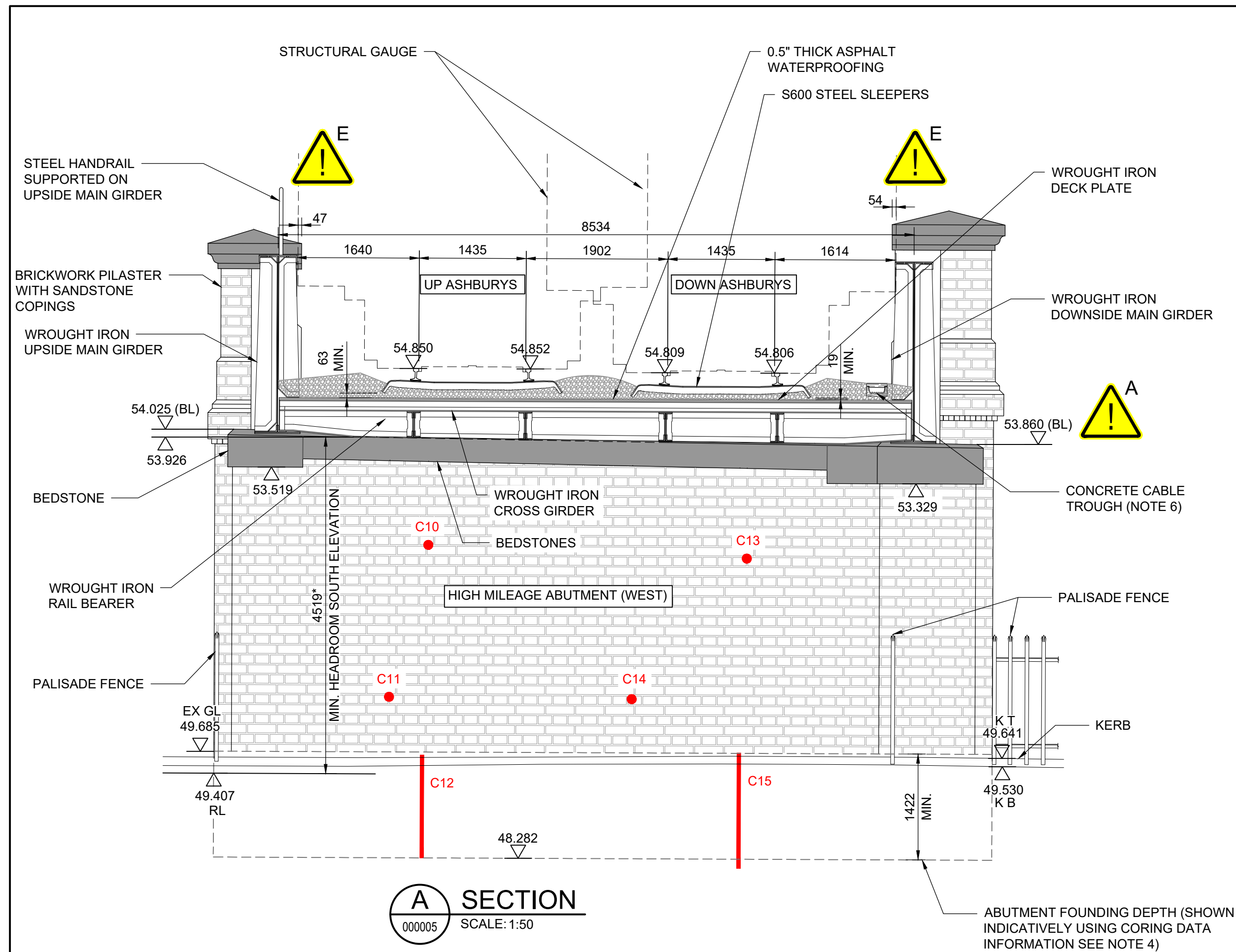
Designed	A.LITTLEWOOD	Signed	[Signature]	Date	22-02-2023
Drawn	G.FERNANDES	Signed	[Signature]	Date	22-02-2023
Checked	J.CUNNIFFE	Signed	[Signature]	Date	22-02-2023
Reviewed	D.BEEVER	Signed	[Signature]	Date	22-02-2023
Approved	D.BEEVER	Signed	[Signature]	Date	22-02-2023
Scale:	As shown	Datum:	AOD		
Original Size:	A1	Grid:	TPEN16 SNAKEGRID		
ELR:	PPA2	Mileage:	0m 0430yds		
Suitability Code:	S3	Project Number:	10047371		

Suitability Description:

FORM A FOR APPROVAL

Drawing Number: 10047371-ARC-11-XX-DR-CE-000006	Revision: A01
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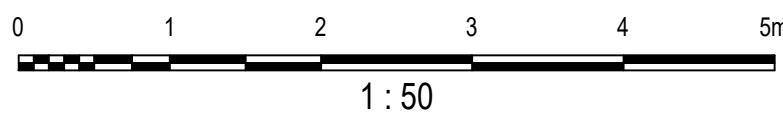
LOW MILEAGE ABUTMENT CORE DEPTHS	
REFERENCE	DEPTH
C1(HIGH)	2570
C2(HIGH)	1320
C3(HIGH)	1350
C4(LOW)	1760
C5(LOW)	1760
C6(LOW)	1570
C7(LOW)	1430
C8(INCLINED)	1676
C9(INCLINED)	1191
C16(LOW)	2700

HIGH MILEAGE ABUTMENT CORE DEPTHS	
REFERENCE	DEPTH
C10(HIGH)	2980
C11(LOW)	1420
C12(INCLINED)	1381
C13(HIGH)	2440
C14(LOW)	1420
C15(INCLINED)	2185

LEGEND:	
SK	- SKEW DIMENSION
BL	- BEARING LEVEL
RL	- ROAD LEVEL
KT	- KERB TOP LEVEL
KB	- KERB BOTTOM LEVEL
EXGL	- EXISTING GROUND LEVEL
	- ABUTMENT INCLINED CORES
	- ABUTMENT HORIZONTAL CORES

* HEADROOM TAKEN TO UNDERSIDE OF CROSS GIRDER (15mm RIVET HEAD ASSUMED)

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A	WORKING ADJACENT TO BURIED SERVICES AND S&T INFRASTRUCTURE
E	WORKING IN AN AREA WITH LIMITED CLEARANCE
• FOR MORE DETAILED INFORMATION PLEASE REFER TO THE DESIGNERS H&S RISK ASSESSMENT REF.: 10047371-ARC-11-XX-RA-CE-000001.	



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A01	22/02/23	FORM A FOR APPROVAL	GF	JC	DB
Rev	Date	Description	Drawn	Check	Approv



PROJECT:
LNW FRAMEWORK CP6
OP No. 164698

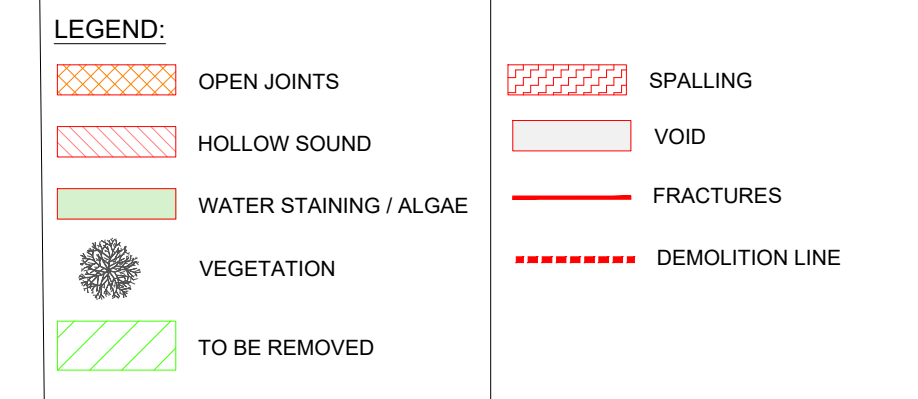
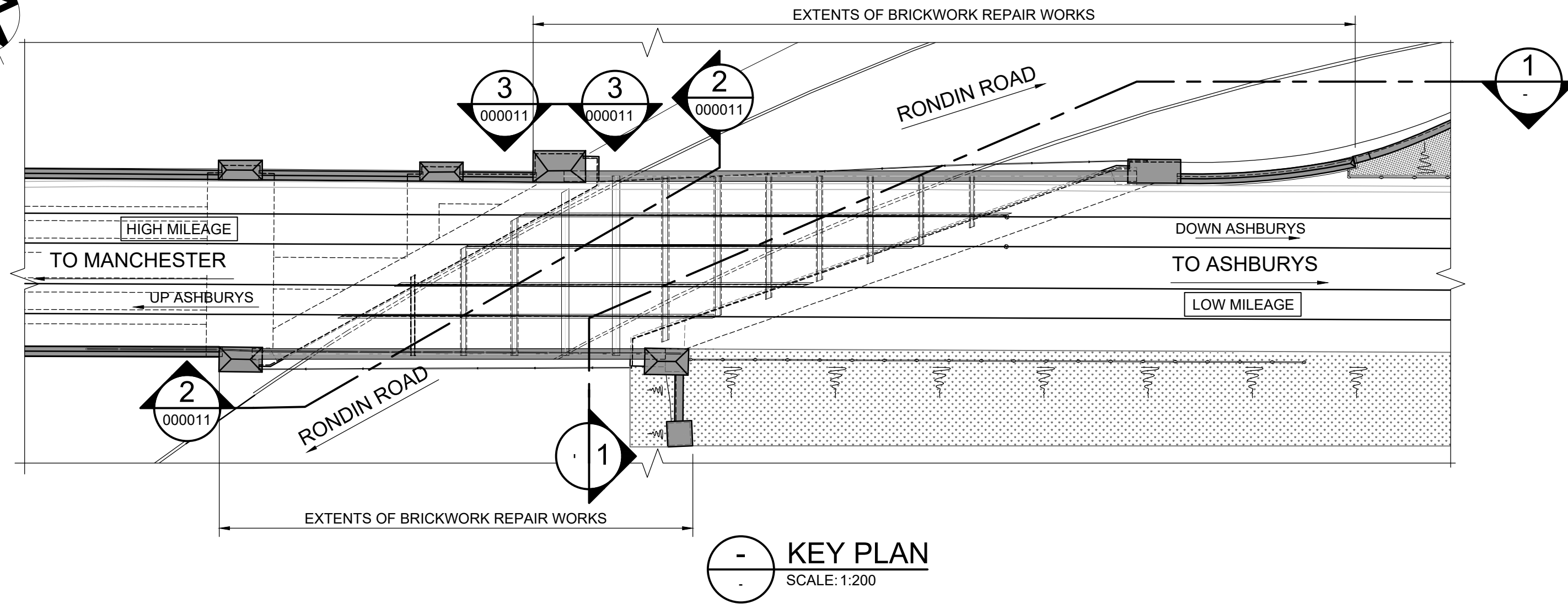
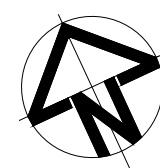


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TITLE:
PPA2/1 RONDIN ROAD
UNDERBRIDGE
EXISTING GENERAL ARRANGEMENT
SECTIONS

Designed	A.LITTLEWOOD	Signed		Date	22-02-2023
Drawn	G.FERNANDES	Signed		Date	22-02-2023
Checked	J.CUNNIFFE	Signed		Date	22-02-2023
Reviewed	D.BEEVER	Signed		Date	22-02-2023
Approved	D.BEEVER	Signed		Date	22-02-2023
Scale:	As shown	Datum:	AOD		
Original Size:	A1	Grid:	TPEN16 SNAKEGRID		
ELR:	PPA2	Mileage:	0m 0430yds		
Suitability Code:	S3	Project Number:	10047371		

Suitability Description:	
FORM A FOR APPROVAL	
Drawing Number: 10047371-ARC-11-XX-DR-CE-000007	Revision: A01



NOTES:

- DO NOT SCALE FROM DRAWING.
- ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS ARE IN METRES UNLESS NOTED OTHERWISE.
- DEFECTS TO SUBSTRUCTURE FACES OF PROPOSED INFILL SPAN ARE SHOWN. IT HAS BEEN AGREED THAT THESE DO NOT NEED TO BE ACTIONED BUT THEY HAVE BEEN LEFT IN PLACE AND PRIORITY STATED AS N/A IN CASE OF A CHANGE OF THE DECISION.
- ALL REPAIR METHODOLOGIES AND MATERIAL PROPERTIES ARE TO BE IN ACCORDANCE WITH THE NETWORK RAIL TECHNICAL USER MANUAL FOR STANDARD BRICKWORK AND MASONRY REPAIRS (NR/CIV/SD/TUM/101), DRGS NR/CIV/SD/101 TO 121 AND THE SPECIFICATIONS INCLUDED THEREON.
- DETAILED AS BUILT PHOTOGRAPHS IN THE FORM OF BEFORE AND AFTER PHOTOGRAPHS OF EACH REPAIR ARE TO BE PROVIDED.
- ALL VEGETATION ON AND WITHIN 3m OF THE STRUCTURE IS TO BE REMOVED. THE TIMING AND SPECIFICATION FOR THIS WORK SHOULD ENSURE THAT ALL ROOTS ARE REMOVED, AND RE-GROWTH PREVENTED BY USE OF A SUITABLE HERBICIDE.
- DEFECTS SHOWN FOR AREA OF ABUTMENT BELOW THE PROPOSED DEMOLITION LINE ONLY

LEGEND:

DL - DEMOLITION LEVEL

Rev	Date	Description	Drawn	Check	Approv
A01	22/02/23	FORM A FOR APPROVAL	GF	JC	DB



PROJECT:

LNW FRAMEWORK CP6
OP No. 164698



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80 Fenchurch Street
London E3CM 4BY

Coordinating office:
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Warrington WA3 6GA
Tel: 44 (0)1925 800700

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TITLE:

PPA2/1 RONDIN ROAD
UNDERBRIDGE
DEFECTS AND REPAIR WORKS
SHEET 1 OF 2

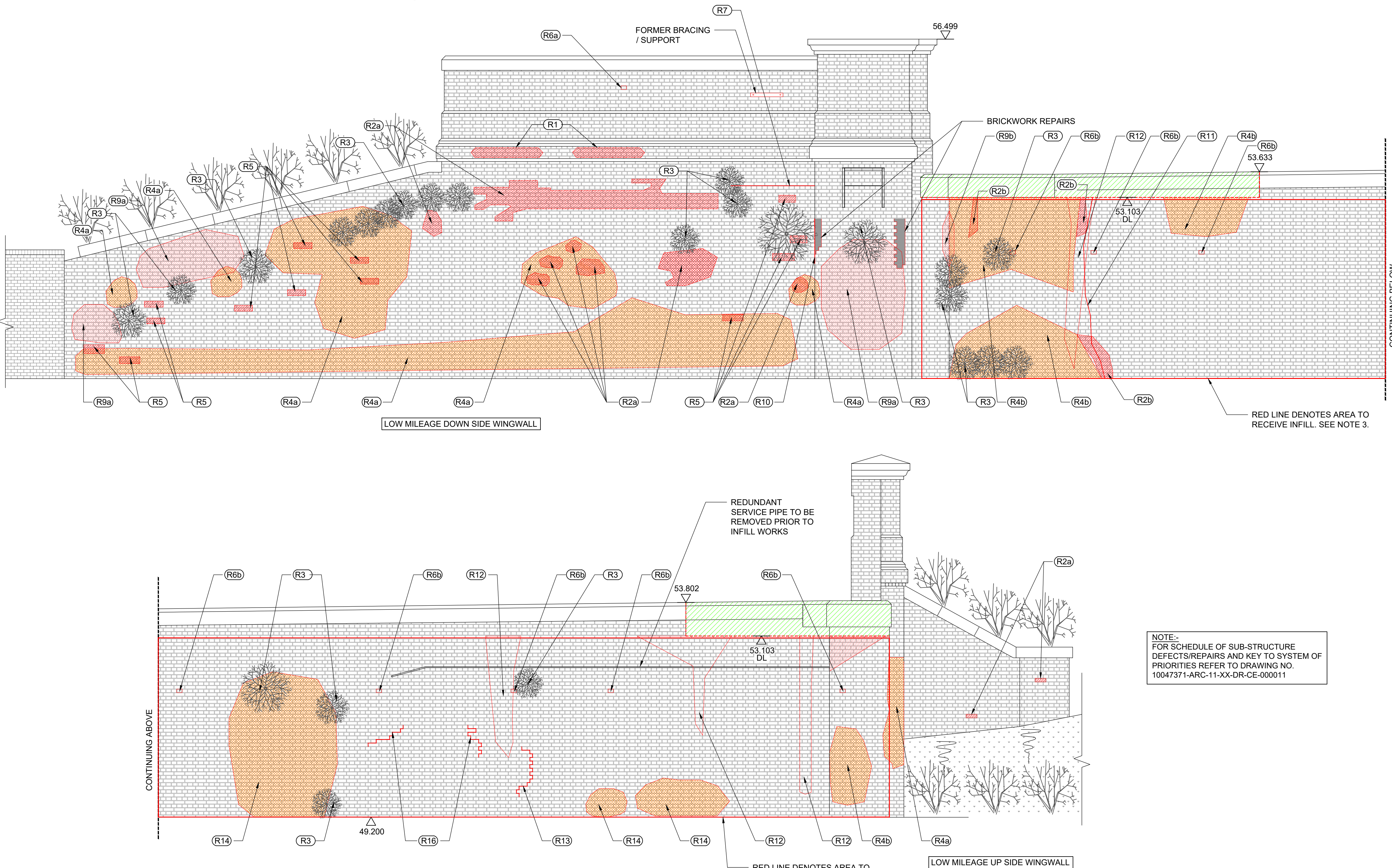
Designed	A.LITTLEWOOD	Signed	[Signature]	Date	22-02-2023
Drawn	G.FERNANDES	Signed	[Signature]	Date	22-02-2023
Checked	J.CUNNIFFE	Signed	[Signature]	Date	22-02-2023
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Approved	D.BEEVER	Signed	[Signature]	Date	22-02-2023
Scale:	As shown	Datum:	AOD		
Original Size:	A1	Grid:	TPEN16 SNAKEGRID		
ELR:	PPA2	Mileage:	0m 0430yds		
Suitability Code:	S3	Project Number:	10047371		

Suitability Description:

FORM A FOR APPROVAL

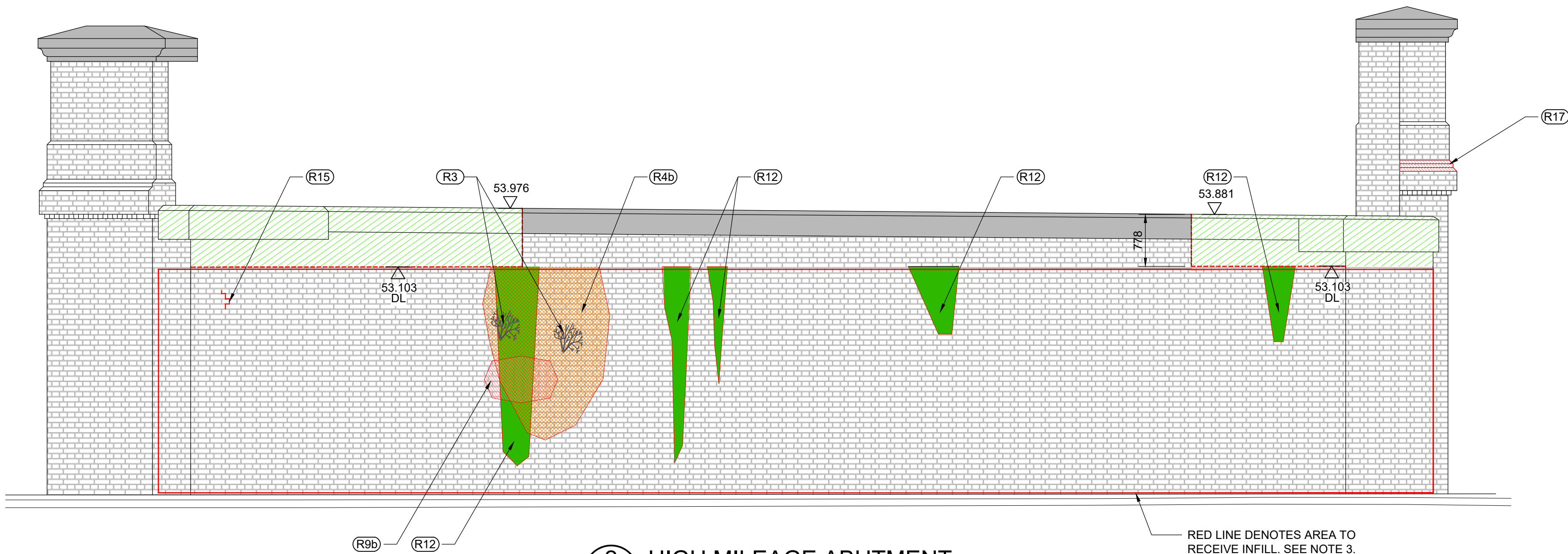
Drawing Number:
10047371-ARC-11-XX-DR-CE-000010

Revision:
A01



1 LOW MILEAGE ABUTMENT

SCALE: 1:50
(SUPERSTRUCTURE AND PALISADE FENCE OMITTED FOR CLARITY)

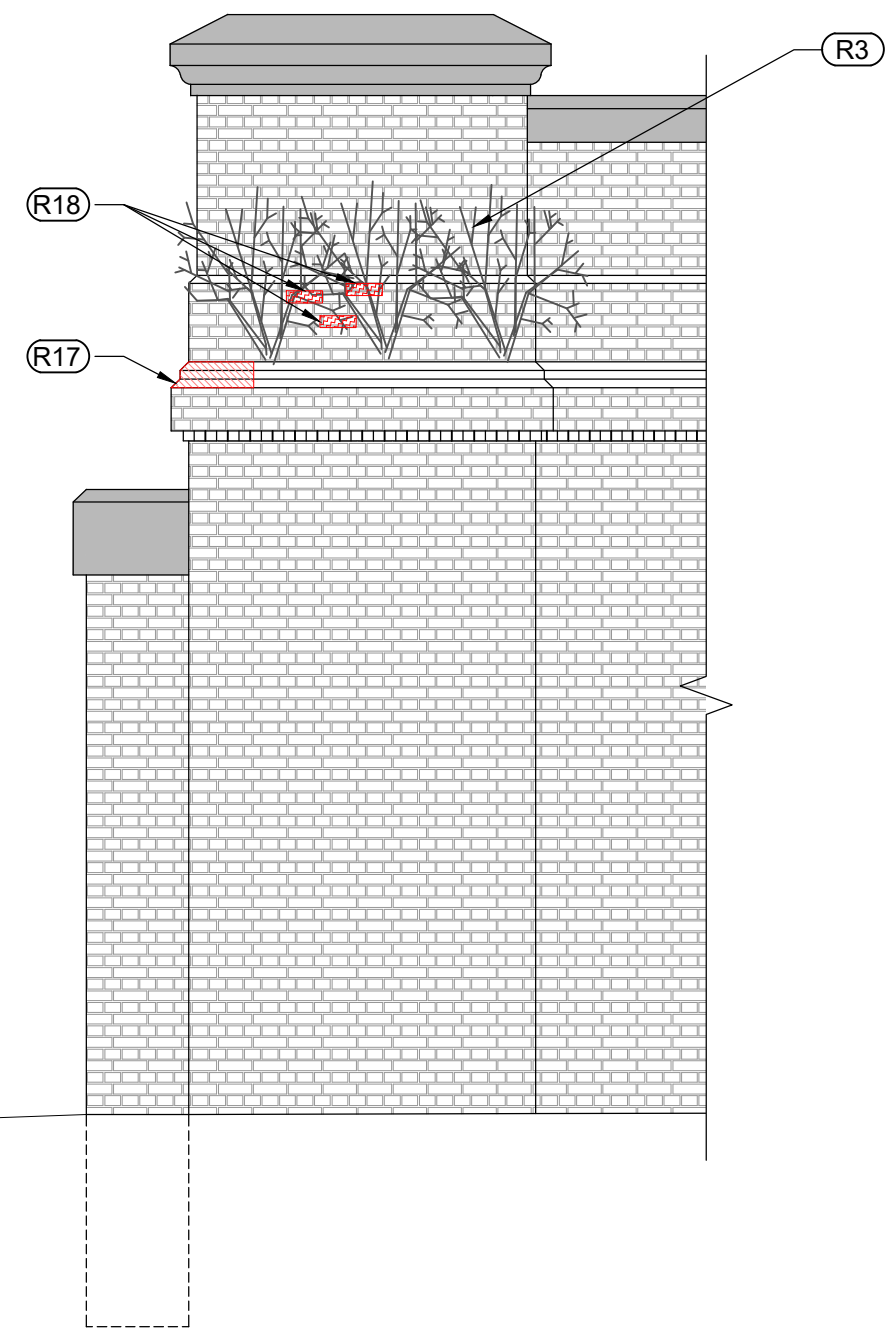


LEGEND:	
	OPEN JOINTS
	HOLLOW SOUND
	WATER STAINING / ALGAE
	VEGETATION
	TO BE REMOVED
	SPALLING
	VOID
	FRACTURES
	DEMOLITION LINE

2 HIGH MILEAGE ABUTMENT
SCALE: 1:50
(SUPERSTRUCTURE AND PALISADE FENCE OMITTED FOR CLARITY)

RED LINE DENOTES AREA TO
RECEIVE INFILL. SEE NOTE 3.

SUBSTRUCTURAE DEFECTS/REPAIRS					
REF	DEFECT DESCRIPTION	LOCATION	QUANTITY (APPROX.)	PRIORITY RATING	REMEDIAL ACTION
GENERAL	VEGETATION GROWTH WITHIN 3m OF STRUCTURE			P3	ALL VEGETATION AND TREES ON OR WITHIN 3m OF THE STRUCTURE TO BE REMOVED. STUMPS TO BE TREATED WITH NON-TOXIC HERBICIDE TREATMENT TO PREVENT REGROWTH.
GENERAL	ALL BRICKWORK IS WEATHERED 2-5mm DEEP THROUGHOUT			-	-
GENERAL	WIDESPREAD SEEPAGE NOTED TO THE ABUTMENT OVER APPROX. 25m²			-	-
GENERAL	WIDESPREAD GRAFFITI NOTED TO THE ABUTMENT OVER APPROX. 15m²			P3	WASHOUT AND CLEAN
R1	SPALLING BRICKWORK TO STRING COURSE 10-20mm DEEP	LOW MILEAGE DOWNSIDE WINGWALL	1m²	P3	SPALLED AREAS TO BE REPLACED WITH NEW BRICKS TO MATCH EXISTING AS PER NR/CIV/SD/111
R2a	SPALLING BRICKWORK AND OPEN JOINTS TYPICAL DEPTH 5-25mm WITH ISOLATED AREAS UP TO 40mm DEEP	LOW MILEAGE DOWNSIDE / UPSIDE WINGWALL	5m²	P3	SPALLED AREAS TO BE REPLACED WITH NEW BRICKS TO MATCH EXISTING AS PER NR/CIV/SD/111. SURROUNDING BRICKWORK TO BE RAKED OUT TO MIN. 25mm AND LOOSE MORTAR TO MAX. 5mm DEPTH/GOOD CEMENT AND REPOINTED TO NR/CIV/SD/TUM/101 AS REQUIRED.
R2b		LOW / HIGH MILEAGE ABUTMENT		N/A	SEE NOTE 03
R3	VEGETATION GROWTH THROUGH MORTAR JOINTS	SEE ELEVATIONS	-	P3	SURFACES WITH MOSS AND ALGAE TO BE WASHED OUT, CLEANED AND REINSPECTED FOR FURTHER DEFECTS. TREES ON OR WITHIN 3m OF THE STRUCTURE TO BE REMOVED. STUMPS TO BE TREATED WITH NON-TOXIC HERBICIDE TREATMENT TO PREVENT REGROWTH
R4a	OPEN JOINTS TYPICAL DEPTH 10-20mm UP TO MAX. 40mm	LOW MILEAGE DOWNSIDE/UPSIDE WINGWALL	9m²	P3	MORTAR TO BE RAKED OUT TO MIN.25mm AND LOOSE MORTAR TO MAX.75mm DEPTH/GOOD CEMENT AND REPOINTED TO NR/CIV/SD/TUM/101 AS REQUIRED
R4b		LOW / HIGH MILEAGE ABUTMENT		N/A	SEE NOTE 03
R5	SPALLING IN ISOLATED LOCATION	LOW MILEAGE DOWNSIDE WINGWALL	16 NO.	P3	SPALLED AREAS TO BE REPLACED WITH NEW BRICKS TO MATCH EXISTING AS PER NR/CIV/SD/111
R6a	ISOLATED MISSING BRICK	LOW MILEAGE DOWNSIDE WINGWALL	10 NO.	P3	BRICKS TO BE REPLENISHED
R6b		LOW / HIGH MILEAGE ABUTMENT		N/A	SEE NOTE 03
R7	BED JOINT FRACTURE, 1.8m LONG, OPEN 1mm	LOW MILEAGE DOWNSIDE WINGWALL	1.8m	P2	FRACTURE TO BE STITCHED TO NR/CIV/SD/109 WITH A MINIMUM OF 1NO. BAR EVERY 250-500mm. SURROUNDING BRICKWORK TO BE RAKED OUT TO MIN. 25mm GOOD CEMENT AND LOOSE MORTAR TO MAX. 75mm DEPTH /GOOD CEMENT AND REPOINTED TO NR/CIV/SD/TUM/101 AS REQUIRED
R8	VERTICAL STEPPED FRACTURE, 1.2m LONG OPEN 1mm	LOW MILEAGE DOWNSIDE WINGWALL	1.2m	P2	
R9a	HOLLOW SOUNDING BRICKWORK	LOW MILEAGE DOWNSIDE / UPSIDE WINGWALL	8m².	P3	MORTAR TO BE RAKED OUT TO MIN.25m AND LOOSE MORTAR TO MAX. 75mm DEPTH/GOOD CEMENT AND REPOINTED TO NR/CIV/SD/TUM/101 AS REQUIRED
R9b		LOW / HIGH MILEAGE ABUTMENT		N/A	SEE NOTE 03
R10	VERTICAL STEPPED FRACTURE ON PILASTER RETURN OPEN 2mm x 4m LENGTH WITH + 10mm DISPLACEMENT TO THE TOP OF THE FRACTURE	LOW MILEAGE DOWNSIDE PILASTER RETURN	4m	P2	FRACTURE TO BE STITCHED TO NR/CIV/SD/109 WITH A MINIMUM OF 1NO. BAR EVERY 250-500mm. SURROUNDING BRICKWORK TO BE RAKED OUT TO MIN. 25mm GOOD CEMENT AND LOOSE MORTAR TO MAX. 75mm DEPTH /GOOD CEMENT AND REPOINTED TO NR/CIV/SD/TUM/101 AS REQUIRED
R11	VERTICAL FRACTURE UP TO 20mm OPENING	LOW MILEAGE ABUTMENT	3.5m	N/A	SEE NOTE 03
R12	WATER STAINING / ALGAE	LOW / HIGH MILEAGE ABUTMENT	5m²	N/A	SEE NOTE 03
R13	FRACTURE 2-5mm, 1050mm	LOW MILEAGE ABUTMENT	1.050m	N/A	SEE NOTE 03
R14	OPEN JOINTS TYPICAL DEPTH 2-5mm	LOW / HIGH MILEAGE ABUTMENT	9.5m²	N/A	SEE NOTE 03
R15	STEPPED FRACTURE, 400mm	HIGH MILEAGE ABUTMENT	0.4m	N/A	SEE NOTE 03
R16	HAIRLINE FRACTURE OPEN UP TO MAX. 5mm	LOW MILEAGE ABUTMENT	2m	N/A	SEE NOTE 03
R17	MISSING BRICKWORK	HIGH MILEAGE ABUTMENT	1.4m	P2	FRACTURE TO BE STITCHED TO NR/CIV/SD/109 WITH A MINIMUM OF 1NO. BAR EVERY 250-500mm. SURROUNDING BRICKWORK TO BE RAKED OUT TO MIN. 25mm GOOD CEMENT AND LOOSE MORTAR TO MAX. 75mm DEPTH /GOOD CEMENT AND REPOINTED TO NR/CIV/SD/TUM/101 AS REQUIRED
R18	SPALLED BRICKWORK	HIGH MILEAGE ABUTMENT	3 NO.	P2	FRACTURE TO BE STITCHED TO NR/CIV/SD/109 WITH A MINIMUM OF 1NO. BAR EVERY 250-500mm. SURROUNDING BRICKWORK TO BE RAKED OUT TO MIN. 25mm GOOD CEMENT AND LOOSE MORTAR TO MAX. 75mm DEPTH /GOOD CEMENT AND REPOINTED TO NR/CIV/SD/TUM/101 AS REQUIRED



3 HIGH MILEAGE PILASTER
SCALE: 1:50

KEY TO SYSTEM OF PRIORITIES		
P1	DEFECT CONSIDERED TO PRESENT A SIGNIFICANT EXISTING RISK TO PUBLIC OR PERSONNEL SAFETY AND/OR STRUCTURAL INTEGRITY OR STABILITY.	REQUIRED
P2	DEFECT PRESENTS AN EXISTING RISK AND THE POTENTIAL FOR DEVELOPMENT OF A SIGNIFICANT RISK TO PUBLIC OR PERSONNEL AND/OR STRUCTURAL INTEGRITY OR STABILITY BEFORE PROGRAMMED MAINTENANCE PERIOD.	REQUIRED
P3	DEFECT IS CONSIDERED TO PRESENT A MINOR SAFETY AND IT IS NOT ENVISAGED THAT THE DETERIORATION WITHIN STANDARD MAINTENANCE OR ASSESSMENT PERIODS SHALL CAUSE A SIGNIFICANT SAFETY RISK TO DEVELOP.	NOT REQUIRED UNLESS INSTRUCTED BY NR
N/A	NO REMEDIAL ACTION PROPOSED. DEFECT IS CONSIDERED TO BE COSMETIC ONLY AND IS NOTED FOR MONITORING PURPOSES. SEE NOTE 5.	NOT REQUIRED

- NOTES:**
- DO NOT SCALE FROM DRAWING.
 - ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS ARE IN METRES UNLESS NOTED OTHERWISE.
 - DEFECTS TO SUBSTRUCTURE FACES OF PROPOSED INFILL SPAN ARE SHOWN. IT HAS BEEN AGREED THAT THESE DO NOT NEED TO BE ACTIONED BUT THEY HAVE BEEN LEFT IN PLACE AND PRIORITY STATED AS N/A IN CASE OF A CHANGE OF THE DECISION.
 - ALL REPAIR METHODOLOGIES AND MATERIAL PROPERTIES ARE TO BE IN ACCORDANCE WITH THE NETWORK RAIL TECHNICAL USER MANUAL FOR STANDARD BRICKWORK AND MASONRY REPAIRS (NR/CIV/SD/TUM/101), DRGS NR/CIV/SD/101 TO 121 AND THE SPECIFICATIONS INCLUDED THEREON.
 - DETAILED AS BUILT PHOTOGRAPHS IN THE FORM OF BEFORE AND AFTER PHOTOGRAPHS OF EACH REPAIR ARE TO BE PROVIDED.
 - ALL VEGETATION ON AND WITHIN 3M OF THE STRUCTURE IS TO BE REMOVED. THE TIMING AND SPECIFICATION FOR THIS WORK SHOULD ENSURE THAT ALL ROOTS ARE REMOVED, AND RE-GROWTH PREVENTED BY USE OF A SUITABLE HERBICIDE.
 - DEFECTS SHOWN FOR AREA OF ABUTMENT BELOW THE PROPOSED DEMOLITION LINE ONLY

LEGEND:	
DL	DEMOLITION LEVEL

A01	22/02/23	FORM A FOR APPROVAL	GF	JC	DB
Rev	Date	Description	Drawn	Check	Approv



PROJECT:
LNW FRAMEWORK CP6
OP No. 164698



Registered office:
Arcadis Consulting UK Ltd
80 Fenchurch Street
London E3CM 4BY

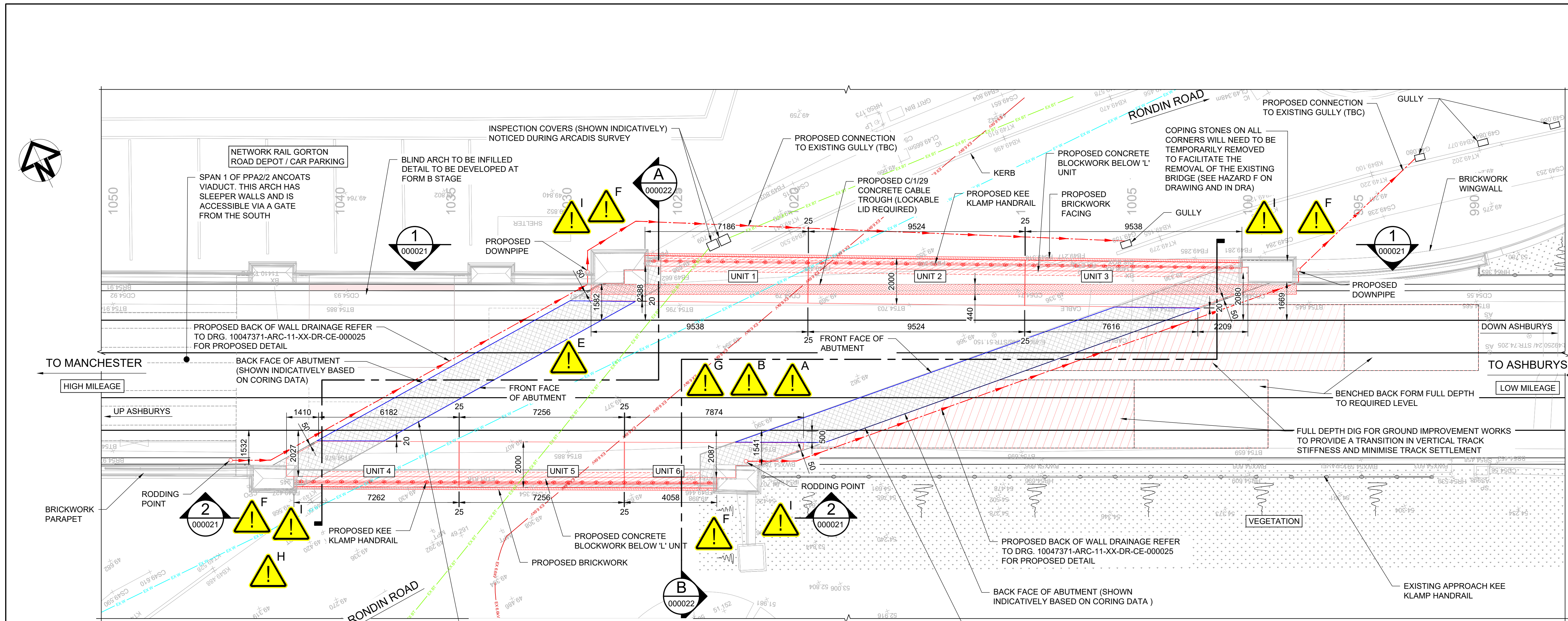
Coordinating office:
5th Floor, 401 Faraday Street,
Birchwood Park,
Warrington WA3 6GA
Tel: 44 (0)1925 800700

www.arcadis.com

TITLE:
PPA2/1 RONDIN ROAD
UNDERBRIDGE
DEFECTS AND REPAIR WORKS
SHEET 2 OF 2

Designed	A.LITTLEWOOD	Signed		Date	22-02-2023
Drawn	G.FERNANDES	Signed		Date	22-02-2023
Checked	J.CUNNIFFE	Signed		Date	22-02-2023
Reviewed	D.BEEVER	Signed		Date	22-02-2023
Approved	D.BEEVER	Signed		Date	22-02-2023
Scale:	As shown	Datum:	AOD		
Original Size:	A1	Grid:	TPEN16 SNAKEGRID		
ELR:	PPA2	Mileage:	0m 0430yds		
Suitability Code:	S3	Project Number:	10047371		

Suitability Description:	
FORM A FOR APPROVAL	
Drawing Number: 10047371-ARC-11-XX-DR-CE-000011	Revision: A01



PROPOSED PLAN
SCALE: 1:100

PROPOSED UNIT WEIGHT		
LOCATION	PRECAST UNIT REF.	TOTAL WEIGHT (t)
NORTH WEST	UNIT 1	32.0
NORTH CENTRAL	UNIT 2	38.5
NORTH EAST	UNIT 3	38.1
SOUTH WEST	UNIT 4	30.2
SOUTH CENTRAL	UNIT 5	30.2
SOUTH EAST	UNIT 6	21.4

KEY TO BURIED SERVICES		
— EX 6.6V —	— EX 6.6V —	6NO. ELECTRICITY NORTH WEST 6.6KV ELECTRIC CABLES (0.7m BGL)
— EX 1.2m —	— EX 1.2m —	UNITED UTILITIES 225 DIA. WATER MAIN (1.2m BGL)
— EX 0.5m —	— EX 0.5m —	2NO. OPENREACH BT CABLE DUCTS (0.5m BGL W/ CONC SURROUND)

LEGEND	
	C/1/29 CONCRETE CABLE TROUGH. SEE NOTE 8
	EXISTING ABUTMENT (SHOWN INDICATIVELY BASED ON CORING DATA)
	PROPOSED CONCRETE BLOCKWORK BELOW 'L' UNIT
	PROPOSED BRICKWORK
	TYPE 1 INFILL BETWEEN UNITS

HAZARD SUMMARY TABLE	
SIGNIFICANT DESIGNER'S IDENTIFIED HAZARDS	LIFE SAVING RULES



SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

THE FOLLOWING NOTES HIGHLIGHT SIGNIFICANT RESIDUAL HAZARD IDENTIFIED BY THE DESIGNER. TYPICAL HAZARDS THAT SHOULD BE IDENTIFIED BY A COMPETENT CONTRACTOR ARE NOT INCLUDED. THE CONTRACTOR SHALL CARRY OUT THE WORKS USING AN APPROVED SAFE SYSTEM OF WORK

SHOULD ANY ADDITIONAL HAZARDS BE IDENTIFIED DURING THE COURSE OF THE WORKS, THE CONTRACTOR SHALL NOTIFY ALL RELEVANT MEMBERS OF THE PROJECT TEAM

 DRUGS / ALCOHOL

 TRAINING & COMPETENCY

 NO MOBILE PHONES

 CORRECT EQUIPMENT

 OBEY DRIVING RULES

 EARTHING

 EXCLUSION ZONE

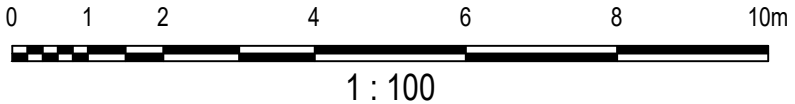
 PLANS AND PERMITS

 SAFETY HARNESS AT HEIGHT

 ISOLATION

A	WORKING ADJACENT TO BURIED SERVICES AND S&T INFRASTRUCTURE	   
B	RISK OF COLLAPSE TO ABUTMENTS, IN PARTICULAR DURING EXCAVATION WORKS FOR GROUND IMPROVEMENT. EXCAVATIONS TO BE STAGED. CONTRACTOR TO ENSURE ABUTMENTS ARE NOT UNDERMINED	    
D	SIGNALLING EQUIPMENT ATTACHED TO THE INSIDE FACE OF THE NORTHERN MAIN GIRDER	    
E	WORKING IN AN AREA WITH LIMITED CLEARANCE	 
F	BEDSTONES ARE EXPECTED TO BE BUILT INTO THE ABUTMENT. TO BE REMOVED WITHOUT DAMAGING SURROUNDING AREAS. PILASTERS WILL BECOME TALL SLENDER ELEMENTS ONCE DECK IS REMOVED	  
G	RISK OF CONTAMINATED GROUND AS AREA BENEATH USED TO BE A RAILWAY	  
H	WORKING IN AREA WITH RESTRICTED ACCESS UNDER STRUCTURE / POTENTIAL FOR ANTI-SOCIAL BEHAVIOUR	  
I	TIGHT WORKING AREAS BETWEEN CONCRETE UNITS AND AROUND PILASTERS	  

• FOR MORE DETAILED INFORMATION PLEASE REFER TO THE DESIGNERS H&S RISK ASSESSMENT REF.: 10047371-ARC-11-XX-RA-CE-000001.



- NOTES:**
- DO NOT SCALE FROM DRAWING.
 - ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS ARE IN METRES UNLESS NOTED OTHERWISE.
 - PROPOSED GENERAL ARRANGEMENT PRODUCED BASED ON PBH TOPOGRAPHICAL SURVEY COMPLETED IN OCTOBER AND DECEMBER 2020 (PBH-1702-001-DWG-SU-003 A01) AND EXISTING NR ARCHIVE INFORMATION. TOPOGRAPHICAL SURVEY COORDINATE SYSTEM IS TPN16 SNAKEGRID.
 - FOR DETAILS ON PERMANENT WAY DESIGN REFER TO PERMANENT WAY FORM A SUBMISSION.
 - FOAMED CONCRETE DENSITY ASSUMED TO BE 1200kg/m3. THIS IS SUBJECT TO REVIEW AT DETAILED DESIGN.
 - PALISADE FENCE BLOCKING ACCESS TO UNDERSIDE OF STRUCTURE IS TO BE REMOVED.
 - REQUIREMENTS FOR TRACK LEVEL BURIED STRUCTURE SIGNAGE IS TO BE CONFIRMED AT DETAILED DESIGN.
 - REQUIREMENTS FOR CESS TROUGHING ROUTES TO BE CONFIRMED AT DETAILED DESIGN.

Rev	Date	Description	Drawn	Check	Approv
A01	22-02-23	FORM A FOR APPROVAL	GF	JC	DB



PROJECT:
LNW FRAMEWORK CP6
OP No. 164698

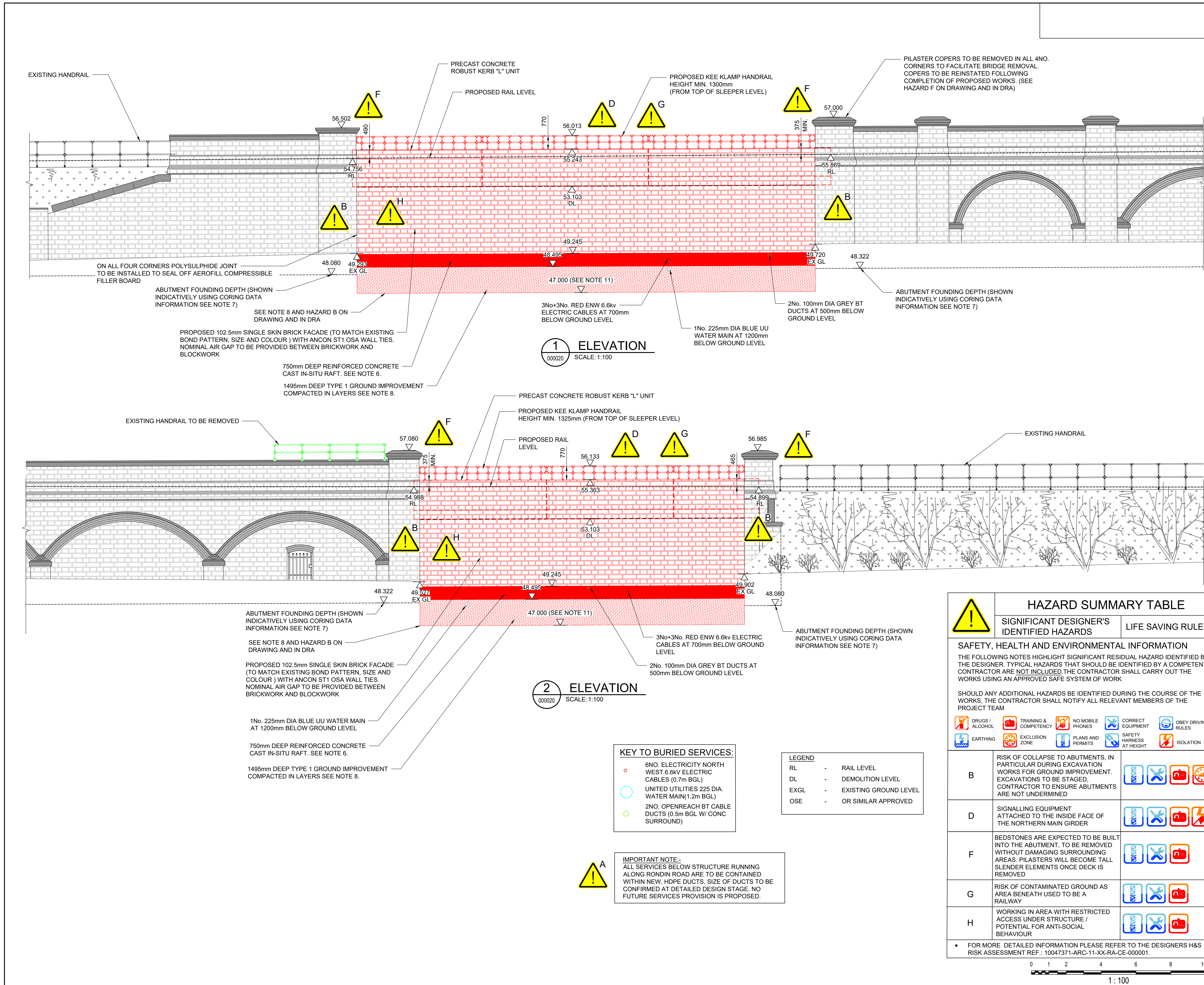
ARCADIS
Registered office: Arcadis Consulting UK Ltd, 80 Fenchurch Street, London E3CM 4BY
Coordinating office: 5th Floor, 401 Faraday Street, Birchwood Park, Warrington WA3 6GA
Tel: 44 (0)1925 800700
www.arcadis.com

TITLE:
PPA2/1 RONDIN ROAD UNDERBRIDGE
PROPOSED GENERAL ARRANGEMENT PLAN

Designed	A.LITTLEWOOD	Sign		Date	22-02-2023
Drawn	G.FERNANDES	Sign		Date	22-02-2023
Checked	J.CUNNIFFE	Sign		Date	22-02-2023
Reviewed	D.BEEVER	Sign		Date	22-02-2023
Approved	D.BEEVER	Sign		Date	22-02-2023
Scale:	As shown	Datum:	AOD		
Original Size:	A1	Grid:	TPN16 SNAKEGRID		
ELR:	PPA2	Mileage:	0m 0430yds		
Suitability Code:	S3	Project Number:	10047371		

Suitability Description:
FORM A FOR APPROVAL

Drawing Number: 10047371-ARC-11-XX-DR-CE-000020	Revision: A01
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- NOTES:**
- DO NOT SCALE FROM DRAWING.
 - ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS ARE IN METRES UNLESS NOTED OTHERWISE
 - PROPOSED GENERAL ARRANGEMENT PRODUCED BASED ON PBH TOPOGRAPHICAL SURVEY COMPLETED IN OCTOBER AND DECEMBER 2020 (PBH-1702-001-DWG-SU-003 A01) AND EXISTING NR ARCHIVE INFORMATION. TOPOGRAPHICAL SURVEY COORDINATE SYSTEM IS TPEN16 SNAKEGRID.
 - FOR DETAILS ON PERMANENT WAY DESIGN REFER TO 10047371-ARC-11-XX-RP-RT-000001 PERMANENT WAY FORM A SUBMISSION.
 - FOAMED CONCRETE DENSITY ASSUMED TO BE 1200kg/m3. THIS IS SUBJECT TO REVIEW AT DETAILED DESIGN.
 - RAFT FOUNDATION CONCRETE TO CONFORM TO BS EN 206:2013, BS 8500-1:2005+A2:2019, AND BS 8500-2:2005+A2:2019
CONCRETE STRENGTH CLASS : C32/40
MAXIMUM W/C RATIO : 0.45
MINIMUM CEMENT CONCRETE CONTENT : 360kg/m³
 - ABUTMENT THICKNESS AND FOUNDING LEVELS ARE TAKEN FROM BGA CORING REPORT (REPORT NO. 4096/1) DATED SEPTEMBER 2020. REFER TO DRAWING 10047371-ARC-11-XX-DR-CE-000007 FOR LOCATIONS AND DEPTHS OF CORES.
 - TYPE 1 FILL TO BE INSTALLED IN 1500mm STRIPS RUNNING ABUTMENT TO ABUTMENT (PARALLEL TO TRACKS). EACH STRIP IS TO BE FULLY BACKFILLED PRIOR TO PROGRESSING TO THE NEXT LOCATION.
 - MADE GROUND SHOULD BE EXCAVATED UNTIL GLACIAL TILL WITH A MINIMUM Cu OF 50kPa IS REACHED. THIS SHOULD BE CONFIRMED ON SITE USING HAND SHEAR VANE TESTING BY A COMPETENT PERSON. IF FOUND TO BE LOWER THAN EXPECTED 47m AOD DESIGNER IS TO BE NOTIFIED.
 - PROPOSED FOUNDATION DESIGN IS BASED ON THE DRAFT BOREHOLE LOGS. FINAL DESIGN WILL INCLUDE REVIEW OF FACTUAL GROUND INVESTIGATION REPORT.
 - HALFEN ML-85 BRICK TIE CHANNEL ANCHORS OR SIMILAR APPROVED CAST INTO PRECAST "L" UNITS

Rev	Date	Description	Drawn	Check	Approv
A01	22/02/23	FORM A FOR APPROVAL	GF	JC	DB



PROJECT:
LNW FRAMEWORK CP6
OP No. 164698

ARCADIS
Registered office:
Arcadis Consulting UK Ltd
80 Fenchurch Street
London E3CM 4BY
Coordinating office:
5th Floor, 401 Faraday Street,
Birchwood Park,
Warrington WA3 6GA
Tel: 44 (0)1925 800700
www.arcadis.com

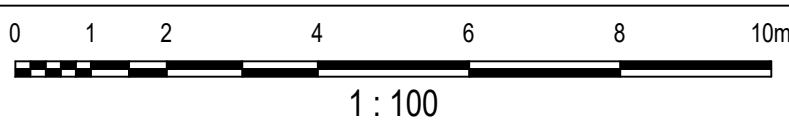
TITLE:
PPA2/1 RONDIN ROAD
UNDERBRIDGE
PROPOSED
ELEVATIONS

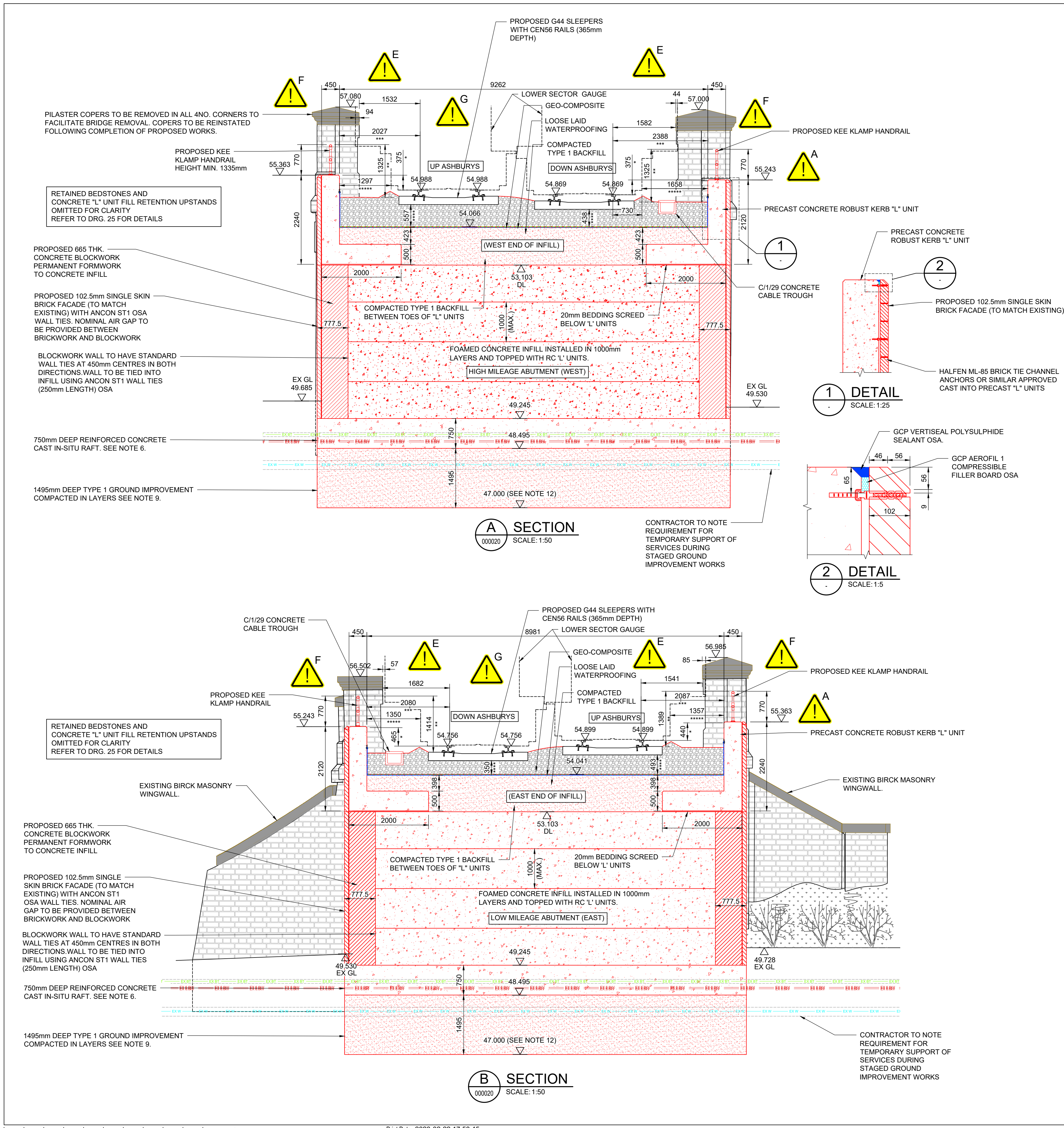
Designed	A.LITTLEWOOD	Signed	[Signature]	Date	22-02-2023
Drawn	G.FERNANDES	Signed	[Signature]	Date	22-02-2023
Checked	J.CUNNIFFE	Signed	[Signature]	Date	22-02-2023
Reviewed	D.BEEVER	Signed	[Signature]	Date	22-02-2023
Approved	D.BEEVER	Signed	[Signature]	Date	22-02-2023
Scale:	As shown	Datum:	AOD		
Original Size:	A1	Grid:	TPEN16 SNAKEGRID		
ELR:	PPA2	Mileage:	0m 0430yds		
Suitability Code:	S3	Project Number:	10047371		

FORM A FOR APPROVAL

Drawing Number:	10047371-ARC-11-XX-DR-CE-000021	Revision:	A01
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HAZARD SUMMARY TABLE		
	SIGNIFICANT DESIGNER'S IDENTIFIED HAZARDS	LIFE SAVING RULES
	SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
THE FOLLOWING NOTES HIGHLIGHT SIGNIFICANT RESIDUAL HAZARD IDENTIFIED BY THE DESIGNER. TYPICAL HAZARDS THAT SHOULD BE IDENTIFIED BY A COMPETENT CONTRACTOR ARE NOT INCLUDED. THE CONTRACTOR SHALL CARRY OUT THE WORKS USING AN APPROVED SAFE SYSTEM OF WORK		
SHOULD ANY ADDITIONAL HAZARDS BE IDENTIFIED DURING THE COURSE OF THE WORKS, THE CONTRACTOR SHALL NOTIFY ALL RELEVANT MEMBERS OF THE PROJECT TEAM		
 DRUGS / ALCOHOL  TRAINING & COMPETENCY  NO MOBILE PHONES  CORRECT EQUIPMENT  OBEY DRIVING RULES  EARTHING  EXCLUSION ZONE  PLANS AND PERMITS  SAFETY HARNESS AT HEIGHT  ISOLATION		
B	RISK OF COLLAPSE TO ABUTMENTS, IN PARTICULAR DURING EXCAVATION WORKS FOR GROUND IMPROVEMENT. EXCAVATIONS TO BE STAGED, CONTRACTOR TO ENSURE ABUTMENTS ARE NOT UNDERMINED	
D	SIGNALLING EQUIPMENT ATTACHED TO THE INSIDE FACE OF THE NORTHERN MAIN GIRDER	
F	BEDSTONES ARE EXPECTED TO BE BUILT INTO THE ABUTMENT, TO BE REMOVED WITHOUT DAMAGING SURROUNDING AREAS. PILASTERS WILL BECOME TALL SLENDER ELEMENTS ONCE DECK IS REMOVED	
G	RISK OF CONTAMINATED GROUND AS AREA BENEATH USED TO BE A RAILWAY	
H	WORKING IN AREA WITH RESTRICTED ACCESS UNDER STRUCTURE / POTENTIAL FOR ANTI-SOCIAL BEHAVIOUR	
• FOR MORE DETAILED INFORMATION PLEASE REFER TO THE DESIGNERS H&S RISK ASSESSMENT REF.: 10047371-ARC-11-XX-RA-CE-000001.		





- * UP ROBUST KERB HEIGHT VARIES 375 TO 465 (MEASURED FROM RUNNING EDGE).
DOWN ROBUST KERB HEIGHT VARIES 375 TO 490 (MEASURED FROM RUNNING EDGE).
- ** UP HANDRAIL HEIGHT ACROSS STRUCTURE VARIES 1325 TO 1389 (MEASURED FROM TOP OF SLEEPER).
DOWN HANDRAIL HEIGHT ACROSS STRUCTURE VARIES 1325 TO 1414 (MEASURED FROM TOP OF SLEEPER).
- *** OFFSET FROM RUNNING EDGE TO ROBUST KERB ON UP SIDE VARIES 2027 TO 2087 (ACROSS INFILL).
OFFSET FROM RUNNING EDGE TO ROBUST KERB ON DOWN SIDE VARIES 2080 TO 2388 (ACROSS INFILL).
- **** BALLAST DEPTH UNDER UP SLEEPER TO TOP OF GEO-COMPOSITE VARIES 493 TO 557.
BALLAST DEPTH UNDER DOWN SLEEPER TO TOP OF GEO-COMPOSITE VARIES 350 TO 438.
- ***** UP ROBUST KERB HORIZONTAL CLEARANCE FROM LOWER SECTOR STRUCTURAL GAUGE VARIES 1297 TO 1357.
DOWN ROBUST KERB HORIZONTAL CLEARANCE FROM LOWER SECTOR STRUCTURAL GAUGE VARIES 1350 TO 1658.

IMPORTANT NOTE:-
ALL SERVICES BELOW STRUCTURE RUNNING ALONG RONDIN ROAD ARE TO BE CONTAINED WITHIN NEW, HDPE DUCTS. SIZE OF DUCTS TO BE CONFIRMED AT DETAILED DESIGN STAGE. NO FUTURE SERVICES PROVISION IS PROPOSED.

HAZARD SUMMARY TABLE

SIGNIFICANT DESIGNER'S IDENTIFIED HAZARDS		LIFE SAVING RULES
SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION		
THE FOLLOWING NOTES HIGHLIGHT SIGNIFICANT RESIDUAL HAZARD IDENTIFIED BY THE DESIGNER. TYPICAL HAZARDS THAT SHOULD BE IDENTIFIED BY A COMPETENT CONTRACTOR ARE NOT INCLUDED. THE CONTRACTOR SHALL CARRY OUT THE WORKS USING AN APPROVED SAFE SYSTEM OF WORK		
SHOULD ANY ADDITIONAL HAZARDS BE IDENTIFIED DURING THE COURSE OF THE WORKS, THE CONTRACTOR SHALL NOTIFY ALL RELEVANT MEMBERS OF THE PROJECT TEAM		
DRUGS / ALCOHOL EARTHING TRAINING & COMPETENCY EXCLUSION ZONE NO MOBILE PHONES PLANS AND PERMITS CORRECT EQUIPMENT SAFETY HARNESSES AT HEIGHT OBEY DRIVING RULES ISOLATION		
A	WORKING ADJACENT TO BURIED SERVICES AND S&T INFRASTRUCTURE	
E	WORKING IN AN AREA WITH LIMITED CLEARANCE	
F	BEDSTONES ARE EXPECTED TO BE BUILT INTO THE ABUTMENT, TO BE REMOVED WITHOUT DAMAGING SURROUNDING AREAS. PILASTERS WILL BECOME TALL SLENDER ELEMENTS ONCE DECK IS REMOVED	
G	RISK OF CONTAMINATED GROUND AS AREA BENEATH USED TO BE A RAILWAY	
FOR MORE DETAILED INFORMATION PLEASE REFER TO THE DESIGNERS H&S RISK ASSESSMENT REF.: 10047371-ARC-11-XX-RA-CE-000001.		

NOTES:

- DO NOT SCALE FROM DRAWING.
- ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS ARE IN METRES UNLESS NOTED OTHERWISE.
- EXISTING GENERAL ARRANGEMENT PRODUCED BASED ON PBH TOPOGRAPHICAL SURVEY COMPLETED IN OCTOBER AND DECEMBER 2020 (PBH-1702-001-DWG-SU-003 A01) AND EXISTING NR ARCHIVE INFORMATION. TOPOGRAPHICAL SURVEY COORDINATE SYSTEM IS TPEN16 SNAKEGRID.
- FOR DETAILS ON PERMANENT WAY DESIGN REFER TO 10047371-ARC-11-XX-RP-RT-000001 PERMANENT WAY FORM A SUBMISSION.
- FOAMED CONCRETE DENSITY ASSUMED TO BE 1200kg/m³. THIS IS SUBJECT TO REVIEW AT DETAILED DESIGN.
- RAFT FOUNDATION CONCRETE TO CONFORM TO BS EN 206:2013, BS 8500-1:2005+A2:2019, AND BS 8500-2:2005+A2:2019
CONCRETE STRENGTH CLASS : C32/40
MAXIMUM W/C RATIO : 0.45
MINIMUM CEMENT CONCRETE CONTENT : 360kg/m³
- REQUIREMENTS FOR CESS TROUGHING ROUTES TO BE CONFIRMED AT DETAILED DESIGN.
- BALLAST DEPTH 350 MIN. MEASURED FROM UNDERSIDE OF LOWEST SLEEPER. MAXIMUM DEPTH OF BALLAST WILL BE 557mm
- TYPE 1 FILL TO BE INSTALLED IN 1500mm STRIPS RUNNING ABUTMENT TO ABUTMENT (PARALLEL TO TRACKS). EACH STRIP IS TO BE FULLY BACKFILLED PRIOR TO PROGRESSING TO THE NEXT LOCATION.
- MADE GROUND SHOULD BE EXCAVATED UNTIL GLACIAL TILL WITH A MINIMUM Cu OF 50kPa IS REACHED. THIS SHOULD BE CONFIRMED ON SITE USING HAND SHEAR VANE TESTING BY A COMPETENT PERSON. IF FOUND TO BE LOWER THAN EXPECTED 47m AOD DESIGNER IS TO BE NOTIFIED.
- PROPOSED FOUNDATION DESIGN IS BASED ON THE DRAFT BOREHOLE LOGS. FINAL DESIGN WILL INCLUDE REVIEW OF FACTUAL GROUND INVESTIGATION REPORT.
- HALFEN ML-85 BRICK TIE CHANNEL ANCHORS OR SIMILAR APPROVED CAST INTO PRECAST "L" UNITS.
- NOTE ROBUST KERB HEIGHT INCREASED BY 25mm TO ACCOUNT FOR EXPECTED SETTLEMENT.

AD1	22/02/23	FORM A FOR APPROVAL	GF	JC	DB
Rev	Date	Description	Drawn	Check	Approv

NetworkRail

MURPHY
WORLD-CLASS INFRASTRUCTURE

PROJECT:
LNW FRAMEWORK CP6
OP No. 164698

ARCADIS
Registered office: Arcadis Consulting UK Ltd, 80 Fenchurch Street, London EC3M 4BY
Coordinating office: 5th Floor, 401 Faraday Street, Birchwood Park, Warrington WA3 6GA, Tel: 44 (0)1925 800700
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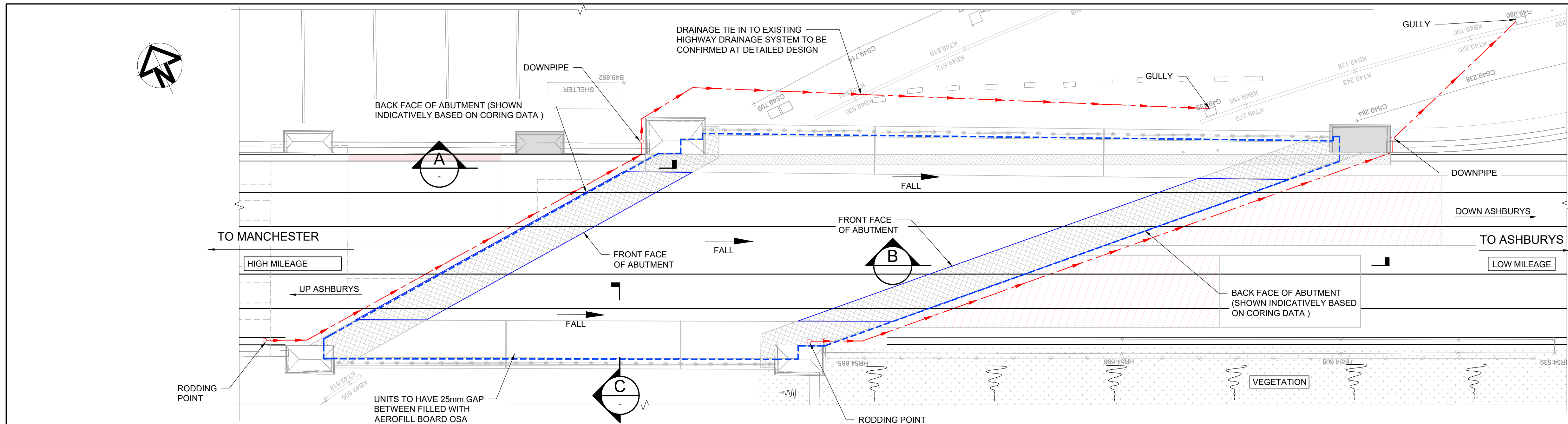
TITLE:
PPA2/1 RONDIN ROAD UNDERBRIDGE PROPOSED SECTIONS

Designed	A. LITTLEWOOD	Sign	22-02-2023
Drawn	G. FERNANDES	Sign	22-02-2023
Checked	J. CUNNIFFE	Sign	22-02-2023
Reviewed	D. BEEVER	Sign	22-02-2023
Approved	D. BEEVER	Sign	22-02-2023
Scale:	As shown	Datum:	AOD
Original Size:	A1	Grid:	TPEN16 SNAKEGRID
ELR:	PPA2	Mileage:	0m 0430yds
Suitability Code:	S3	Project Number:	10047371

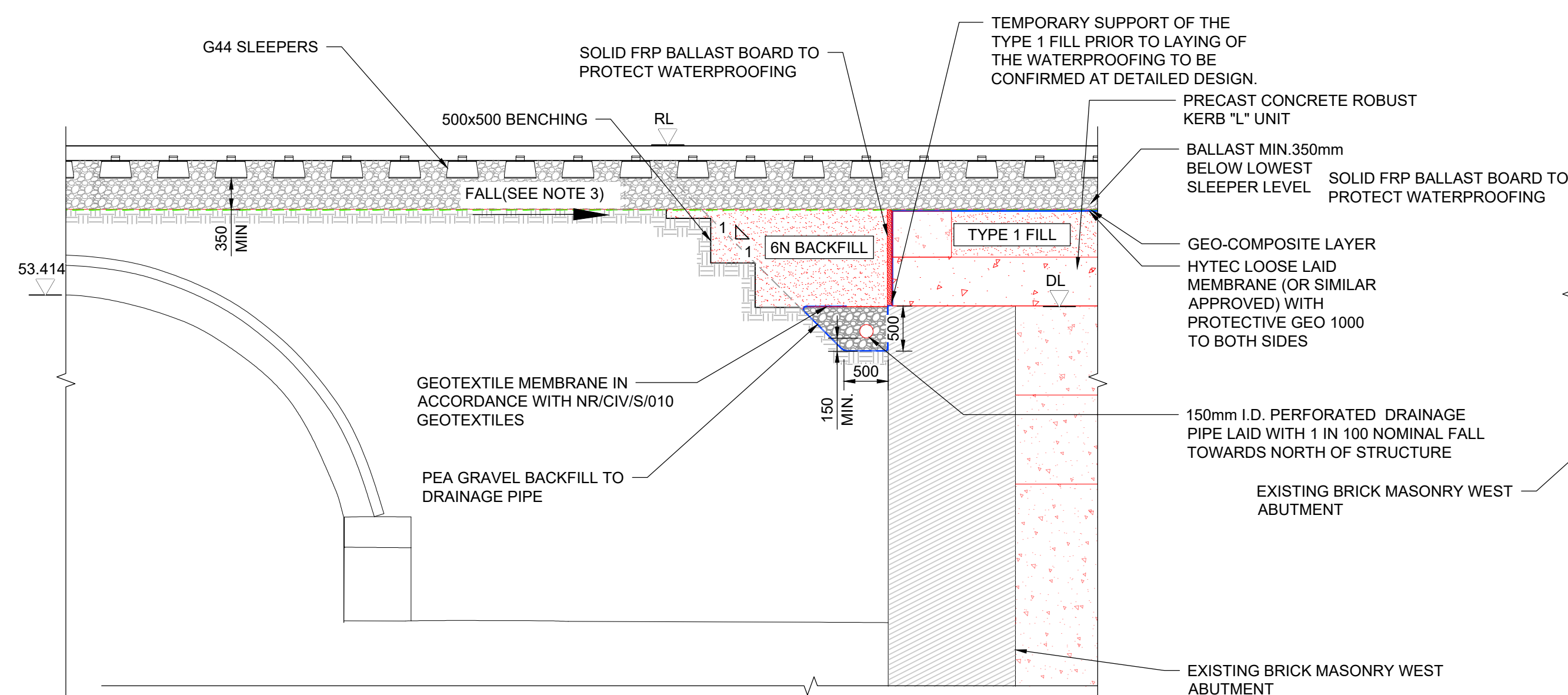
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FORM A FOR APPROVAL

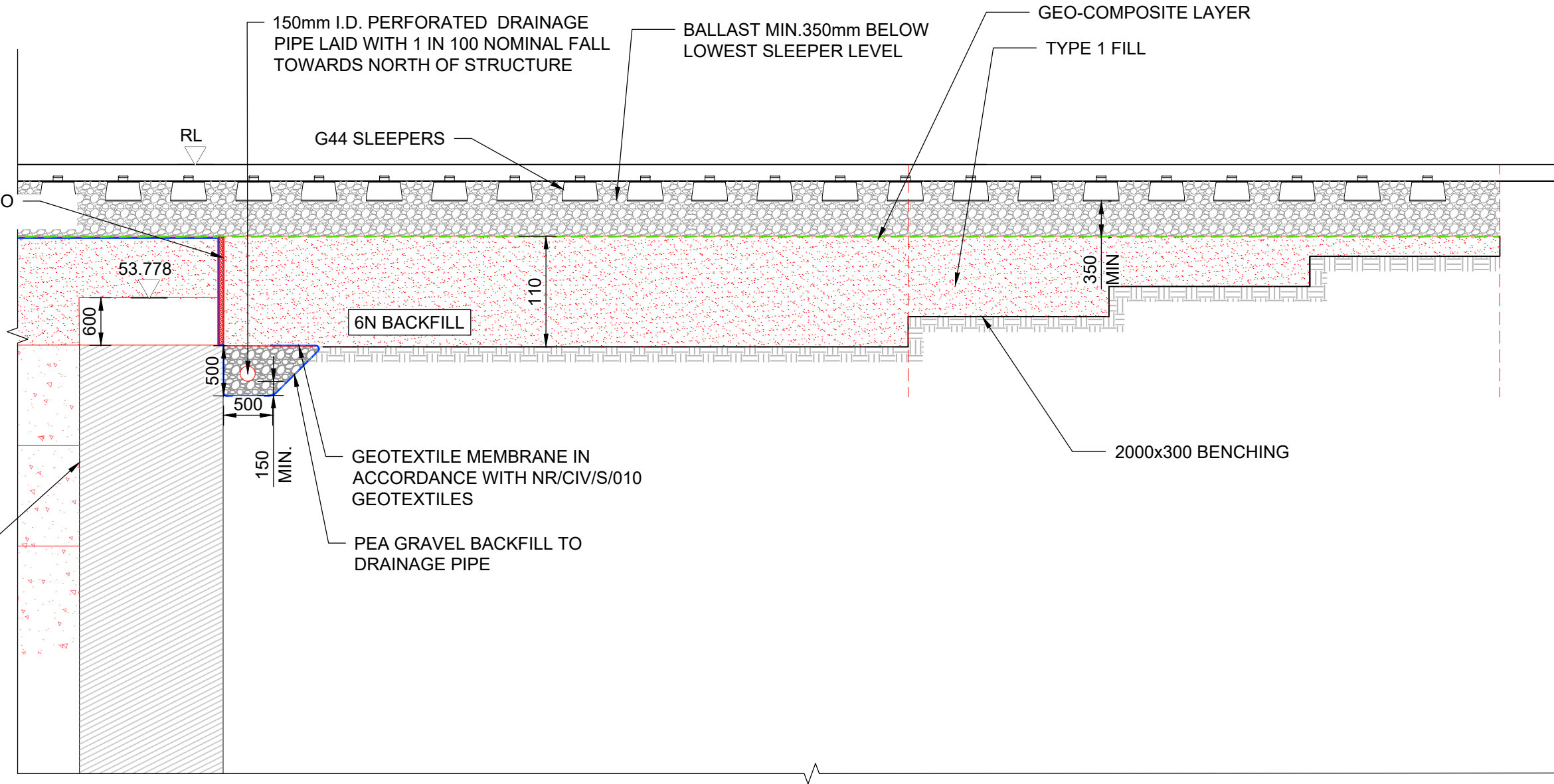
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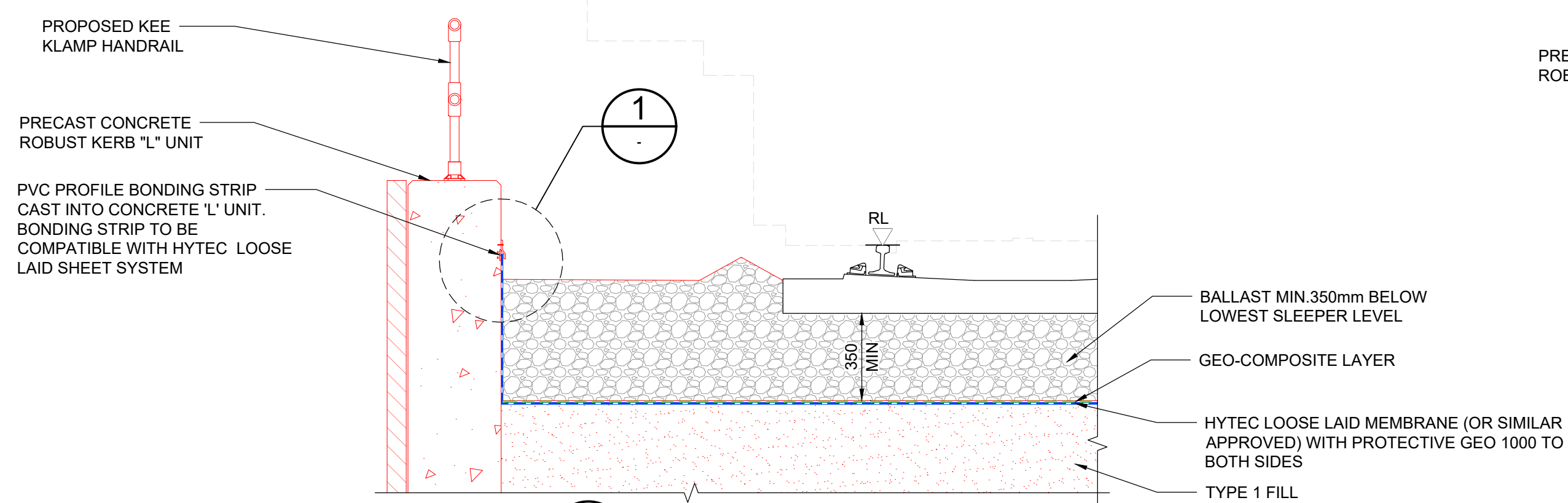
PLAN
SCALE: 1:100



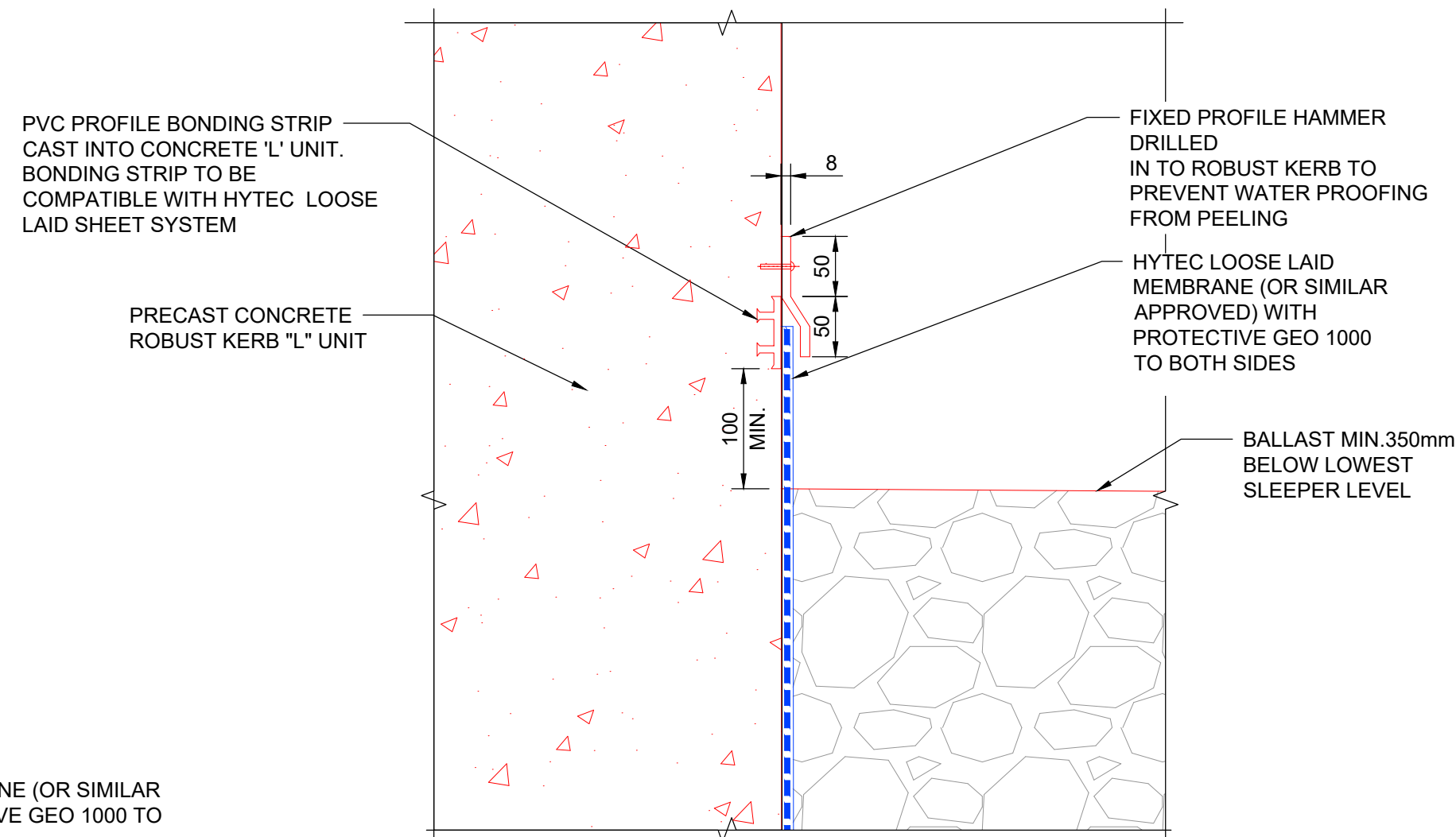
A SECTION
SCALE: 1:50



B SECTION
SCALE: 1:50



C SECTION
SCALE: 1:25



1 DETAIL
SCALE: 1:5

NOTE: DETAILS FOR MASONRY WATERPROOFING TERMINATION WILL BE THE SAME BUT WITHOUT CAST IN PVC BONDING STRIP

NOTES:

- DO NOT SCALE FROM DRAWING.
- ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS ARE IN METRES UNLESS NOTED OTHERWISE.
- WATERPROOFING TO FALL TOWARDS EAST END OF INFILL. FALL TO BE ACCOMMODATED WITH VARYING DEPTH IN TYPE 1 FILL.

LEGEND :

- RL. - RAIL LEVEL
- DL. - DEMOLITION LEVEL
- OSA. - OR SIMILAR APPROVED
- PROPOSED DRAINAGE
- PROPOSED WATERPROOFING
- PROPOSED GEOGRID LAYER
- WATERPROOFING EXTENTS

Rev	Date	Description	Drawn	Check	Approv
A01	22/02/23	FORM A FOR APPROVAL	GF	JC	DB



PROJECT:

LNW FRAMEWORK CP6
OP No. 164698



Registered office:
Arcadis Consulting UK Ltd
80 Fenchurch Street
London E3CM 4BY

Coordinating office:
5th Floor, 401 Faraday Street,
Birchwood Park,
Warrington WA3 6GA
Tel: 44 (0)1925 800700

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TITLE:

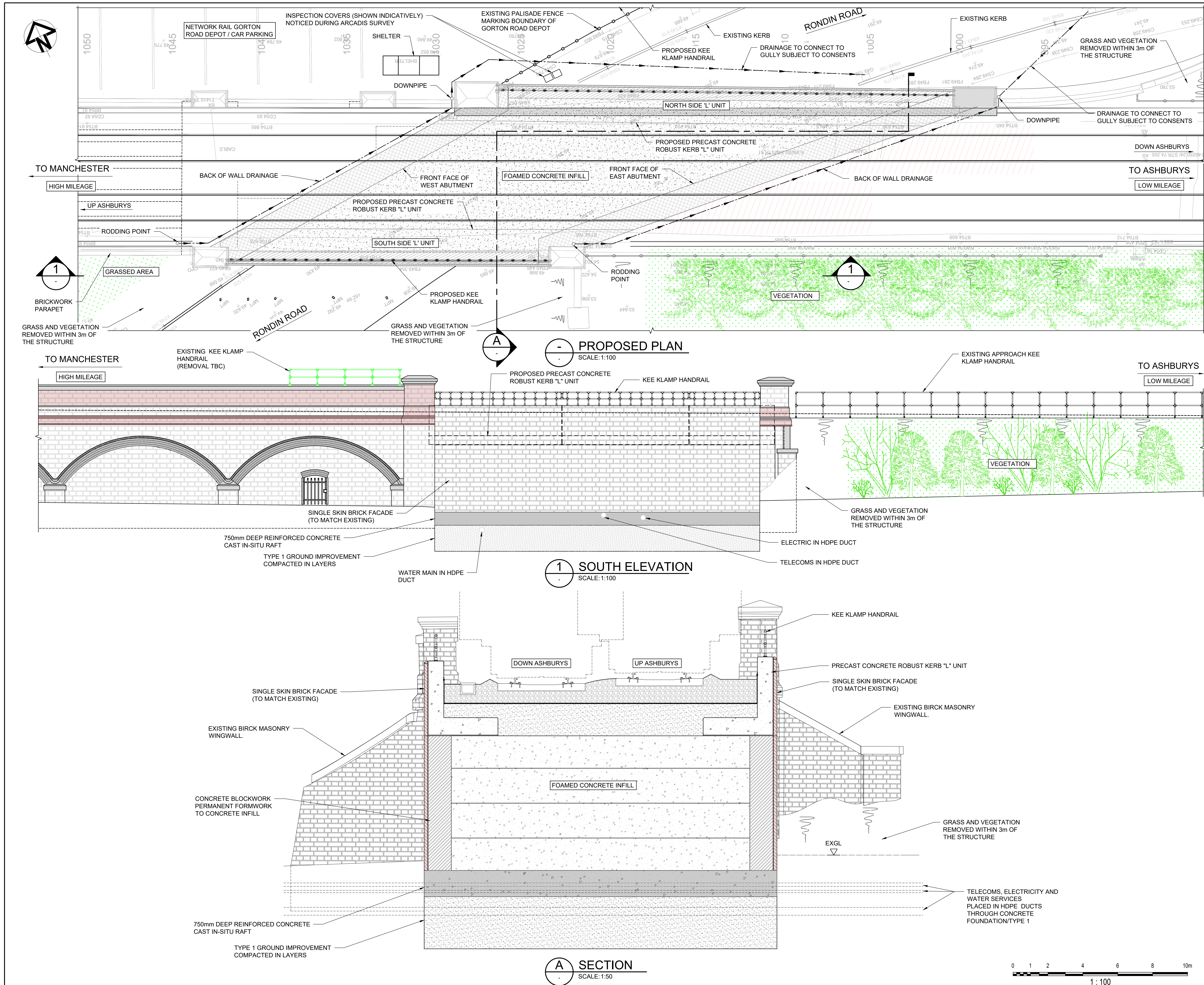
PPA2/1 RONDIN ROAD
UNDERBRIDGE
WATERPROOFING AND
DRAINAGE DETAILS

Designed	A.LITTLEWOOD	Signed	[Signature]	Date	22-02-2023
Drawn	G.FERNANDES	Signed	[Signature]	Date	22-02-2023
Checked	J.CUNNIFFE	Signed	[Signature]	Date	22-02-2023
Reviewed	D.BEEVER	Signed	[Signature]	Date	22-02-2023
Approved	D.BEEVER	Signed	[Signature]	Date	22-02-2023
Scale:	As shown	Datum:	AOD		
Original Size:	A1	Grid:	TPEN16 SNAKEGRID		
ELR:	PPA2	Mileage:	0m 0430yds		
Suitability Code:	S3	Project Number:	10047371		

Suitability Description:

FORM A FOR APPROVAL

Drawing Number:	10047371-ARC-11-XX-DR-CE-000025	Revision:	A01
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- NOTES:**
- DO NOT SCALE FROM DRAWING.
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LEGEND:

AS	ADJUSTMENT SWITCH
BX	JUNCTION BOX
BWX	WOODEN WALKWAY
BT/BB	BALLAST SHOULDER TOP/BOT
BR	BRIDGE
CD	CABLE TROUGH
CS	CHANGE OF SURFACE
EXGL	EXISTING GROUND LEVEL
FT	FENCE TOP
FB	FENCE BOTTOM
G	GULLY
KB	KERB BOTTOM
KN	CROSSOVER KNUCKLE
KT	KERB TOP
MPT	METAL POST

A01	22/02/23	FORM A FOR APPROVAL	GF	JC	DB
Rev	Date	Description	Drawn	Check	Approv



PROJECT:
LNW FRAMEWORK CP6
OP No. 164698

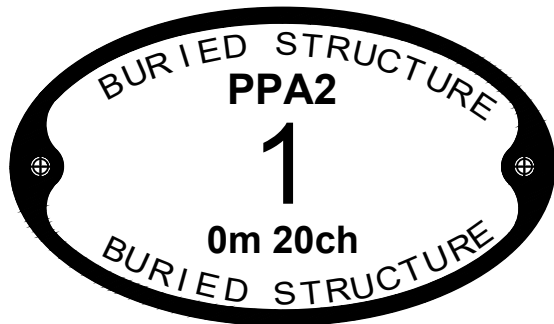
ARCADIS
Registered office:
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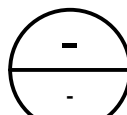
www.arcadis.com

TITLE:
PPA2/1 RONDIN ROAD
UNDERBRIDGE
PLANNING DRAWING

Designed	A.LITTLEWOOD	Signed	[Signature]	Date	22-02-2023
Drawn	G.FERNANDES	Signed	[Signature]	Date	22-02-2023
Checked	J.CUNNIFFE	Signed	[Signature]	Date	22-02-2023
Reviewed	D.BEEVER	Signed	[Signature]	Date	22-02-2023
Approved	D.BEEVER	Signed	[Signature]	Date	22-02-2023
Scale:	As shown	Datum:	AOD		
Original Size:	A1	Grid:	TPEN16 SNAKEGRID		
ELR:	PPA2	Mileage:	0m 0430yds		
Suitability Code:	S3	Project Number:	10047371		

Suitability Description:
FORM A FOR APPROVAL
Drawing Number:
10047371-ARC-11-XX-DR-CE-000030
Revision:
A01



 **BURIED STRUCTURE PLATE**
SCALE: 1:5

1No. REQUIRED IN TOTAL

SIGN REF:	CUSTOM
PRESENTATION:	BLACK BORDER, BLACK TEXT ON A WHITE BACKGROUND, LUMINANCE TO BE CLASS RA2 RETRO-REFLECTIVITY PERMISSIBLE
LETTERING & DIGITS:	RAIL ALPHABET TYPEFACE SHALL BE USED
FIXINGS	EXACT POSITION TBC AT DETAILED DESIGN.

- NOTES:**
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A01	22/02/23	FORM A FOR APPROVAL	GF	JC	DB
Rev	Date	Description	Drawn	Check	Approv



PROJECT:

LNW FRAMEWORK CP6
OP No. 164698

**ARCADIS**

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TITLE:

PPA2/1 RONDIN ROAD
UNDERBRIDGE
PLANNING DRAWING

Designed	A.LITTLEWOOD	Signed		Date	22-02-2023
Drawn	G.FERNANDES	Signed		Date	22-02-2023
Checked	J.CUNNIFFE	Signed		Date	22-02-2023
Reviewed	D.BEEVER	Signed		Date	22-02-2023
Approved	D.BEEVER	Signed		Date	22-02-2023
Scale:	As shown	Datum:	AOD		
Original Size:	A1	Grid:	TPEN16 SNAKEGRID		
ELR:	PPA2	Mileage:	0m 0430yds		
Suitability Code:	S3	Project Number:	10047371		

Suitability Description:

FORM A FOR APPROVAL

Drawing Number: 10047371-ARC-11-XX-DR-CE-000035	Revision: A01
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