



MetroWest+

Portishead Branch Line (MetroWest Phase 1)

TR040011

Applicant: North Somerset District Council

2.7 Disused railway engineering plans / GRIP 4 Minor Civils – Part 1 of 2

The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009, regulation 5(2)(o)
Planning Act 2008

Author: Arup

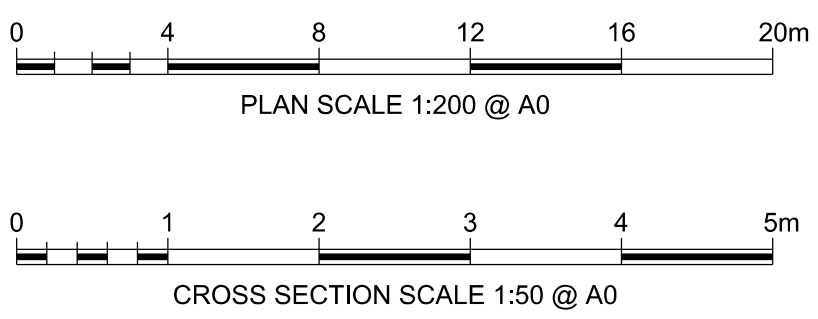
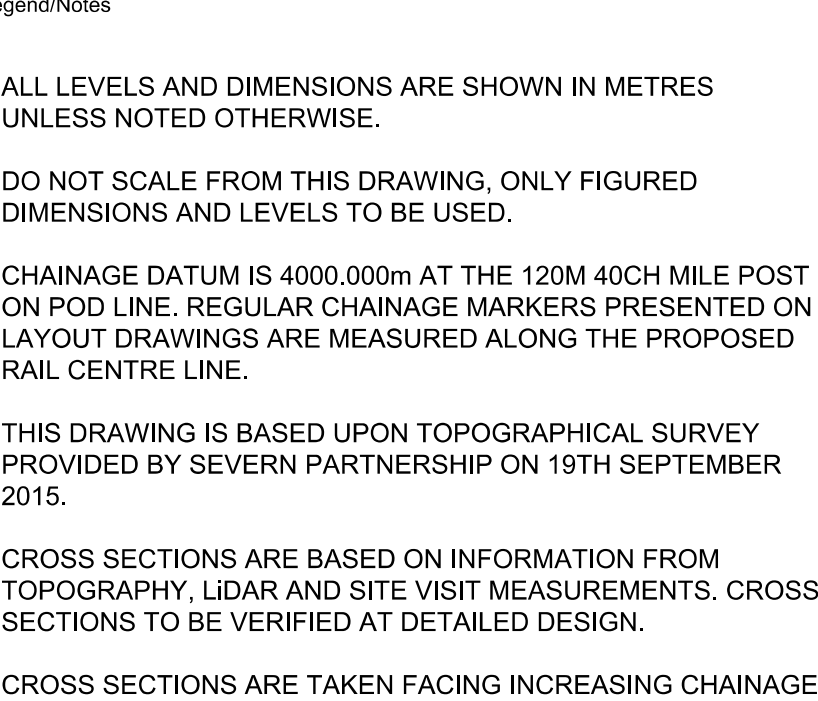
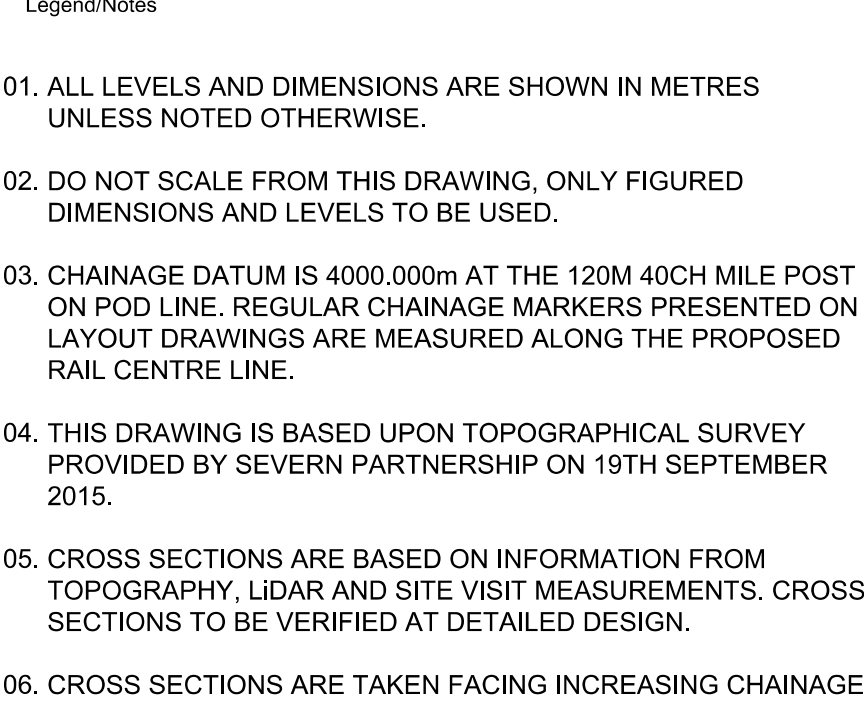
Revision: Version 2

Date: September 2020



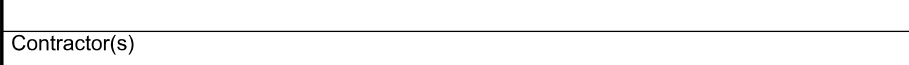
Document Index

Version	Date	Status of version	Document Index	Document Revision	Changes
1	19 November 2019	Application	2.7 Disused railway engineering plans / GRIP 4 Minor Civils – Sheet 1 to 15: W1097B-ARP-DRG-ECV-000301 Rev A03 W1097B-ARP-DRG-ECV-000302 Rev A03 W1097B-ARP-DRG-ECV-000303 Rev A03 W1097B-ARP-DRG-ECV-000304 Rev A03 W1097B-ARP-DRG-ECV-000305 Rev A03 W1097B-ARP-DRG-ECV-000306 Rev A03 W1097B-ARP-DRG-ECV-000307 Rev A03 W1097B-ARP-DRG-ECV-000308 Rev A03 W1097B-ARP-DRG-ECV-000309 Rev A03 W1097B-ARP-DRG-ECV-000310 Rev A03 W1097B-ARP-DRG-ECV-000311 Rev A03 W1097B-ARP-DRG-ECV-000312 Rev A03 W1097B-ARP-DRG-ECV-000313 Rev A03 W1097B-ARP-DRG-ECV-000314 Rev A03 W1097B-ARP-DRG-ECV-000315 Rev A03	-	-
2	21 September 2020	Pre-Preliminary Meeting amendments	2.7 Disused railway engineering plans / GRIP 4 Minor Civils – Sheet 1 to 15: W1097B-ARP-DRG-ECV-000301 Rev A03 W1097B-ARP-DRG-ECV-000302 Rev A03 W1097B-ARP-DRG-ECV-000303 Rev A03 W1097B-ARP-DRG-ECV-000304 Rev A03 W1097B-ARP-DRG-ECV-000305 Rev A03 W1097B-ARP-DRG-ECV-000306 Rev A03 W1097B-ARP-DRG-ECV-000307 Rev A03 W1097B-ARP-DRG-ECV-000308 Rev A03 W1097B-ARP-DRG-ECV-000309 Rev A03 W1097B-ARP-DRG-ECV-000310 Rev A03 W1097B-ARP-DRG-ECV-000311 Rev A03 W1097B-ARP-DRG-ECV-000312 Rev A03 W1097B-ARP-DRG-ECV-000313 Rev A03 W1097B-ARP-DRG-ECV-000314 Rev A03 W1097B-ARP-DRG-ECV-000315 Rev A03	N/A N/A A04 N/A A04 A04 A04 N/A N/A A04 N/A A04 A04 A04 N/A	- Text change as works now allow Network Rail to inspect the Pill station arches Label inserted to retain earth bank Label inserted to highlight important hedgerow Label inserted to highlight archaeological site Text deleted - ACO climate tunnels no longer required Text deleted - ACO climate tunnels no longer required; DLL reference added; 'potential' added to water voles label Symbol deleted as no bird boxes present; and 'potential' added to water voles label 'Potential' added to water voles label



Status	FIT FOR INFORMATION	Subst	S
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Status	FIT FOR INFORMATION	Subst	S
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[illegible]

Designed	J. BACINSKI	Signed	Date 24/0
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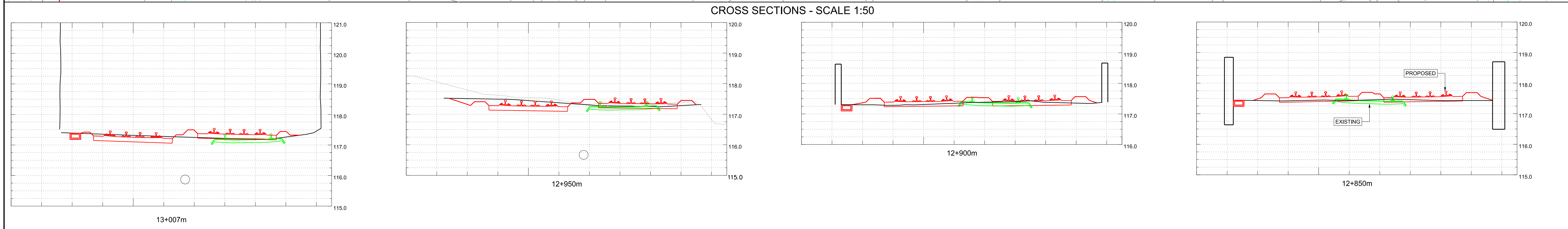
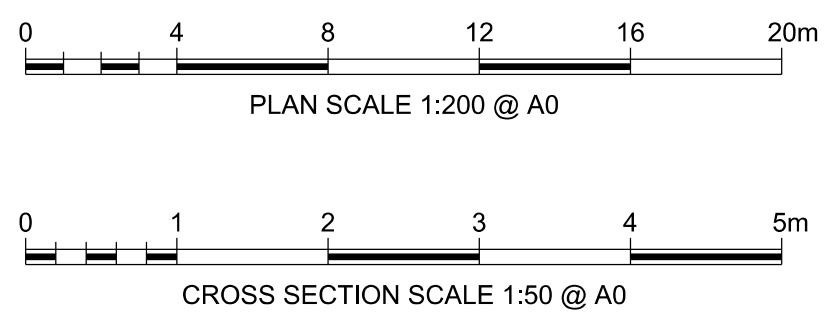
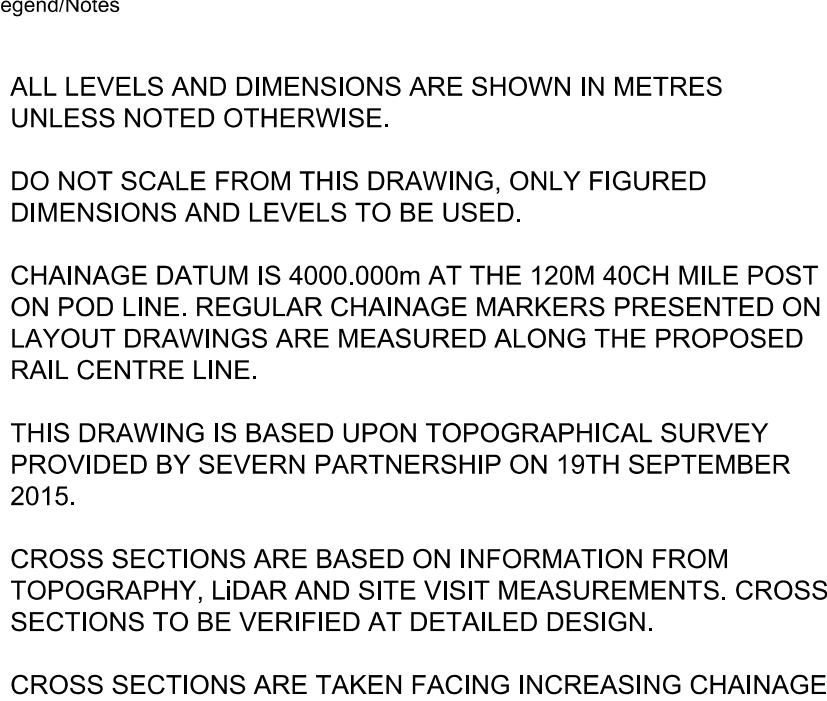
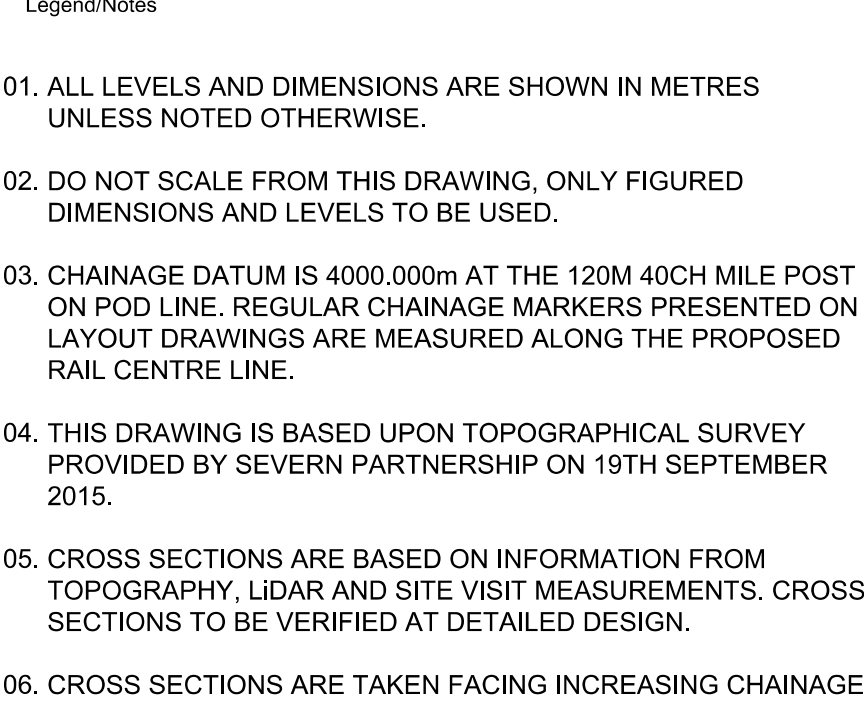
Checked	R. SNELL	Signed	Date 24/0
Approved	R. SNELL	Signed	Date

1:200	POD 125M 69CH
Alternative Reference	Sheet

Drawing Number	Revision
M/1097B-ABP-DRG-ECV-000301	A03

Sheet Size A0 841

LEGEND									
MINOR CIVILS			EXISTING UTILITIES			TELECOM LEGEND		SPECIES, ECOLOGY, LANDSCAPE	
EXISTING FENCE GRADE I		PROPOSED CABINET LOCATION (NOT TO SCALE)		WATER MAIN		INDICATIVE LOCATION OF SCRATCH BURIED PROPOSED ARMoured FIBRE CABLE		WATER VOLES	
EXISTING FENCE GRADE II		PROPOSED SIGNAL (NOT TO SCALE)		FOUL SEWER		NOTE: EQUIPMENT SITE NOT SHOWN TO SCALE		BATS	
EXISTING FENCE GRADE III		EXISTING CABINET TO BE REMOVED/RELOCATED		SEWER SURFACE		TELEPHONE (PROPOSED)		DORMICE	
EXISTING FENCE REMOVED		EXISTING SIGNAL TO BE REMOVED		HIGH VOLTAGE ELECTRICITY - BELOW GROUND		BOX ON POST (PROPOSED)		OTTERS	
EXISTING FENCE MODIFIED/REPLACED WITH GRADE I FENCE		EXISTING CABINET LOCATION		LOW VOLTAGE ELECTRICITY - BELOW GROUND		FIBRE JOINT (PROPOSED)		REPTILES	
EXISTING FENCE MODIFIED/REPLACED WITH GRADE II FENCE		MINOR EARTHWORKS RETAINING STRUCTURE		HIGH VOLTAGE ELECTRICITY - ABOVE GROUND				GREAT CRESTED NEWT	
EXISTING FENCE MODIFIED/REPLACED WITH GRADE III FENCE		EARTHWORKS STRUCTURE		LOW VOLTAGE ELECTRICITY - ABOVE GROUND				BIRD BOX (PROPOSED)	
PROPOSED FENCE GRADE I		NOISE BARRIER		GPSS PIPELINE		PROPOSED GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS - RAILWAY (GSM-R) REPEATER SITE WITH REMOTE RADIO HEAD (RRH) AND ANTENNA			
PROPOSED FENCE GRADE II		DEVELOPMENT CONSENT ORDER (DCO)		LOW PRESSURE GAS MAIN		PROPOSED FIXED TELECOMMUNICATION NETWORK (FTN) ACCESS NODE WITH GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS - RAILWAY (GSM-R)		AREA OF VEGETATION TO BE RETAINED DURING CONSTRUCTION	
PROPOSED FENCE GRADE III		LAND BOUNDARY		MEDIUM PRESSURE GAS MAIN		EXISTING FIXED TELECOMMUNICATION NETWORK (FTN) ACCESS NODE WITH GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS - RAILWAY (GSM-R) CO-LOCATED		WOODLAND TO BE PLANTED DURING CONSTRUCTION	
PROPOSED TROUING		CONTINUOUS POSITION OF SAFETY		HIGH PRESSURE GAS MAIN				GRASSLAND TO BE PLANTED DURING CONSTRUCTION	
EXISTING TROUING		AUTHORISED WALKING ROUTE		BT CABLE - BELOW GROUND				HEDGE/TREES TO BE PLANTED DURING CONSTRUCTION	
REMOVED TROUING		EXTENT OF RAIL CORRIDOR TO BE CLEAR OF VEGETATION		BT CABLE ABOVE GROUND					
EXISTING TROUING MODIFIED/REPLACED		EXTENT OF RAIL CORRIDOR TO BE CLEAR OF VEGETATION		CABLE & WIRELESS					
PROPOSED UNDER TRACK CROSSING (UTX)		EXTENT OF RAIL CORRIDOR TO BE CLEAR OF VEGETATION WITH NETWORK RAIL (NR) OPTION TO CLEAR IN FUTURE SHOWN CROSS HATCHED		VIRGIN MEDIA CABLE - BELOW GROUND					
EXISTING UNDER TRACK CROSSING (UTX)				VERIZON BACKBONE DUCT - BELOW GROUND					
REMOVED UNDER TRACK CROSSING (UTX)				EXISTING DITCHES TO BE RETAINED/REPLACED					



A01	15/03/19	ISSUED FOR INFORMATION	JB	RS
A02	03/05/19	FOR DCO PLANNING APPLICATION	JB	RS
A03	24/07/19	FOR DCO PLANNING APPLICATION	JB	RS
Rev	Date	Description of Revisions	Drawn	Chkd
Status			Suitable for	
FIT FOR INFORMATION				
			Suitable for	

FIT FOR INFORMATION

Contractor(s)	
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ARUP 63 St Thomas Street
Bristol BS1 6JZ
Tel +44(0)117 978 5432 Fax +44(0)117 978 5433
www.arup.com

Project	METROWEST PHASE 1
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Drawing Title

DISUSED RAILWAY ENGINEERING
PLANS
GRIP 4 MINOR CIVILS
CH.12830m TO CH.13030m

Designed	J. BACINSKI	Signed	Date 24/0
Drawn	J. BACINSKI	Signed	Date 24/0
Checked	R. SNELL	Signed	Date 24/0
Approved	R. SNELL	Signed	Date

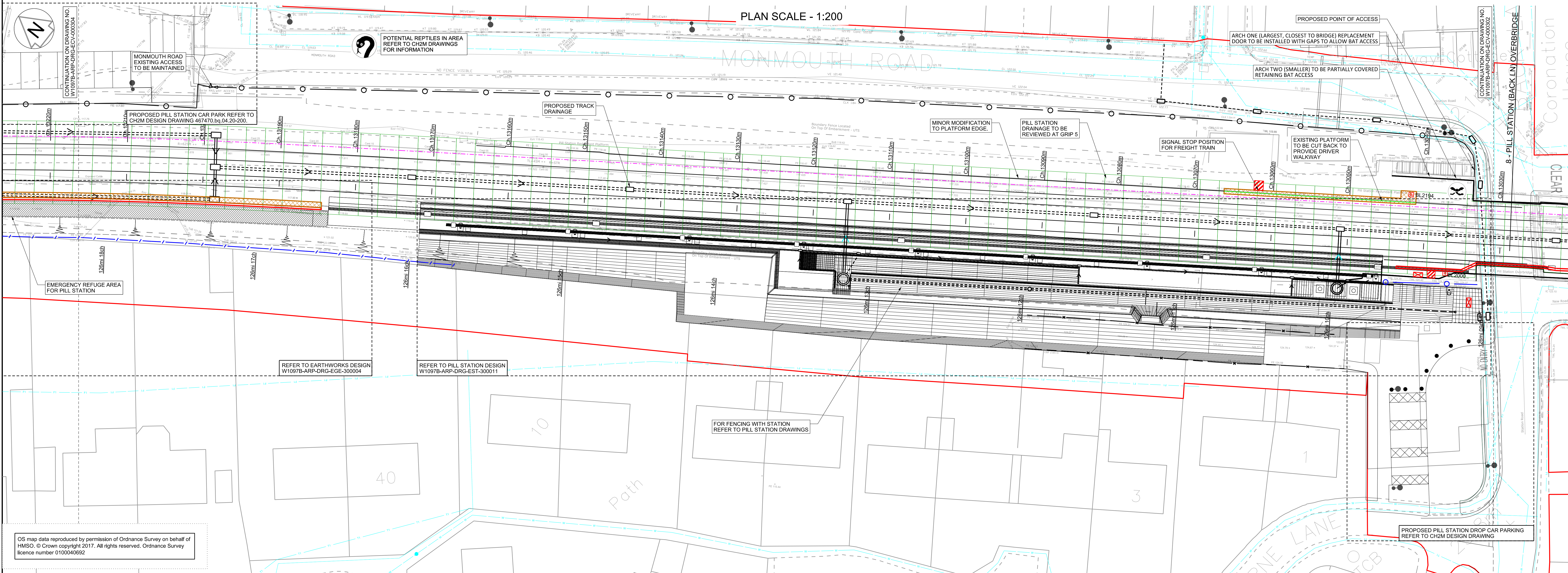
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Alternative Reference	Sheet

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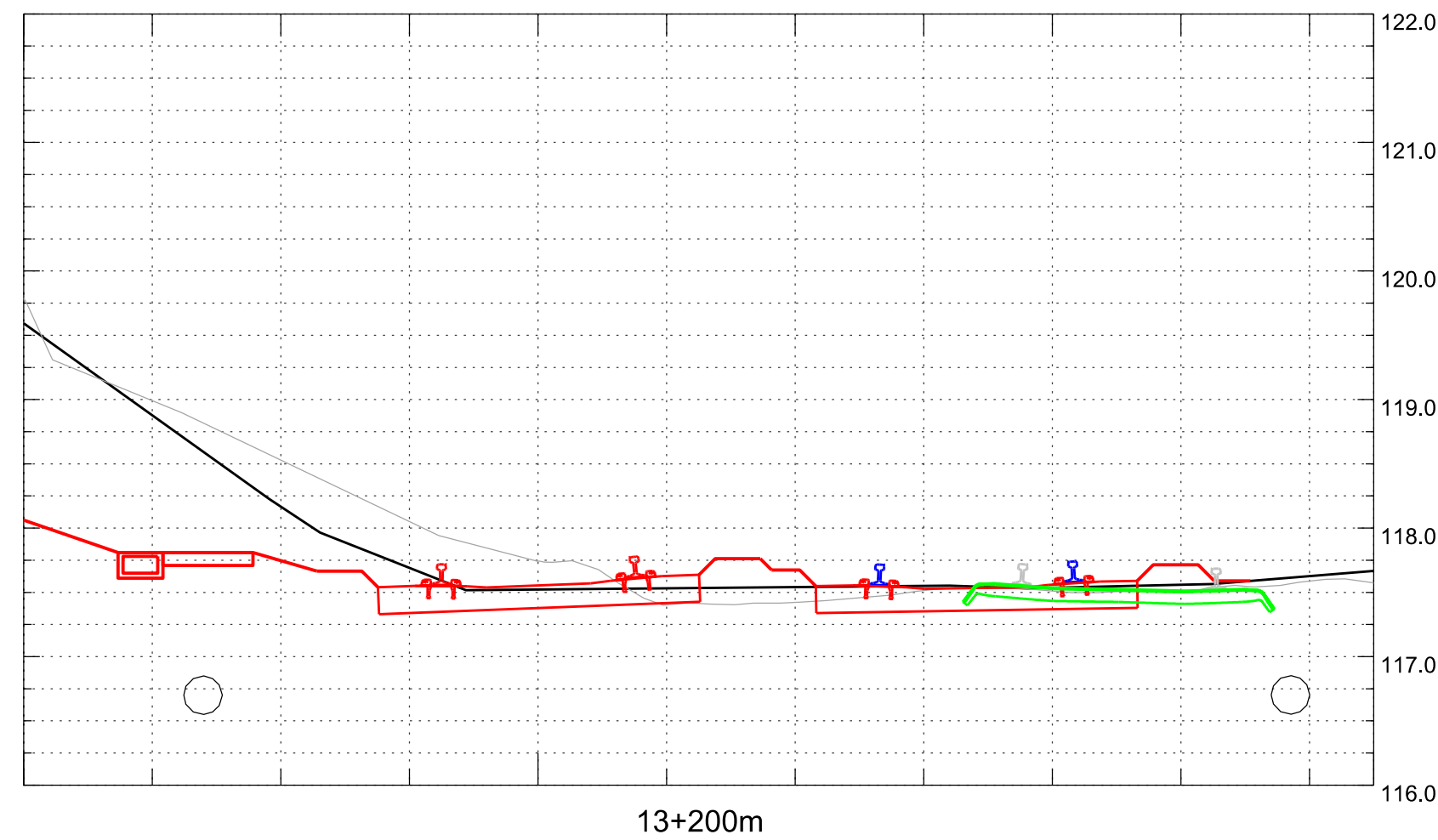
Drawing Number	Revision
W1097B-ARP-DRG-ECV-000302	A03

LEGEND				
MINOR CIVILS		EXISTING UTILITIES	TELECOM LEGEND	SPECIES, ECOLOGY, LANDSCAPE
EXISTING FENCE GRADE I		WATER MAIN	INDICATIVE LOCATION OF SCRATCH BURIED PROPOSED ARMOURIED FIBRE CABLE	WATER VOLES
EXISTING FENCE GRADE II		FOUL SEWER	NOTE: EQUIPMENT SIZE NOT SHOWN TO SCALE	BATS
EXISTING FENCE GRADE III		RISING MAIN	TELEPHONE (PROPOSED)	DORMICE
EXISTING FENCE REMOVED		SEWER SURFACE		OTTERS
EXISTING FENCE MODIFIED/REPLACED WITH GRADE I FENCE		HIGH VOLTAGE ELECTRICITY - BELOW GROUND	BOX ON POST (PROPOSED)	REPTILES
EXISTING FENCE MODIFIED/REPLACED WITH GRADE II FENCE		LOW VOLTAGE ELECTRICITY - BELOW GROUND		GREAT GREYSTED NEWIT
EXISTING FENCE MODIFIED/REPLACED WITH GRADE III FENCE		HIGH VOLTAGE ELECTRICITY - ABOVE GROUND	FIBRE JOINT (PROPOSED)	BIRD BOX (PROPOSED)
PROPOSED FENCE GRADE I		LOW VOLTAGE ELECTRICITY - ABOVE GROUND	PROPOSED GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS - RAILWAY (GSM-R) REPEATER SITE WITH REMOTE RADIO HEAD (RRH) AND ANTENNA	AREA OF VEGETATION TO BE RETAINED DURING CONSTRUCTION
PROPOSED FENCE GRADE II		GPSS PIPELINE		WOODLAND TO BE PLANTED DURING CONSTRUCTION
PROPOSED FENCE GRADE III		LOW PRESSURE GAS MAIN	PROPOSED FIXED TELECOMMUNICATION NETWORK (FTN) ACCESS NODE WITH GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS - RAILWAY (GSM-R) CO-LOCATED	GRASSLAND TO BE PLANTED DURING CONSTRUCTION
PROPOSED TROUGHING		MEDIUM PRESSURE GAS MAIN		HEDGE/TREES TO BE PLANTED DURING CONSTRUCTION
EXISTING TROUGHING		HIGH PRESSURE GAS MAIN	EXISTING FIXED TELECOMMUNICATION NETWORK (FTN) ACCESS NODE WITH GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS - RAILWAY (GSM-R) CO-LOCATED	
REMOVED TROUGHING		BT CABLE - BELOW GROUND		
EXISTING TROUGHING MODIFIED/REPLACED		BT CABLE ABOVE GROUND		
PROPOSED UNDER TRACK CROSSING (UTX)		CABLE & WIRELESS		
EXISTING UNDER TRACK CROSSING (UTX)		VIRGIN MEDIA CABLE - BELOW GROUND		
REMOVED UNDER TRACK CROSSING (UTX)		VERIZON BACKBONE DUCT - BELOW GROUND		
		EXISTING DITCHES TO BE RETAINED/REPLACED		

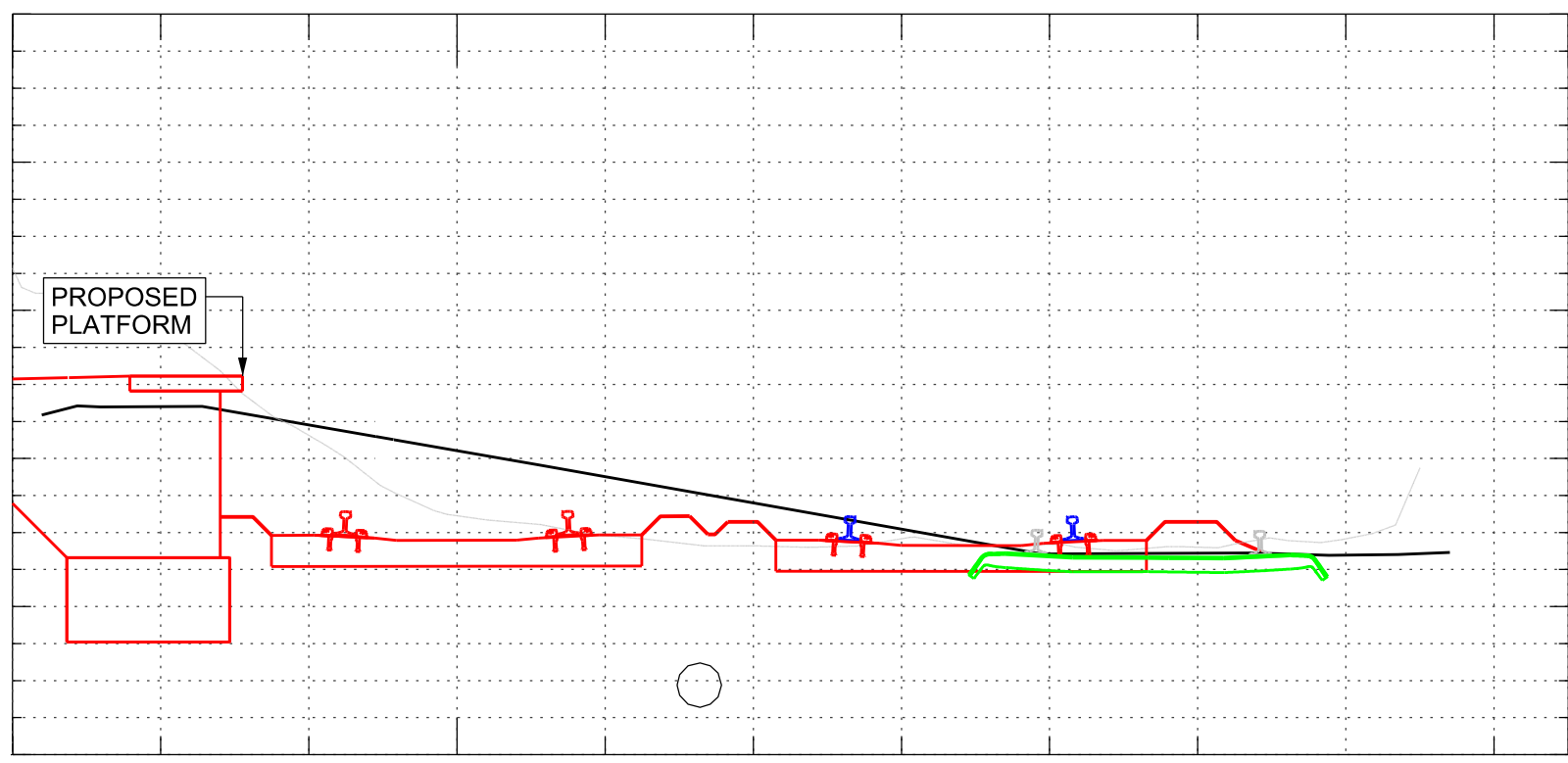


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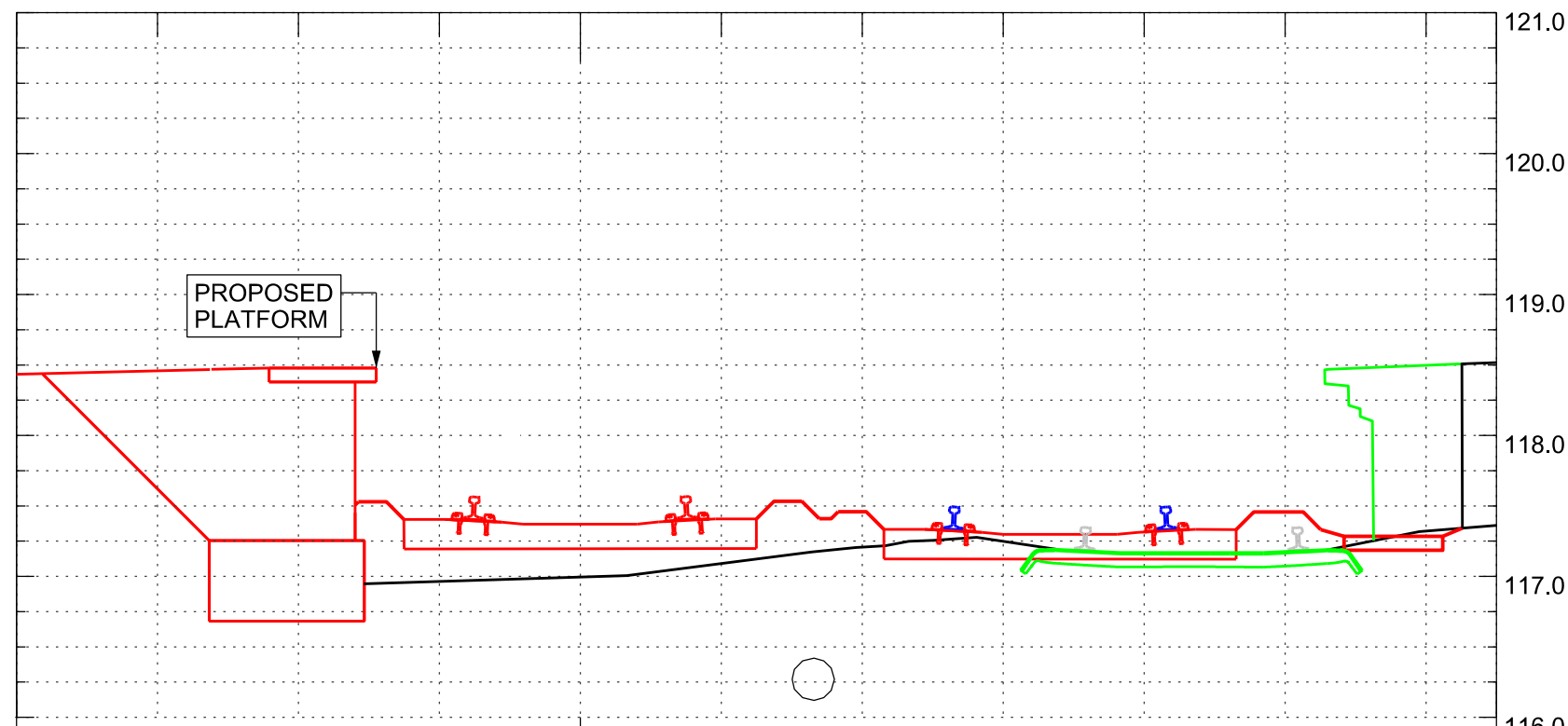
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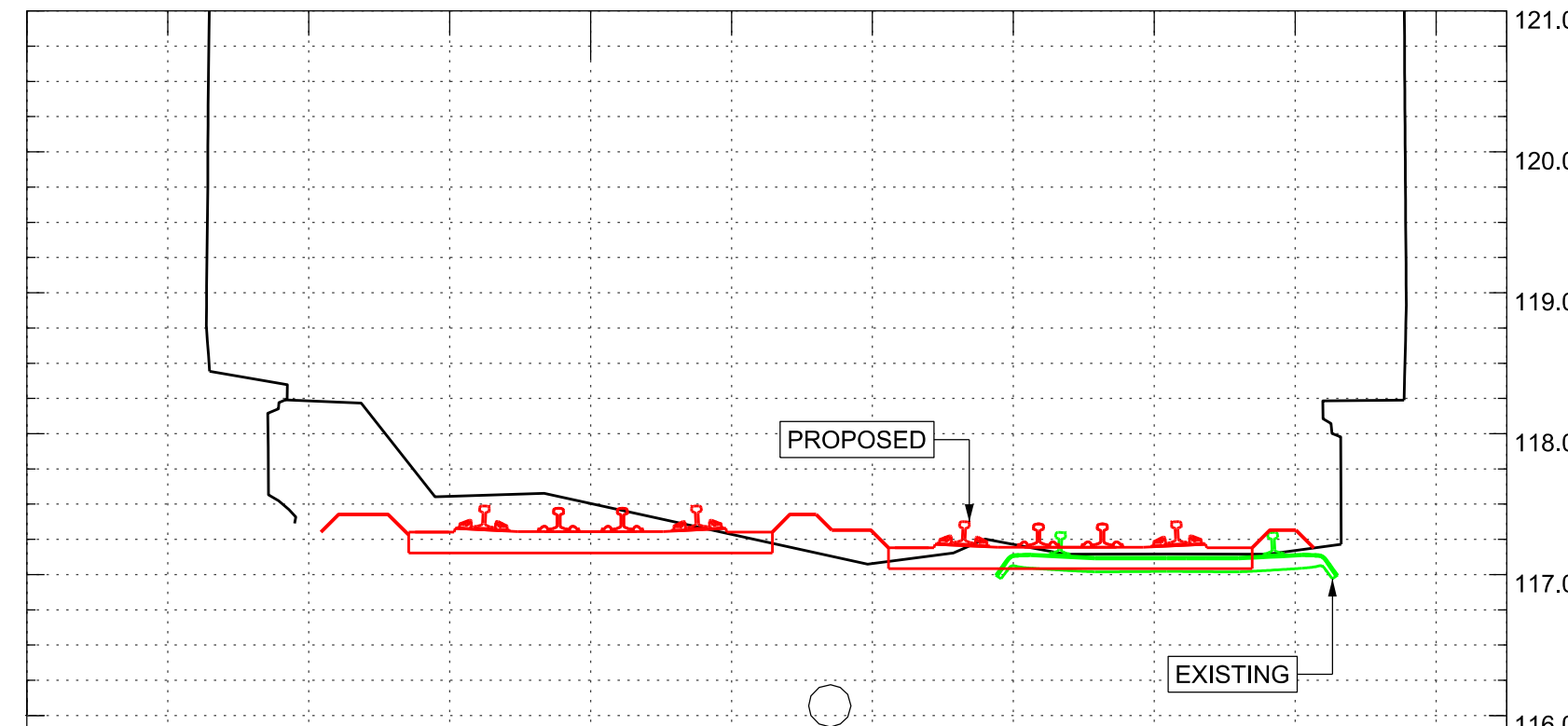
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13+050m



13+025m

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PLAN SCALE 1:200 @ A0

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A01	15/03/19	ISSUED FOR INFORMATION	JB	RS	RS
A02	03/05/19	FOR DCO PLANNING APPLICATION	JB	RS	RS
A03	24/07/19	FOR DCO PLANNING APPLICATION	JB	RS	RS
A04	28/08/20	FOR DCO PLANNING APPLICATION	JB	RS	RS
Rev	Date	Description of Revisions	Drawn	Crtd	Appr

Status
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Contractor(s)

ARUP
61 St Thomas Street
Bristol BS1 6LZ
Tel +44(0)117 976 5432 Fax +44(0)117 976 5433
www.arup.com

Project
METROWEST PHASE 1

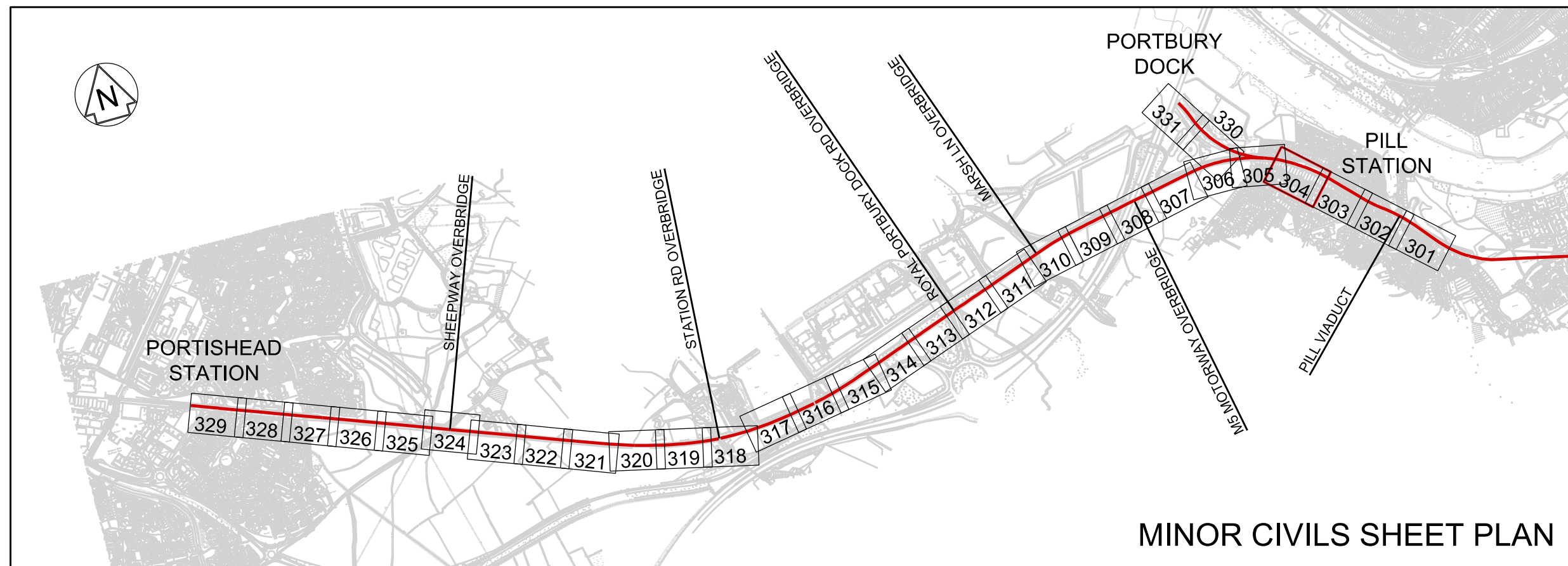
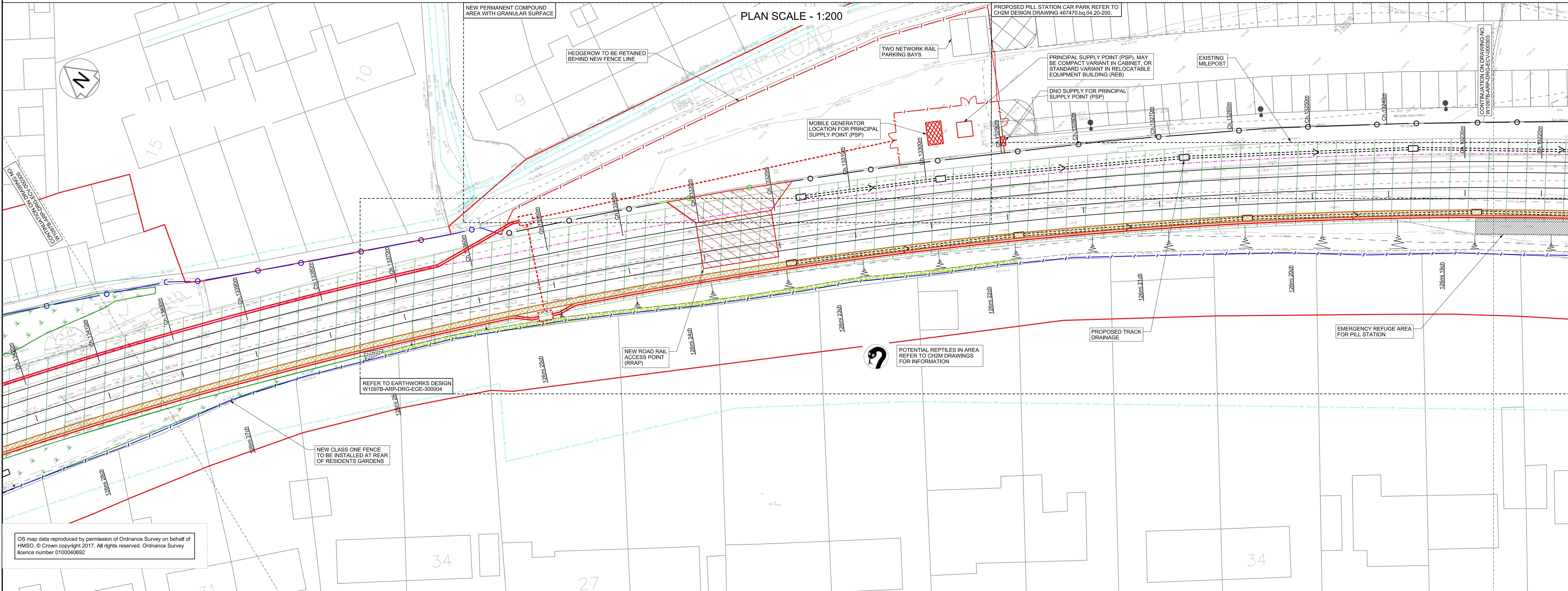
Drawing Title
**DISUSED RAILWAY ENGINEERING PLANS
GRIP 4 MINOR CIVILS
CH.13030m TO CH.13220m**

Designed	J. BACINSKI	Signed		Date	28/08/20
Drawn	J. BACINSKI	Signed		Date	28/08/20
Checked	R. SNELL	Signed		Date	28/08/20
Approved	R. SNELL	Signed		Date	28/08/20
Scale(s)	1:200	ELR & Mileage	POD 126M 09CH	Sheet	3 of 31
Alternative Reference				Revision	

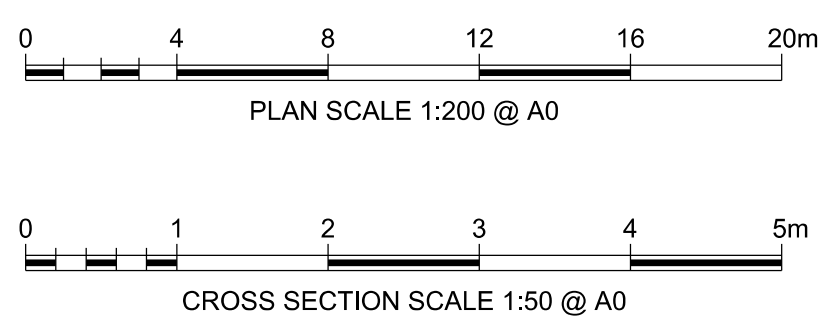
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Sheet Size A0 841 x 1195

LEGEND			
MINOR CIVILS		TELECOM LEGEND	
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EXISTING FENCE GRADE II	—	NOTE: EQUIPMENT SIZE NOT SHOWN TO SCALE	
EXISTING FENCE GRADE III	—	TELEPHONE (PROPOSED)	☒
EXISTING FENCE REMOVED	—	BOX ON POST (PROPOSED)	☒
EXISTING FENCE MODIFIED/REPLACED WITH GRADE I FENCE	—	FIBRE JOINT (PROPOSED)	☒
EXISTING FENCE MODIFIED/REPLACED WITH GRADE II FENCE	—	PROPOSED GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS - RAILWAY (GSM-R) REPEATER SITE WITH REMOTE RADIO HEAD (RRH) AND ANTENNA	☒
EXISTING FENCE MODIFIED/REPLACED WITH GRADE III FENCE	—	PROPOSED FIXED TELECOMMUNICATION NETWORK (FTN) ACCESS NODE WITH GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS - RAILWAY (GSM-R) CO-LOCATED	☒
PROPOSED FENCE GRADE I	—	EXISTING FIXED TELECOMMUNICATION NETWORK (FTN) ACCESS NODE WITH GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS - RAILWAY (GSM-R) CO-LOCATED	☒
PROPOSED FENCE GRADE II	—		
PROPOSED FENCE GRADE III	—		
PROPOSED TROUING	—		
EXISTING TROUING	—		
REMOVED TROUING	—		
EXISTING TROUING MODIFIED/REPLACED	—		
PROPOSED UNDER TRACK CROSSING (UTX)	—		
EXISTING UNDER TRACK CROSSING (UTX)	—		
REMOVED UNDER TRACK CROSSING (UTX)	—		
PROPOSED CABINET LOCATION (NOT TO SCALE)	☒		
PROPOSED SIGNAL (NOT TO SCALE)	☒		
EXISTING CABINET TO BE REMOVED/RELOCATED	☒		
EXISTING SIGNAL TO BE REMOVED	☒		
EXISTING CABINET LOCATION	☒		
MINOR EARTHWORKS RETAINING STRUCTURE	☒		
EARTHWORKS STRUCTURE	☒		
NOISE BARRIER	☒		
DEVELOPMENT CONSENT ORDER (DCO)	☒		
LAND BOUNDARY	☒		
CONTINUOUS POSITION OF SAFETY	☒		
AUTHORISED WALKING ROUTE	☒		
EXTENT OF RAIL CORRIDOR TO BE CLEAR OF VEGETATION	☒		
EXTENT OF RAIL CORRIDOR TO BE CLEAR OF VEGETATION WITH NETWORK RAIL (NR) OPTION TO CLEAR IN FUTURE SHOWN CROSS HATCHED	☒		
WATER MAIN	—		
FOUL SEWER	—		
RISING MAIN	—		
SEWER SURFACE	—		
HIGH VOLTAGE ELECTRICITY - BELOW GROUND	—		
LOW VOLTAGE ELECTRICITY - BELOW GROUND	—		
HIGH VOLTAGE ELECTRICITY - ABOVE GROUND	—		
LOW VOLTAGE ELECTRICITY - ABOVE GROUND	—		
GPSS PIPELINE	—		
LOW PRESSURE GAS MAIN	—		
MEDIUM PRESSURE GAS MAIN	—		
HIGH PRESSURE GAS MAIN	—		
BT CABLE - BELOW GROUND	—		
BT CABLE ABOVE GROUND	—		
CABLE & WIRELESS	—		
VIRGIN MEDIA CABLE - BELOW GROUND	—		
VERIZON BACKBONE DUCT - BELOW GROUND	—		
EXISTING DITCHES TO BE RETAINED/REPLACED	—		
		SPECIES, ECOLOGY, LANDSCAPE	
		WATER VOLES	☒
		BATS	☒
		DORMICE	☒
		OTTERS	☒
		REPTILES	☒
		GREAT CRESTED NEWT	☒
		BIRD BOX (PROPOSED)	☒
		AREA OF VEGETATION TO BE RETAINED DURING CONSTRUCTION	☒
		WOODLAND TO BE PLANTED DURING CONSTRUCTION	☒
		GRASSLAND TO BE PLANTED DURING CONSTRUCTION	☒
		HEDGE/TREES TO BE PLANTED DURING CONSTRUCTION	☒



01. ALL LEVELS AND DIMENSIONS ARE SHOWN IN METRES UNLESS NOTED OTHERWISE.
02. DO NOT SCALE FROM THIS DRAWING. ONLY FIGURED DIMENSIONS AND LEVELS TO BE USED.
03. CHANGE DATUM IS 4000.00m AT THE 120M 40CH MILE POST ON POI LINE. REGULAR CHANGE MARKERS PRESENTED ON LAY DRAWINGS ARE MEASURED ALONG THE PROPOSED RAIL CENTRE LINE.
04. THIS DRAWING IS BASED UPON TOPOGRAPHICAL SURVEY PROVIDED BY SEVERN PARTNERSHIP ON 19TH SEPTEMBER 2015.
05. CROSS SECTIONS ARE BASED ON INFORMATION FROM TOPOGRAPHY, LIDAR AND SITE VISIT MEASUREMENTS. CROSS SECTIONS TO BE VERIFIED AT DETAILED DESIGN.
06. CROSS SECTIONS ARE TAKEN FACING INCREASING CHAINAGE.



A01	15/03/19	ISSUED FOR INFORMATION	JB	RS	F
A02	03/05/19	FOR DCO PLANNING APPLICATION	JB	RS	F
A03	24/07/19	FOR DCO PLANNING APPLICATION	JB	RS	F
Rev	Date	Description of Revisions	Drawn	Chkd	Asm

Status

FIT FOR INFORMATION

Suitab S2

FIT FOR INFORMATION



Contractor(s)

ARUP 63 St Thomas Street
Bristol BS1 6JZ
Tel +44(0)117 978 5432 Fax +44(0)117 978 5433
www.arup.com

Project	METROWEST PHASE 1
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Drawing Title

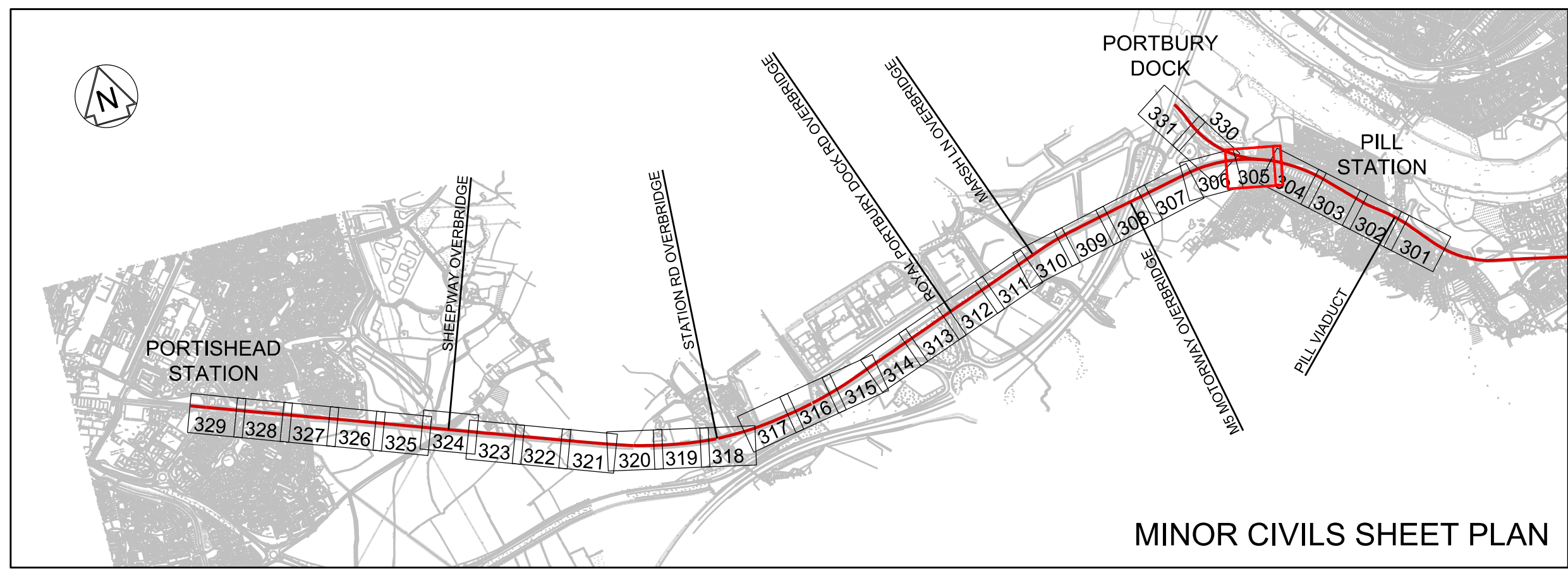
DISUSED RAILWAY ENGINEERING
PLANS
GRIP 4 MINOR CIVILS
CH.13220m TO CH.13420m

Designed	J. BACINSKI	Signed	Date	24/07
Drawn	J. BACINSKI	Signed	Date	24/07
Checked	R. SNELL	Signed	Date	24/07
Approved	R. SNELL	Signed	Date	24/07
Scale(s)	1:200	ELR & Mileage	POD 126M 19CH	

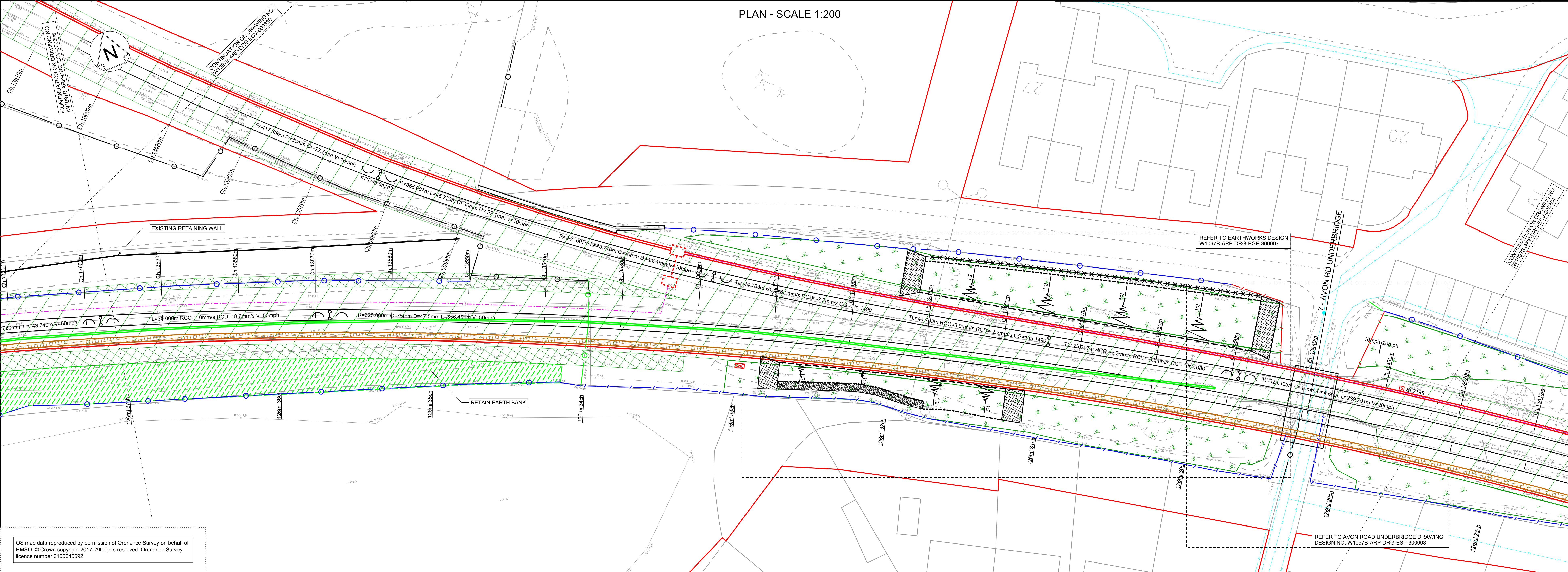
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Drawing Number	Revision
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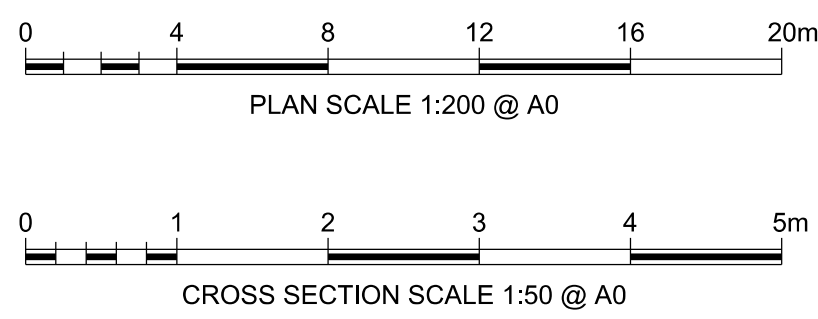
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EXISTING FENCE MODIFIED/REPLACED WITH GRADE I FENCE		HIGH VOLTAGE ELECTRICITY - BELOW GROUND		REPTILES	
EXISTING FENCE MODIFIED/REPLACED WITH GRADE II FENCE		LOW VOLTAGE ELECTRICITY - BELOW GROUND		GREAT CRESTED NEWT	
EXISTING FENCE MODIFIED/REPLACED WITH GRADE III FENCE		HIGH VOLTAGE ELECTRICITY - ABOVE GROUND		BIRD BOX (PROPOSED)	
PROPOSED FENCE GRADE I		LOW VOLTAGE ELECTRICITY - ABOVE GROUND		AREA OF VEGETATION TO BE RETAINED DURING CONSTRUCTION	
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PROPOSED TROUGHING		MEDIUM PRESSURE GAS MAIN		HEDGE/TREES TO BE PLANTED DURING CONSTRUCTION	
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EXISTING UNDER TRACK CROSSING (UTX)		VIRGIN MINE CABLE - BELOW GROUND			
REMOVED UNDER TRACK CROSSING (UTX)		VERIZON BACKBONE DUCT - BELOW GROUND			
		EXISTING DITCHES TO BE RETAINED/REPLACED			



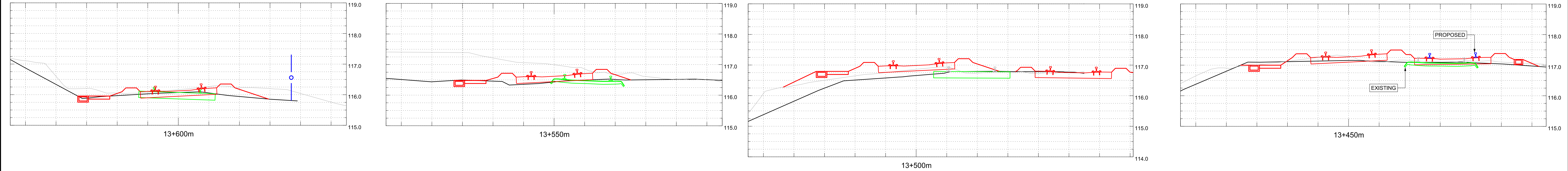
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 06. CROSS SECTIONS ARE TAKEN FACING INCREASING CHAINAGE.



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CROSS SECTIONS - SCALE 1:50



Rev	Date	Description of Revisions	JB	RS	RS
A01	15/03/19	ISSUED FOR INFORMATION	JB	RS	RS
A02	03/05/19	FOR DCO PLANNING APPLICATION	JB	RS	RS
A03	24/07/19	FOR DCO PLANNING APPLICATION	JB	RS	RS
A04	28/08/20	FOR DCO PLANNING APPLICATION	JB	RS	RS

Status: FIT FOR INFORMATION



Contractor(s)



Project: METROWEST PHASE 1

Drawing Title: DISUSED RAILWAY ENGINEERING PLANS
GRIP 4 MINOR CIVILS
CH.13410m TO CH.13610m

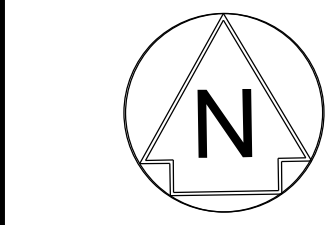
Designed	J. BACINSKI	Signed		Date	28/08/20
Drawn	J. BACINSKI	Signed		Date	28/08/20
Checked	R. SNELL	Signed		Date	28/08/20
Approved	R. SNELL	Signed		Date	28/08/20

Scale(s): 1:200
Alternative Reference: POD 126M 28CH

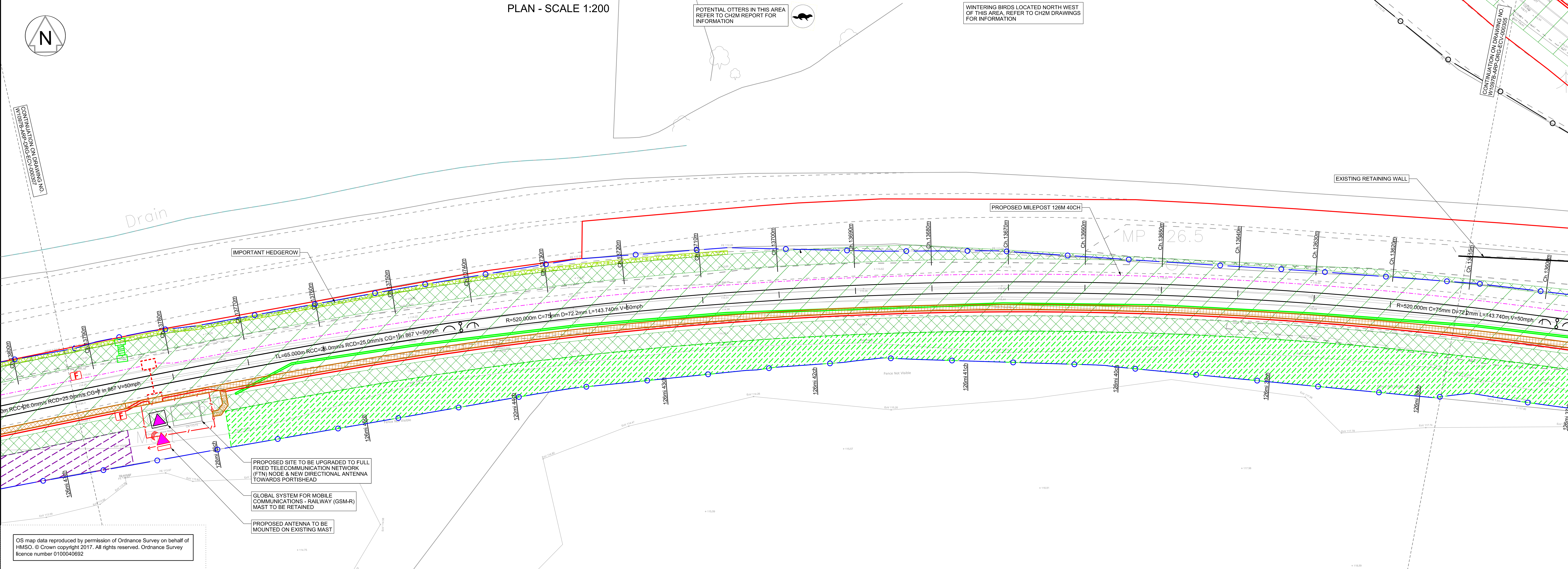
Drawing Number: W1097B-ARP-DRG-ECV-000305

Sheet: 5 of 31

LEGEND	
MINOR CIVILS	EXISTING UTILITIES
EXISTING FENCE GRADE I EXISTING FENCE GRADE II EXISTING FENCE GRADE III EXISTING FENCE REMOVED EXISTING FENCE MODIFIED/REPLACED WITH GRADE I FENCE EXISTING FENCE MODIFIED/REPLACED WITH GRADE II FENCE EXISTING FENCE MODIFIED/REPLACED WITH GRADE III FENCE PROPOSED FENCE GRADE I PROPOSED FENCE GRADE II PROPOSED FENCE GRADE III PROPOSED TROUING REMOVED TROUING EXISTING TROUING MODIFIED/REPLACED PROPOSED UNDER TRACK CROSSING (UTX) EXISTING UNDER TRACK CROSSING (NR) REMOVED UNDER TRACK CROSSING (UTX)	PROPOSED CABINET LOCATION (NOT TO SCALE) PROPOSED SIGNAL (NOT TO SCALE) EXISTING CABINET TO BE REMOVED/RELOCATED EXISTING SIGNAL TO BE REMOVED EXISTING CABINET LOCATION MINOR EARTHWORKS RETAINING STRUCTURE EARTHWORKS STRUCTURE NOISE BARRIER DEVELOPMENT CONSENT ORDER (DCO) LAND BOUNDARY CONTINUOUS POSITION OF SAFETY AUTHORISED WALKING ROUTE EXTENT OF RAIL CORRIDOR TO BE CLEAR OF VEGETATION EXTENT OF RAIL CORRIDOR TO BE CLEAR OF VEGETATION WITH NETWORK RAIL (NR) OPTION TO CLEAR IN FUTURE SHOWN CROSS HATCHED
TELECOM LEGEND	SPECIES, ECOLOGY, LANDSCAPE
WATER MAIN FOUL SEWER RISING MAIN SEWER SURFACE HIGH VOLTAGE ELECTRICITY - BELOW GROUND LOW VOLTAGE ELECTRICITY - BELOW GROUND HIGH VOLTAGE ELECTRICITY - ABOVE GROUND LOW VOLTAGE ELECTRICITY - ABOVE GROUND GRSS PIPELINE LOW PRESSURE GAS MAIN MEDIUM PRESSURE GAS MAIN HIGH PRESSURE GAS MAIN BT CABLE - BELOW GROUND BT CABLE ABOVE GROUND CABLE & WIRELESS VIRGIN MEDIA CABLE - BELOW GROUND VERIZON BACKBONE DUCT - BELOW GROUND EXISTING DITCHES TO BE RETAINED/REPLACED	INDICATIVE LOCATION OF SCRATCH BURIED PROPOSED ARMOURD FIBRE CABLE NOTE: EQUIPMENT SIZE NOT SHOWN TO SCALE TELEPHONE (PROPOSED) BOX ON POST (PROPOSED) FIBRE JOINT (PROPOSED) PROPOSED GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS - RAILWAY (GSM-R) REPEATER SITE WITH REMOTE RADIO HEAD (RRH) AND ANTENNA PROPOSED FIXED TELECOMMUNICATION NETWORK (FTN) ACCESS NODE WITH GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS - RAILWAY (GSM-R) CO-LOCATED EXISTING FIXED TELECOMMUNICATION NETWORK (FTN) ACCESS NODE WITH GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS - RAILWAY (GSM-R) CO-LOCATED
	WATER VOLES BATS DORMICE OTTERS REPTILES GREAT CRESTED NEWT BIRD BOX (PROPOSED) AREA OF VEGETATION TO BE RETAINED DURING CONSTRUCTION WOODLAND TO BE PLANTED DURING CONSTRUCTION GRASSLAND TO BE PLANTED DURING CONSTRUCTION HEDGE/TREES TO BE PLANTED DURING CONSTRUCTION

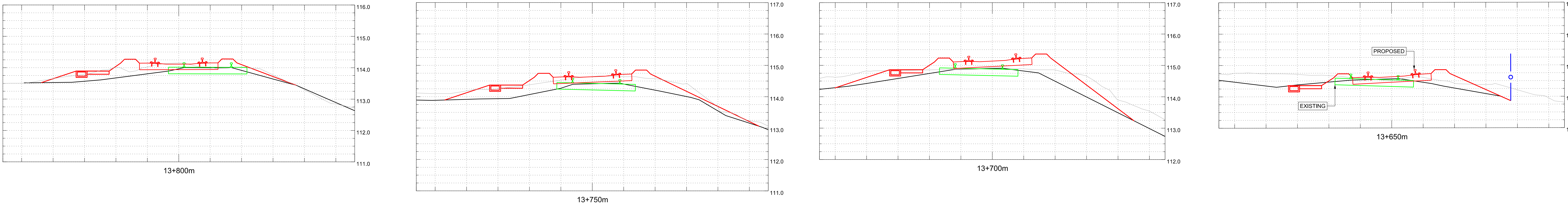


EXISTING ROADWAY (A103) ON DRAINAGE NO. 100 (N100)



- Legend/Notes
01. ALL LEVELS AND DIMENSIONS ARE SHOWN IN METRES UNLESS NOTED OTHERWISE.
 02. DO NOT SCALE FROM THIS DRAWING. ONLY FIGURED DIMENSIONS AND LEVELS TO BE USED.
 03. CHAINAGE DATUM IS 4000.000m AT THE 120M 40CH MILE POST ON POD LINE. REGULAR CHAINAGE MARKERS PRESENTED ON LAYOUT DRAWINGS ARE MEASURED ALONG THE PROPOSED RAIL CENTRE LINE.
 04. THIS DRAWING IS BASED UPON TOPOGRAPHICAL SURVEY PROVIDED BY SEVERN PARTNERSHIP ON 19TH SEPTEMBER 2015.
 05. CROSS SECTIONS ARE BASED ON INFORMATION FROM TOPOGRAPHY, LIDAR AND SITE VISIT MEASUREMENTS. CROSS SECTIONS TO BE VERIFIED AT DETAILED DESIGN.
 06. CROSS SECTIONS ARE TAKEN FACING INCREASING CHAINAGE.

CROSS SECTIONS - SCALE 1:50



A01	15/03/19	ISSUED FOR INFORMATION	JB	RS	RS
A02	03/05/19	FOR DCO PLANNING APPLICATION	JB	RS	RS
A03	24/07/19	FOR DCO PLANNING APPLICATION	JB	RS	RS
A04	28/08/20	FOR DCO PLANNING APPLICATION	JB	RS	RS
Rev	Date	Description of Revisions	Drawn	Chkd	Appr.

Status
FIT FOR INFORMATION

Submittal
S2



Contractor(s)

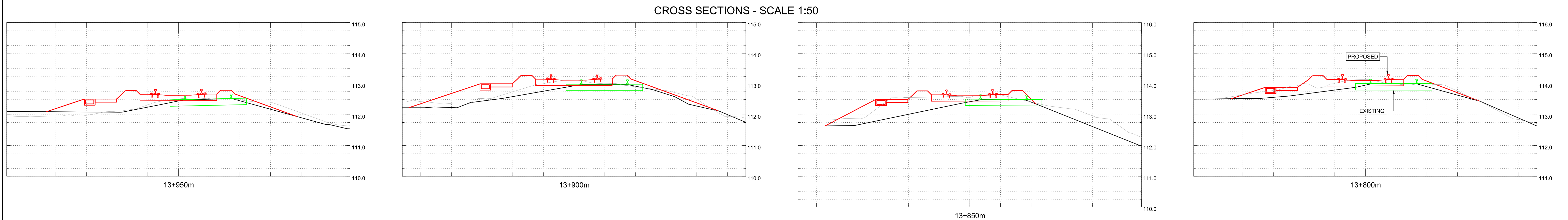
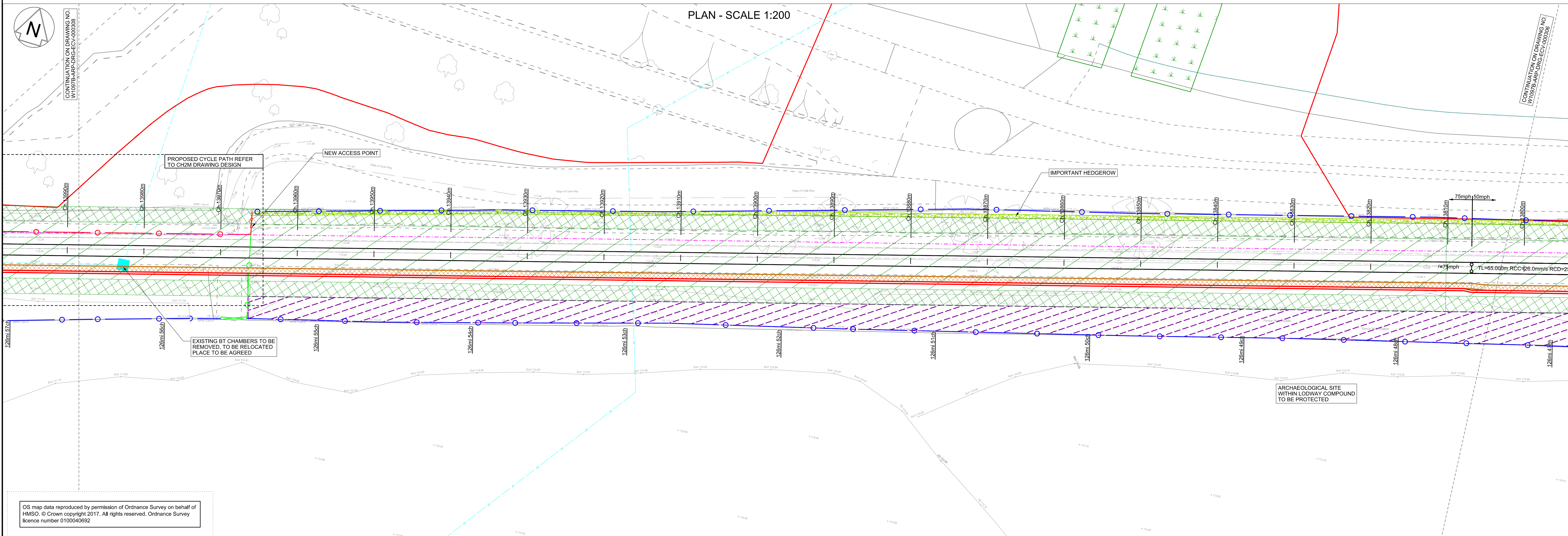
ARUP
63 St Thomas Street
Bristol BS1 4JZ
Tel +44(0)117 976 5432 Fax +44(0)117 976 5433
www.arup.com

Project
METROWEST PHASE 1

Drawing Title
DISUSED RAILWAY ENGINEERING PLANS
GRIP 4 MINOR CIVILS
CH.13600m TO CH.13800m

Designed	J. BACINSKI	Signed		Date	28/08/20
Drawn	J. BACINSKI	Signed		Date	28/08/20
Checked	R. SNELL	Signed		Date	28/08/20
Approved	R. SNELL	Signed		Date	28/08/20
Scale(s)	1:200	ELR & Mileage	POD 126M 38CH	Sheet	
Alternative Reference				6 of 31	
Drawing Number	W1097B-ARP-DRG-ECV-000306	Revision			

MINOR CIVILS		EXISTING UTILITIES		TELECOM LEGEND		SPECIES, ECOLOGY, LANDSCAPE	
EXISTING FENCE GRADE I	— / — / —	PROPOSED CABINET LOCATION (NOT TO SCALE)		WATER MAIN		WATER VOLES	
EXISTING FENCE GRADE II	— / — / —	PROPOSED SIGNAL (NOT TO SCALE)		FOUL SEWER		BATS	
EXISTING FENCE GRADE III	— / — / —	EXISTING CABINET TO BE REMOVED/RELOCATED		RISING MAIN		DORMICE	
EXISTING FENCE REMOVED	— / — / —	EXISTING SIGNAL TO BE REMOVED		SEWER SURFACE		OTTERS	
EXISTING FENCE MODIFIED/REPLACED WITH GRADE I FENCE	— / — / —	EXISTING CABINET LOCATION		LOW VOLTAGE ELECTRICITY - BELOW GROUND		REPTILES	
EXISTING FENCE MODIFIED/REPLACED WITH GRADE II FENCE	— / — / —	MINOR EARTHWORKS RETAINING STRUCTURE		LOW VOLTAGE ELECTRICITY - ABOVE GROUND		GREAT CRESTED NEWT	
EXISTING FENCE MODIFIED/REPLACED WITH GRADE III FENCE	— / — / —	EARTHWORKS STRUCTURE		GRSS PIPELINE		BIRD BOX (PROPOSED)	
PROPOSED FENCE GRADE I	— / — / —	NOISE BARRIER		LOW PRESSURE GAS MAIN		AREA OF VEGETATION TO BE RETAINED DURING CONSTRUCTION	
PROPOSED FENCE GRADE II	— / — / —	DEVELOPMENT CONSENT ORDER (DCO)		MEDIUM PRESSURE GAS MAIN		WOODLAND TO BE PLANTED DURING CONSTRUCTION	
PROPOSED FENCE GRADE III	— / — / —	LAND BOUNDARY		BT CABLE - BELOW GROUND		GRASSLAND TO BE PLANTED DURING CONSTRUCTION	
PROPOSED TROUING	— / — / —	CONTINUOUS POSITION OF SAFETY		BT CABLE ABOVE GROUND		HEDGE/TREES TO BE PLANTED DURING CONSTRUCTION	
REMOVED TROUING	— / — / —	AUTHORISED WALKING ROUTE		CABLE & WIRELESS			
EXISTING TROUING MODIFIED/REPLACED	— / — / —	EXTENT OF RAIL CORRIDOR TO BE CLEAR OF VEGETATION		VIRGIN MEDIA CABLE - BELOW GROUND			
PROPOSED UNDER TRACK CROSSING (UTX)	— / — / —	EXTENT OF RAIL CORRIDOR TO BE CLEAR OF VEGETATION WITH NETWORK RAIL (NR) OPTION TO CLEAR IN FUTURE SHOWN CROSS HATCHED		VIRGIN MEDIA CABLE - ABOVE GROUND			
EXISTING UNDER TRACK CROSSING (UTX)	— / — / —			EXISTING DITCHES TO BE RETAINED/REPLACED			
REMOVED UNDER TRACK CROSSING (UTX)	— / — / —						



Legend/Notes

01. ALL LEVELS AND DIMENSIONS ARE SHOWN IN METRES UNLESS NOTED OTHERWISE.

02. DO NOT SCALE FROM THIS DRAWING, ONLY FIGURED DIMENSIONS AND LEVELS TO BE USED.

03. CHAINAGE DATUM IS 4000.000m AT THE 120M 40CH MILE POST ON POD LINE. REGULAR CHAINAGE MARKERS PRESENTED ON LAYOUT DRAWINGS ARE MEASURED ALONG THE PROPOSED RAIL CENTRE LINE.

04. THIS DRAWING IS BASED UPON TOPOGRAPHICAL SURVEY PROVIDED BY SEVERN PARTNERSHIP ON 16TH SEPTEMBER 2015.

05. CROSS SECTIONS ARE BASED ON INFORMATION FROM TOPOGRAPHY, LIDAR AND SITE VISIT MEASUREMENTS. CROSS SECTIONS TO BE VERIFIED AT DETAILED DESIGN.

06. CROSS SECTIONS ARE TAKEN FACING INCREASING CHAINAGE.

A01	15/03/19	ISSUED FOR INFORMATION	JB	RS	RS
A02	03/05/19	FOR DCO PLANNING APPLICATION	JB	RS	RS
A03	24/07/19	FOR DCO PLANNING APPLICATION	JB	RS	RS
A04	28/08/20	FOR DCO PLANNING APPLICATION	JB	RS	RS
Rev	Date	Description of Revisions	Drawn	Chkd	Appr
Status			Suitability		
FIT FOR INFORMATION			S2		



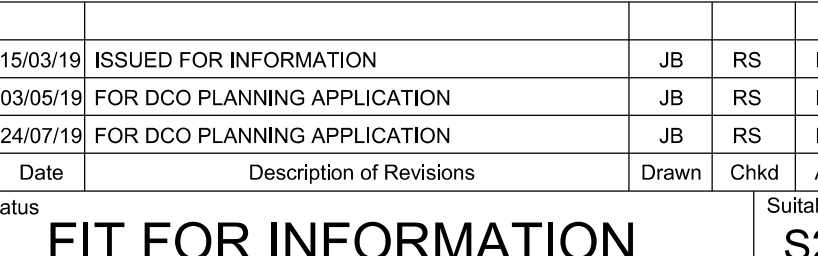
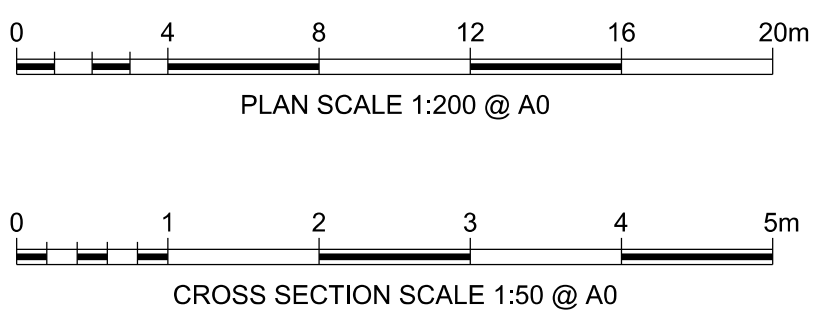
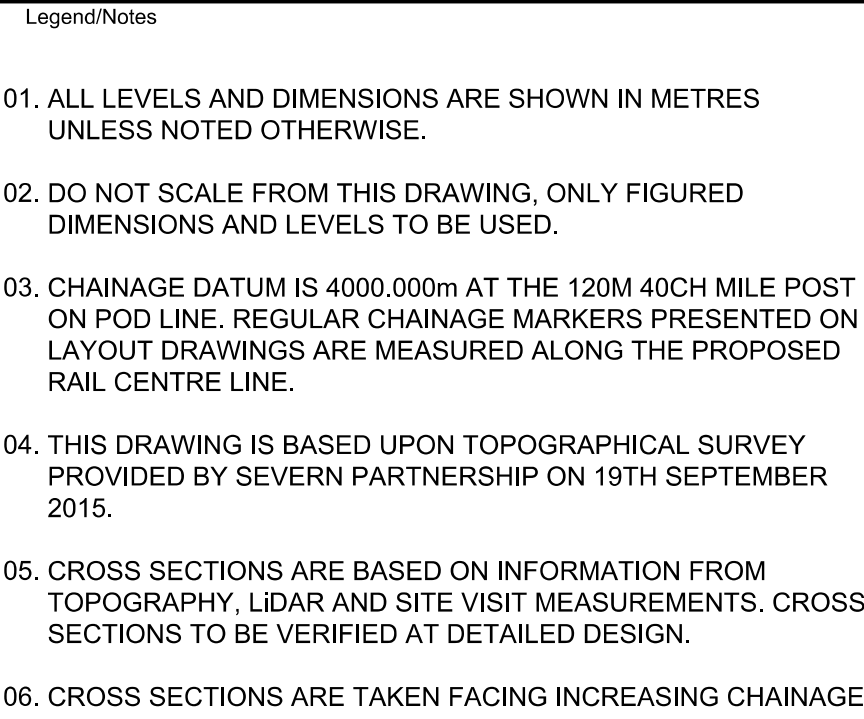
Contractor(s)	
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Project	METROWEST PHASE 1
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Drawing Title			
DISUSED RAILWAY ENGINEERING PLANS GRIP 4 MINOR CIVILS CH.13800m TO CH.13990m			
Designed	J. BACINSKI	Signed	Date 28/08/20
Drawn	J. BACINSKI	Signed	Date 28/08/20
Checked	R. SNELL	Signed	Date 28/08/20
Approved	R. SNELL	Signed	Date 28/08/20
Scale(s)		ELR & Mileage POD 126M 47CH	
1:200		Sheet	
Alternative Reference		7 of 31	
Drawing Number W1097B-ARP-DRG-FCV-000307 Revision			

LEGEND									
MINOR CIVILS			EXISTING UTILITIES		TELECOM LEGEND		SPECIES, ECOLOGY, LANDSCAPE		
EXISTING FENCE GRADE I		PROPOSED CABINET LOCATION (NOT TO SCALE)		WATER MAIN		INDICATIVE LOCATION OF SCRATCH BURIED PROPOSED ARMOURD FIBRE CABLE		WATER VOLES	
EXISTING FENCE GRADE II		PROPOSED SIGNAL (NOT TO SCALE)		FOUL SEWER		NOTE: EQUIPMENT SIZE NOT SHOWN TO SCALE		BATS	
EXISTING FENCE GRADE III		EXISTING CABINET TO BE REMOVED/RELOCATED		RIISING MAIN		TELEPHONE (PROPOSED)		DORMICE	
EXISTING FENCE REMOVED		EXISTING SIGNAL TO BE REMOVED		SEWER SURFACE		BOX ON POST (PROPOSED)		OTTERS	
EXISTING FENCE MODIFIED/REPLACED WITH GRADE I FENCE		EXISTING CABINET LOCATION		HIGH VOLTAGE ELECTRICITY - BELOW GROUND		FIBRE JOINT (PROPOSED)		REPTILES	
EXISTING FENCE MODIFIED/REPLACED WITH GRADE II FENCE		MINOR EARTHWORKS RETAINING STRUCTURE		LOW VOLTAGE ELECTRICITY - BELOW GROUND		PROPOSED GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS - RAILWAY (GSM-R) REPEATER SITE WITH REMOTE RADIO HEAD (RRH) AND ANTENNA		GREAT CRESTED NEWT	
EXISTING FENCE MODIFIED/REPLACED WITH GRADE III FENCE		EARTHWORKS STRUCTURE		HIGH VOLTAGE ELECTRICITY - ABOVE GROUND				BIRD BOX (PROPOSED)	
PROPOSED FENCE GRADE I		NOISE BARRIER		LOW VOLTAGE ELECTRICITY - ABOVE GROUND		PROPOSED FIXED TELECOMMUNICATION NETWORK (FTN) ACCESS NODE WITH GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS - RAILWAY (GSM-R) CO-LOCATED		AREA OF VEGETATION TO BE RETAINED DURING CONSTRUCTION	
PROPOSED FENCE GRADE II		DEVELOPMENT CONSENT ORDER (DCO)		GPSS PIPELINE		EXISTING FIXED TELECOMMUNICATION NETWORK (FTN) ACCESS NODE WITH GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS - RAILWAY (GSM-R) CO-LOCATED		WOODLAND TO BE PLANTED DURING CONSTRUCTION	
PROPOSED FENCE GRADE III		LAND BOUNDARY		LOW PRESSURE GAS MAIN				GRASSLAND TO BE PLANTED DURING CONSTRUCTION	
PROPOSED TROUING		CONTINUOUS POSITION OF SAFETY		MEDIUM PRESSURE GAS MAIN				HEDGE/TREES TO BE PLANTED DURING CONSTRUCTION	
EXISTING TROUING		AUTHORISED WALKING ROUTE		HIGH PRESSURE GAS MAIN					
REMOVED TROUING		EXTENT OF RAIL CORRIDOR TO BE CLEAR OF VEGETATION		BT CABLE - BELOW GROUND					
EXISTING TROUING MODIFIED/REPLACED		EXTENT OF RAIL CORRIDOR TO BE CLEAR OF VEGETATION		BT CABLE ABOVE GROUND					
PROPOSED UNDER TRACK CROSSING (UTX)		EXTENT OF RAIL CORRIDOR TO BE CLEAR OF VEGETATION WITH NETWORK RAIL (NR) OPTION TO CLEAR IN FUTURE SHOWN CROSS HATCHED		CABLE & WIRELESS					
EXISTING UNDER TRACK CROSSING (UTX)				VIRGIN MEDIA CABLE - BELOW GROUND					
REMOVED UNDER TRACK CROSSING (UTX)				VERIZON BACKBONE DUCT - BELOW GROUND					
				EXISTING DITCHES TO BE RETAINED/REPLACED					



ARUP 63 St Thomas Street
Bristol BS1 6JZ
Tel +44(0)117 978 5432 Fax +44(0)117 978 5433
www.arup.com

Project	METROWEST PHASE 1
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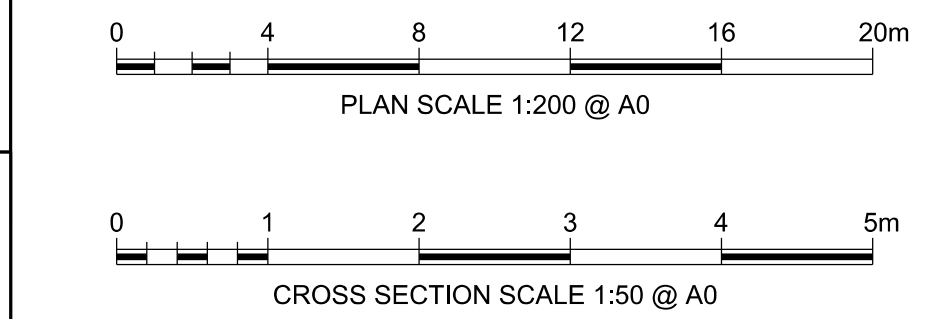
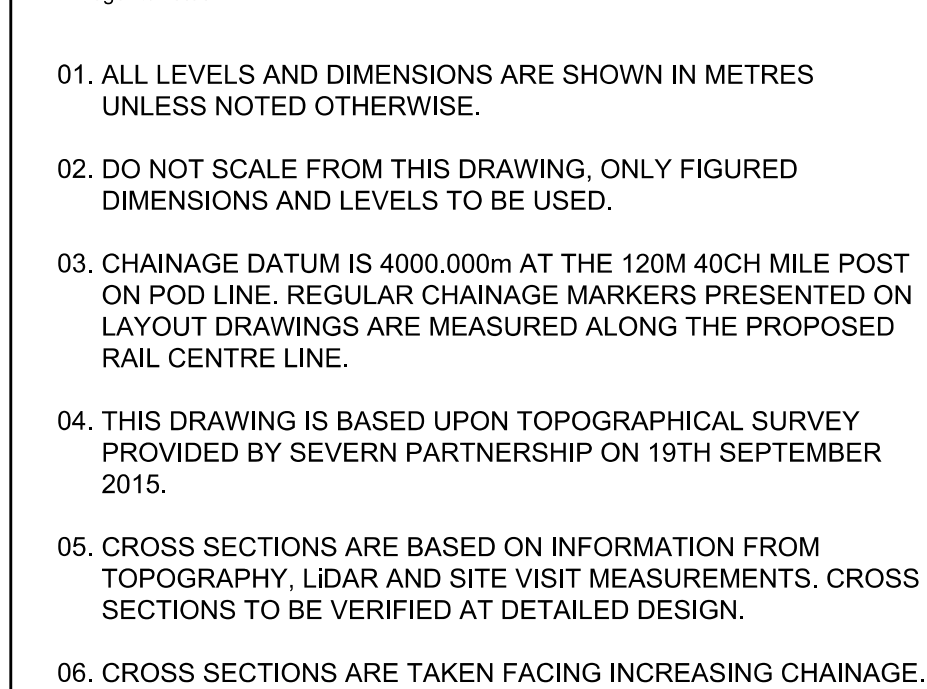
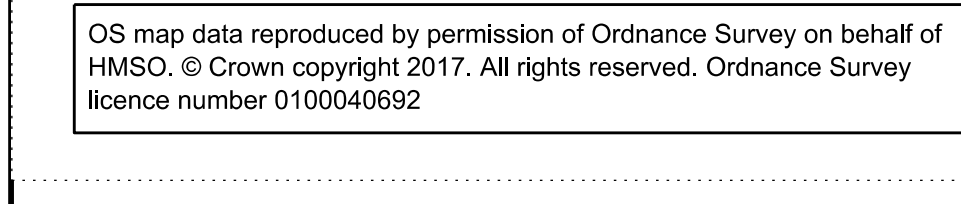
Drawing Title

**DISUSED RAILWAY ENGINEERING
PLANS
GRIP 4 MINOR CIVILS
CH.13990m TO CH.14190m**

Designed	J. BACINSKI	Signed	Date 24/0
Drawn	J. BACINSKI	Signed	Date 24/0
Checked	R. SNELL	Signed	Date 24/0
Approved	R. SNELL	Signed	Date 24/0
Scale(s)	ELR & Mileage		

1:200		POD 126M 57CH	
Alternative Reference			Sheet
			8 of 3
Drawing Number			Revision
W1097B-APP-DRG-ECV-000308			A03

LEGEND					
MINOR CIVILS		EXISTING UTILITIES	TELECOM LEGEND	SPECIES, ECOLOGY, LANDSCAPE	
EXISTING FENCE GRADE I		WATER MAIN		WATER VOLES	
EXISTING FENCE GRADE II		FOUL SEWER		BATS	
EXISTING FENCE GRADE III		RISING MAIN	INDICATIVE LOCATION OF SCRATCH BURIED PROPOSED ARMOURD FIBRE CABLE	DORMICE	
EXISTING FENCE REMOVED		SEWER SURFACE	NOTE: EQUIPMENT SIZE NOT SHOWN TO SCALE	OTTERS	
EXISTING FENCE MODIFIED/REPLACED WITH GRADE I FENCE		HIGH VOLTAGE ELECTRICITY - BELOW GROUND	TELEPHONE (PROPOSED)	REPTILES	
EXISTING FENCE MODIFIED/REPLACED WITH GRADE II FENCE		LOW VOLTAGE ELECTRICITY - BELOW GROUND	BOX ON POST (PROPOSED)	GRASS GREAT NEWT	
EXISTING FENCE MODIFIED/REPLACED WITH GRADE III FENCE		HIGH VOLTAGE ELECTRICITY - ABOVE GROUND		BIRD BOX (PROPOSED)	
PROPOSED FENCE GRADE I		LOW VOLTAGE ELECTRICITY - ABOVE GROUND		AREA OF VEGETATION TO BE RETAINED DURING CONSTRUCTION	
PROPOSED FENCE GRADE II		GPSS PIPELINE	PROPOSED GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS - RAILWAY (GSM-R) REPEATER SITE WITH REMOTE RADIO HEAD (RRH) AND ANTENNA	WOODLAND TO BE PLANTED DURING CONSTRUCTION	
PROPOSED FENCE GRADE III		LOW PRESSURE GAS MAIN		GRASSLAND TO BE PLANTED DURING CONSTRUCTION	
PROPOSED TROUHING		MEDIUM PRESSURE GAS MAIN	PROPOSED FIXED TELECOMMUNICATION NETWORK (FTN) ACCESS NODE WITH GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS - RAILWAY (GSM-R)	HEDGE/TREES TO BE PLANTED DURING CONSTRUCTION	
EXISTING TROUHING		HIGH PRESSURE GAS MAIN			
REMOVED TROUHING		BT CABLE - BELOW GROUND			
EXISTING TROUHING MODIFIED/REPLACED		BT CABLE ABOVE GROUND	EXISTING FIXED TELECOMMUNICATION NETWORK (FTN) ACCESS NODE WITH GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS - RAILWAY (GSM-R) CO-LOCATED		
PROPOSED UNDER TRACK CROSSING (UTX)		CABLE & WIRELESS			
EXISTING UNDER TRACK CROSSING (UTX)		VIRGIN MEDIA CABLE - BELOW GROUND			
REMOVED UNDER TRACK CROSSING (UTX)		VERIZON BACKBONE DUCT - BELOW GROUND			
		EXISTING DITCHES TO BE RETAINED/REPLACED			



A01	15/03/19	ISSUED FOR INFORMATION	JB	RS	R
A02	03/05/19	FOR DCO PLANNING APPLICATION	JB	RS	R
A03	24/07/19	FOR DCO PLANNING APPLICATION	JB	RS	R
Rev	Date	Description of Revisions	Drawn	Chkd	Appr
Status					Suitab
FIT FOR INFORMATION					S2

Status	FIT FOR INFORMATION	Suitab
		S2



Contractor(s)

ARUP 63 St Thomas Street
Bristol BS1 6JZ
Tel +44(0)117 976 5432 Fax +44(0)117 976 5433
www.arup.com

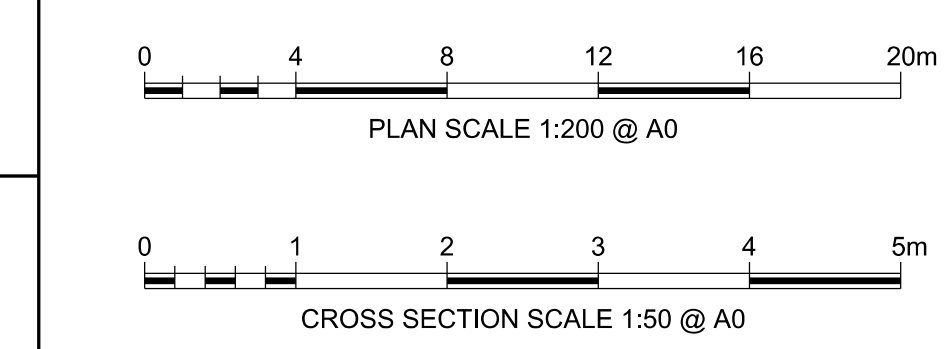
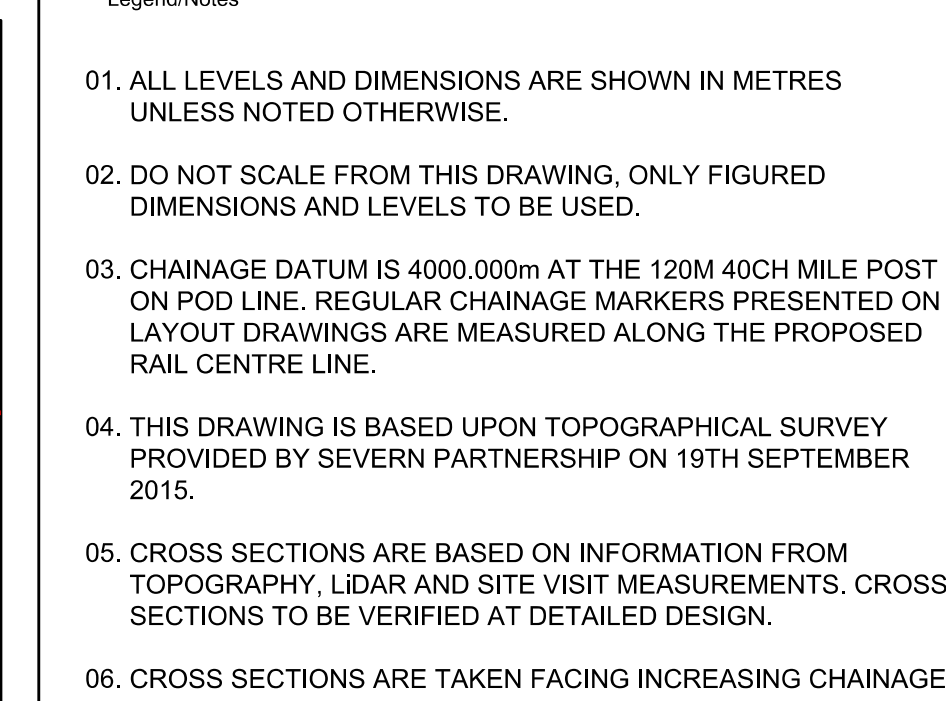
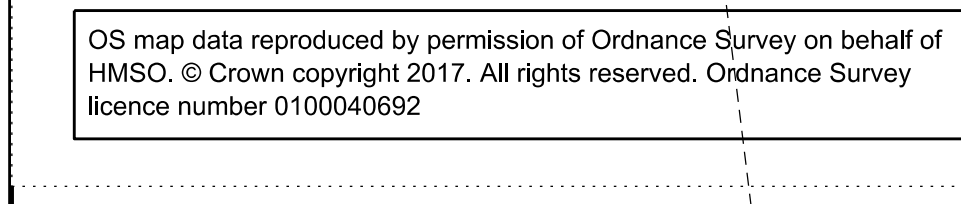
Project	METROWEST PHASE 1
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Drawing Title			
DISUSED RAILWAY ENGINEERING PLANS GRIP 4 MINOR CIVILS CH.14190m TO CH.14380m			
Designed	J. BACINSKI	Signed	Date 24/07
Drawn	J. BACINSKI	Signed	Date 24/07
Checked	R. SNELL	Signed	Date 24/07
Approved	R. SNELL	Signed	Date 24/07
Scale(s)	1:200	ELR & Mileage	POD 126M 67CH
Alternative Reference			Sheet

9 of 31

Drawing Number: W1097B-ARP-DRG-ECV-000309 A03

LEGEND															
MINOR CIVILS				EXISTING UTILITIES				TELECOM LEGEND				SPECIES, ECOLOGY, LANDSCAPE			
EXISTING FENCE GRADE I		PROPOSED CABINET LOCATION (NOT TO SCALE)		WATER MAIN		INDICATIVE LOCATION OF SCRATCH BURIED PROPOSED ARMOURIED FIBRE CABLE		WATER VOLES							
EXISTING FENCE GRADE II		PROPOSED SIGNAL (NOT TO SCALE)		FOUL SEWER				BATS							
EXISTING FENCE GRADE III		EXISTING CABINET TO BE REMOVED/RELOCATED		RIISING MAIN		NOTE: EQUIPMENT SIZE NOT SHOWN TO SCALE		DORMICE							
EXISTING FENCE REMOVED		EXISTING SIGNAL TO BE REMOVED		SEWER SURFACE		TELEPHONE (PROPOSED)		OTTERS							
EXISTING FENCE MODIFIED/REPLACED WITH GRADE I FENCE		EXISTING CABINET LOCATION		HIGH VOLTAGE ELECTRICITY - BELOW GROUND		BOX ON POST (PROPOSED)		REPTILES							
EXISTING FENCE MODIFIED/REPLACED WITH GRADE II FENCE		MINOR EARTHWORKS RETAINING STRUCTURE		LOW VOLTAGE ELECTRICITY - BELOW GROUND		FIBRE JOINT (PROPOSED)									
EXISTING FENCE MODIFIED/REPLACED WITH GRADE III FENCE		EARTHWORKS STRUCTURE		HIGH VOLTAGE ELECTRICITY - ABOVE GROUND				GREAT CRESTED NEWIT							
PROPOSED FENCE GRADE I		NOISE BARRIER		LOW VOLTAGE ELECTRICITY - ABOVE GROUND		PROPOSED GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS - RAILWAY (GSM-R) REPEATER SITE WITH REMOTE RADIO HEAD (RRH) AND ANTENNA		BIRD BOX (PROPOSED)							
PROPOSED FENCE GRADE II		DEVELOPMENT CONSENT ORDER (DCO)		GPSS PIPELINE											
PROPOSED FENCE GRADE III		LAND BOUNDARY		LOW PRESSURE GAS MAIN		PROPOSED FIXED TELECOMMUNICATION NETWORK (FTN) ACCESS NODE WITH GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS - RAILWAY (GSM-R) CO-LOCATED		AREA OF VEGETATION TO BE RETAINED DURING CONSTRUCTION							
PROPOSED TROUING		CONTINUOUS POSITION OF SAFETY		MEDIUM PRESSURE GAS MAIN				WOODLAND TO BE PLANTED DURING CONSTRUCTION							
EXISTING TROUING		AUTHORISED WALKING ROUTE		HIGH PRESSURE GAS MAIN		EXISTING FIXED TELECOMMUNICATION NETWORK (FTN) ACCESS NODE WITH GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS - RAILWAY (GSM-R) CO-LOCATED		GRASSLAND TO BE PLANTED DURING CONSTRUCTION							
REMOVED TROUING				BT CABLE - BELOW GROUND				HEDGE/TREES TO BE PLANTED DURING CONSTRUCTION							
EXISTING TROUING MODIFIED/REPLACED		EXTENT OF RAIL CORRIDOR TO BE CLEAR OF VEGETATION		BT CABLE - ABOVE GROUND											
PROPOSED UNDER TRACK CROSSING (UTX)		EXTENT OF RAIL CORRIDOR TO BE CLEAR OF VEGETATION WITH NETWORK RAIL (NR) OPTION TO CLEAR IN FUTURE SHOWN CROSS HATCHED		CABLE & WIRELESS											
EXISTING UNDER TRACK CROSSING (UTX)				VIRGIN MEDIA CABLE - BELOW GROUND											
REMOVED UNDER TRACK CROSSING (UTX)				VERIZON BACKBONE DUCT - BELOW GROUND											
				EXISTING DITCHES TO BE RETAINED/REPLACED											



A01	15/03/19	ISSUED FOR INFORMATION	JB	RS	
A02	03/05/19	FOR DCO PLANNING APPLICATION	JB	RS	
A03	24/07/19	FOR DCO PLANNING APPLICATION	JB	RS	
A04	28/08/20	FOR DCO PLANNING APPLICATION	JB	RS	
Rev	Date	Description of Revisions	Drawn	Chkd	
Status					Suitability
FIT FOR INFORMATION					S

Status	FIT FOR INFORMATION	Subst	S2
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Contractor(s)	
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ARUP 63 St Thomas Street
Bristol BS1 6JZ
Tel +44(0)117 976 5432 Fax +44(0)117 976 5433
www.arup.com

Project	METROWEST PHASE 1
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Drawing Title

**DISUSED RAILWAY ENGINEERING
PLANS
GRIP 4 MINOR CIVILS
CH.14380m TO CH.14580m**

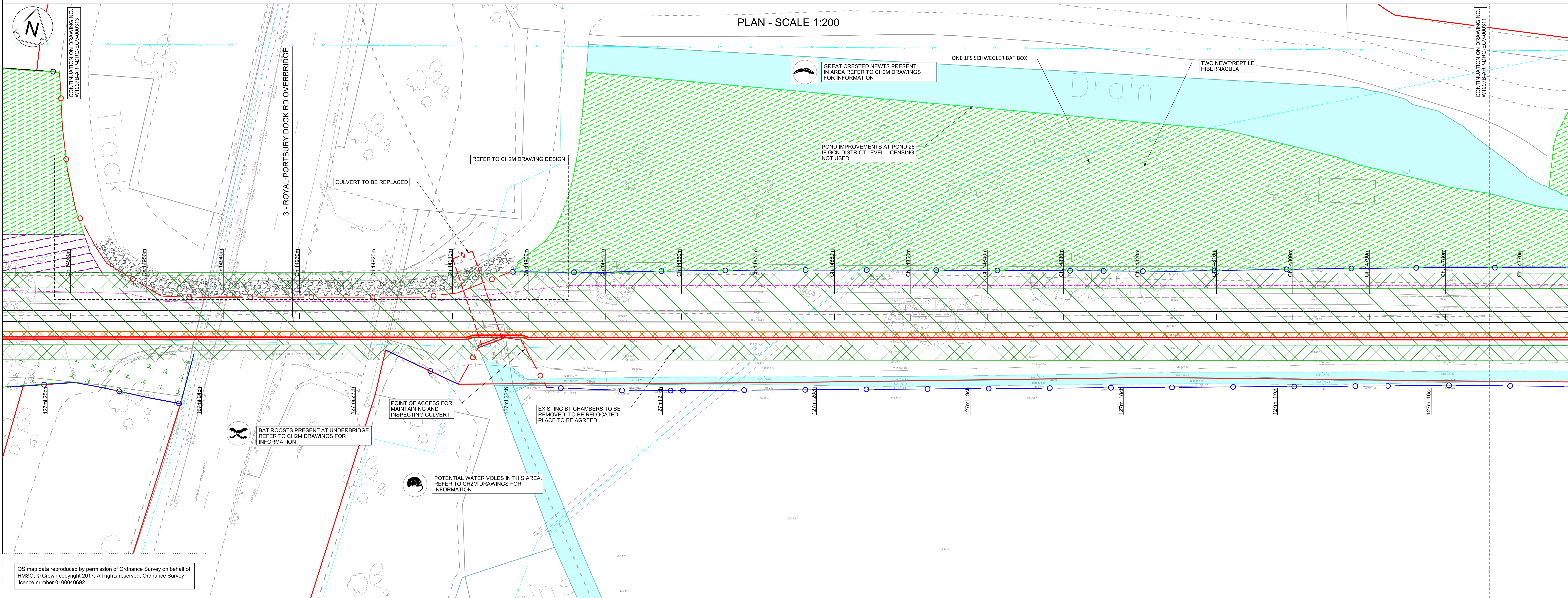
Designed	J. BACINSKI	Signed	Date 28/0/
Drawn	J. BACINSKI	Signed	Date 28/0/
Checked	R. SNELL	Signed	Date 28/0/
Approved	R. SNELL	Signed	Date 28/0/

Scale(s)	1:200	ELR & Message	POD 126M 76CH
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Alternative Reference	Sheet 10 of 31
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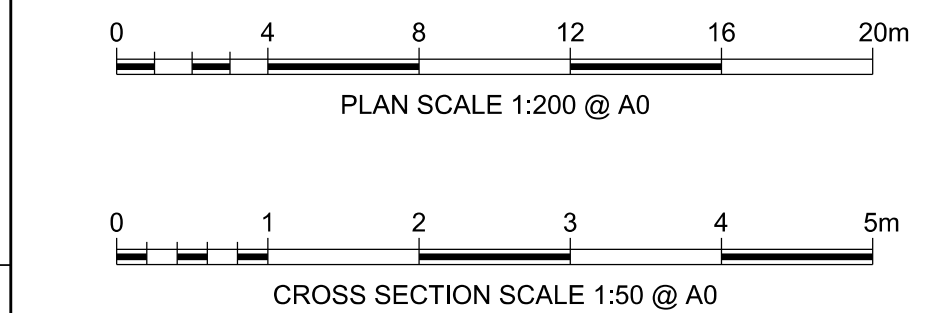
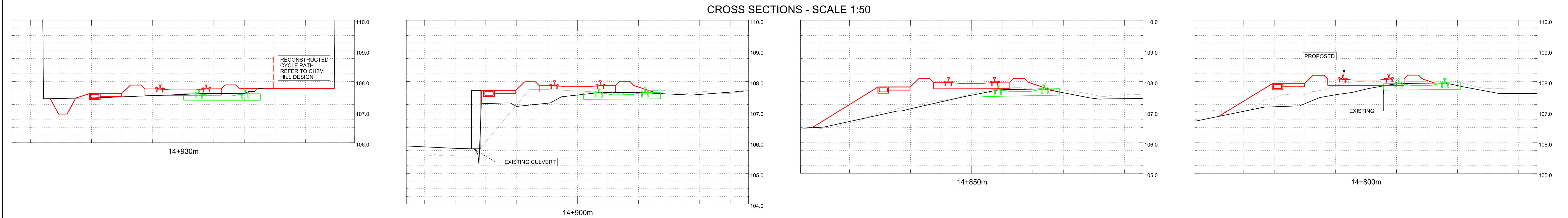
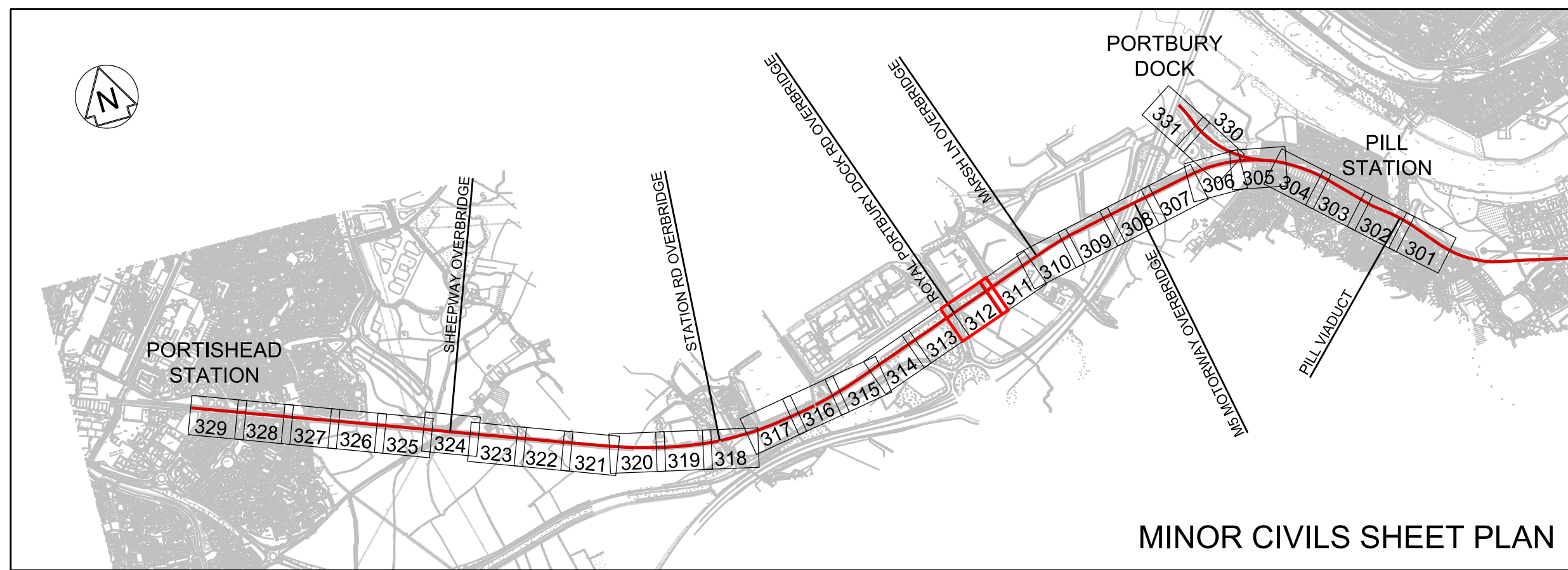
Drawing Number	Revision
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LEGEND									
MINOR CIVILS			EXISTING UTILITIES		TELECOM LEGEND		SPECIES, ECOLOGY, LANDSCAPE		
EXISTING FENCE GRADE I		PROPOSED CABINET LOCATION (NOT TO SCALE)		WATER MAIN		INDICATIVE LOCATION OF SCRATCH BURIED PROPOSED ARMOURD FIBRE CABLE		WATER VOLES	
EXISTING FENCE GRADE II		PROPOSED SIGNAL (NOT TO SCALE)		FOUL SEWER		NOTE: EQUIPMENT SIZE NOT SHOWN TO SCALE		BATS	
EXISTING FENCE GRADE III		EXISTING CABINET TO BE REMOVED/RELOCATED		RIISING MAIN		TELEPHONE (PROPOSED)		DORMICE	
EXISTING FENCE REMOVED		EXISTING SIGNAL TO BE REMOVED		SEWER SURFACE		BOX ON POST (PROPOSED)		OTTERS	
EXISTING FENCE MODIFIED/REPLACED WITH GRADE I FENCE		EXISTING CABINET LOCATION		HIGH VOLTAGE ELECTRICITY - BELOW GROUND		FIBRE JOINT (PROPOSED)		REPTILES	
EXISTING FENCE MODIFIED/REPLACED WITH GRADE II FENCE		MINOR EARTHWORKS RETAINING STRUCTURE		LOW VOLTAGE ELECTRICITY - BELOW GROUND				GREAT CRESTED NEWT	
EXISTING FENCE MODIFIED/REPLACED WITH GRADE III FENCE		EARTHWORKS STRUCTURE		HIGH VOLTAGE ELECTRICITY - ABOVE GROUND				BIRD BOX (PROPOSED)	
PROPOSED FENCE GRADE I		NOISE BARRIER		LOW VOLTAGE ELECTRICITY - ABOVE GROUND		PROPOSED GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS - RAILWAY (GSM-R) REPEATER SITE WITH REMOTE RADIO HEAD (RRH) AND ANTENNA			
PROPOSED FENCE GRADE II		DEVELOPMENT CONSENT ORDER (DCO)		GPSS PIPELINE		PROPOSED FIXED TELECOMMUNICATION NETWORK (FTN) ACCESS NODE WITH GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS - RAILWAY (GSM-R) CO-LOCATED		AREA OF VEGETATION TO BE RETAINED DURING CONSTRUCTION	
PROPOSED FENCE GRADE III		LAND BOUNDARY		LOW PRESSURE GAS MAIN				WOODLAND TO BE PLANTED DURING CONSTRUCTION	
PROPOSED TROUGHING		CONTINUOUS POSITION OF SAFETY		MEDIUM PRESSURE GAS MAIN		EXISTING FIXED TELECOMMUNICATION NETWORK (FTN) ACCESS NODE WITH GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS - RAILWAY (GSM-R) CO-LOCATED		GRASSLAND TO BE PLANTED DURING CONSTRUCTION	
EXISTING TROUGHING		AUTHORISED WALKING ROUTE		HIGH PRESSURE GAS MAIN				HEDGE/TREES TO BE PLANTED DURING CONSTRUCTION	
REMOVED TROUGHING		EXTENT OF RAIL CORRIDOR TO BE CLEAR OF VEGETATION		BT CABLE - BELOW GROUND					
EXISTING TROUGHING MODIFIED/REPLACED		EXTENT OF RAIL CORRIDOR TO BE CLEAR OF VEGETATION		BT CABLE ABOVE GROUND					
PROPOSED UNDER TRACK CROSSING (UTX)		EXTENT OF RAIL CORRIDOR TO BE CLEAR OF VEGETATION WITH NETWORK RAIL (NR) OPTION TO CLEAR IN FUTURE SHOWN CROSS HATCHED		CABLE & WIRELESS					
EXISTING UNDER TRACK CROSSING (UTX)				VIRGIN MEDIA CABLE - BELOW GROUND					
REMOVED UNDER TRACK CROSSING (UTX)				VERIZON BACKBONE DUCT - BELOW GROUND					
				EXISTING DITCHES TO BE RETAINED/REPLACED					



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- Legend/Notes
01. ALL LEVELS AND DIMENSIONS ARE SHOWN IN METRES UNLESS NOTED OTHERWISE.
 02. DO NOT SCALE FROM THIS DRAWING, ONLY FIGURED DIMENSIONS AND LEVELS TO BE USED.
 03. CHAINAGE DATUM IS 4000.000m AT THE 120M 40CH MILE POST ON POD LINE. REGULAR CHAINAGE MARKERS PRESENTED ON LAYOUT DRAWINGS ARE MEASURED ALONG THE PROPOSED RAIL CENTRE LINE.
 04. THIS DRAWING IS BASED UPON TOPOGRAPHICAL SURVEY PROVIDED BY SEVERN PARTNERSHIP ON 19TH SEPTEMBER 2015.
 05. CROSS SECTIONS ARE BASED ON INFORMATION FROM TOPOGRAPHY, LIDAR AND SITE VISIT MEASUREMENTS. CROSS SECTIONS TO BE VERIFIED AT DETAILED DESIGN.
 06. CROSS SECTIONS ARE TAKEN FACING INCREASING CHAINAGE.



A01	15/03/19	ISSUED FOR INFORMATION	JB	RS	R
A02	03/05/19	FOR DCO PLANNING APPLICATION	JB	RS	R
A03	24/07/19	FOR DCO PLANNING APPLICATION	JB	RS	R
A04	28/08/20	FOR DCO PLANNING APPLICATION	JB	RS	R
Rev	Date	Description of Revisions	Drawn	Chkd	Appr
Status		FIT FOR INFORMATION			Subtable S2



Contractor(s)

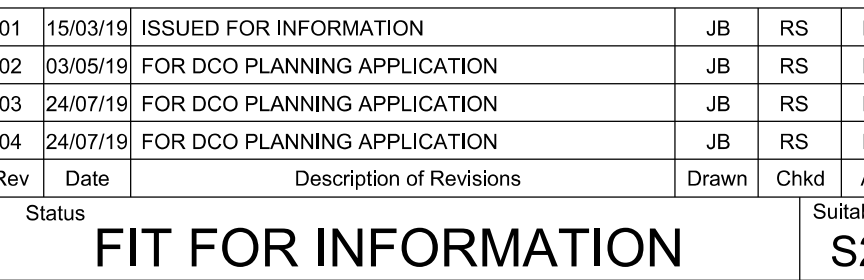
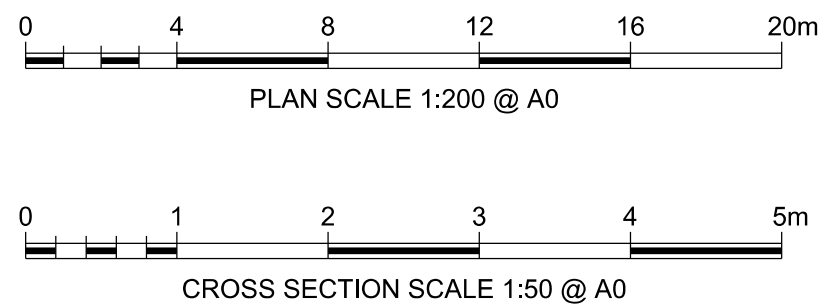
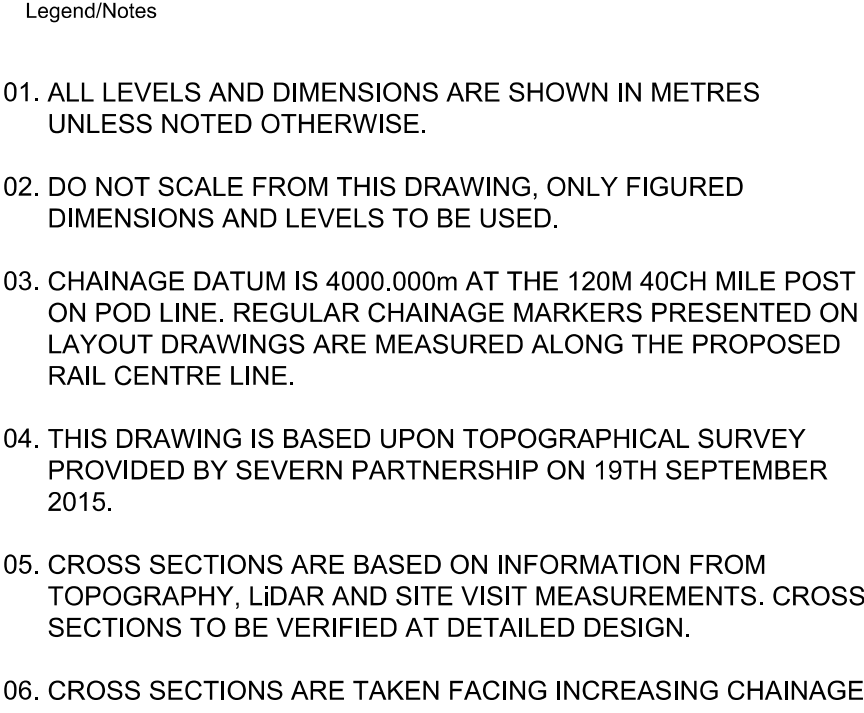
ARUP
63 St Thomas Street
Bristol BS1 4LZ
Tel +44(0)117 976 5432 Fax +44(0)117 976 5433
www.arup.com

Project
METROWEST PHASE 1

Drawing Title
**DISUSED RAILWAY ENGINEERING PLANS
GRP 4 MINOR CIVILS
CH.14770m TO CH.14960m**

Designed	J. BACINSKI	Signed		Date	28/08/20
Drawn	J. BACINSKI	Signed		Date	28/08/20
Checked	R. SNELL	Signed		Date	28/08/20
Approved	R. SNELL	Signed		Date	28/08/20
Scale(s)	1:200	ELR & Mileage	POD 127M 16CH	Sheet	
Alternative Reference				12 of 31	
Drawing Number	W1097B-ARP-DRG-ECV-000312				
	Revision				

MINOR CIVILS		LEGEND	
EXISTING UTILITIES		TELECOM LEGEND	
EXISTING FENCE GRADE I	— / — / —	INDICATIVE LOCATION OF SCRATCH BURIED PROPOSED ARMoured FIBRE CABLE	— — — — —
EXISTING FENCE GRADE II	— — — — —	NOTE: EQUIPMENT SIZE NOT SHOWN TO SCALE	
EXISTING FENCE GRADE III	— — — — —	TELEPHONE (PROPOSED)	— — — — —
EXISTING FENCE REMOVED	— — — — —	BOX ON POST (PROPOSED)	— — — — —
EXISTING FENCE MODIFIED/REPLACED WITH GRADE I FENCE	— — — — —	FIBRE JOINT (PROPOSED)	— — — — —
EXISTING FENCE MODIFIED/REPLACED WITH GRADE II FENCE	— — — — —	PROPOSED GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS - RAILWAY (GSM-R) REPEATER SITE WITH REMOTE RADIO HEAD (RRH) AND ANTENNA	— — — — —
EXISTING FENCE MODIFIED/REPLACED WITH GRADE III FENCE	— — — — —	PROPOSED FIXED TELECOMMUNICATION NETWORK (FTN) ACCESS NODE WITH GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS - RAILWAY (GSM-R) CO-LOCATED	— — — — —
PROPOSED FENCE GRADE I	— — — — —	EXISTING FIXED TELECOMMUNICATION NETWORK (FTN) ACCESS NODE WITH GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS - RAILWAY (GSM-R) CO-LOCATED	— — — — —
PROPOSED FENCE GRADE II	— — — — —		
PROPOSED FENCE GRADE III	— — — — —		
PROPOSED TROUGHING	— — — — —		
REMOVED TROUGHING	— — — — —		
EXISTING TROUGHING MODIFIED/REPLACED	— — — — —		
PROPOSED UNDER TRACK CROSSING (UTX)	— — — — —		
EXISTING UNDER TRACK CROSSING (UTX)	— — — — —		
REMOVED UNDER TRACK CROSSING (UTX)	— — — — —		
PROPOSED CABINET LOCATION (NOT TO SCALE)	— — — — —		
PROPOSED SIGNAL (NOT TO SCALE)	— — — — —		
EXISTING CABINET TO BE REMOVED/RELOCATED	— — — — —		
EXISTING SIGNAL TO BE REMOVED	— — — — —		
EXISTING CABINET LOCATION	— — — — —		
MINOR EARTHWORKS RETAINING STRUCTURE	— — — — —		
EARTHWORKS STRUCTURE	— — — — —		
NOISE BARRIER	— — — — —		
DEVELOPMENT CONSENT ORDER (DCO)	— — — — —		
LAND BOUNDARY	— — — — —		
CONTINUOUS POSITION OF SAFETY	— — — — —		
AUTHORISED WALKING ROUTE	— — — — —		
EXTENT OF RAIL CORRIDOR TO BE CLEAR OF VEGETATION	— — — — —		
EXTENT OF RAIL CORRIDOR TO BE CLEAR OF VEGETATION WITH NETWORK RAIL (NR) OPTION TO CLEAR IN FUTURE SHOWN CROSS HATCHED	— — — — —		
WATER MAIN	— — — — —		
FOUL SEWER	— — — — —		
RISING MAIN	— — — — —		
SEWER SURFACE	— — — — —		
HIGH VOLTAGE ELECTRICITY - BELOW GROUND	— — — — —		
LOW VOLTAGE ELECTRICITY - BELOW GROUND	— — — — —		
HIGH VOLTAGE ELECTRICITY - ABOVE GROUND	— — — — —		
LOW VOLTAGE ELECTRICITY - ABOVE GROUND	— — — — —		
GRSS PIPELINE	— — — — —		
LOW PRESSURE GAS MAIN	— — — — —		
MEDIUM PRESSURE GAS MAIN	— — — — —		
HIGH PRESSURE GAS MAIN	— — — — —		
BT CABLE - BELOW GROUND	— — — — —		
BT CABLE ABOVE GROUND	— — — — —		
CABLE & WIRELESS	— — — — —		
VIRGIN MEDIA CABLE - BELOW GROUND	— — — — —		
VERIZON BACKBONE DUCT - BELOW GROUND	— — — — —		
EXISTING DITCHES TO BE RETAINED/REPLACED	— — — — —		
WATER VOLES	— — — — —		
BATS	— — — — —		
DORMICE	— — — — —		
OTTERS	— — — — —		
REPTILES	— — — — —		
GREAT CRESTED NEWT	— — — — —		
BIRD BOX (PROPOSED)	— — — — —		
AREA OF VEGETATION TO BE RETAINED DURING CONSTRUCTION	— — — — —		
WOODLAND TO BE PLANTED DURING CONSTRUCTION	— — — — —		
GRASSLAND TO BE PLANTED DURING CONSTRUCTION	— — — — —		
HEDGE/TREES TO BE PLANTED DURING CONSTRUCTION	— — — — —		

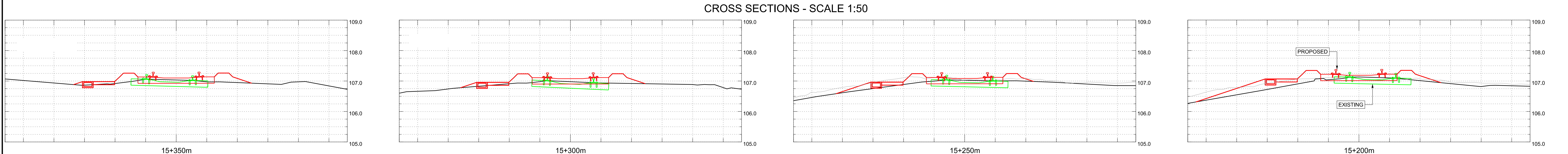
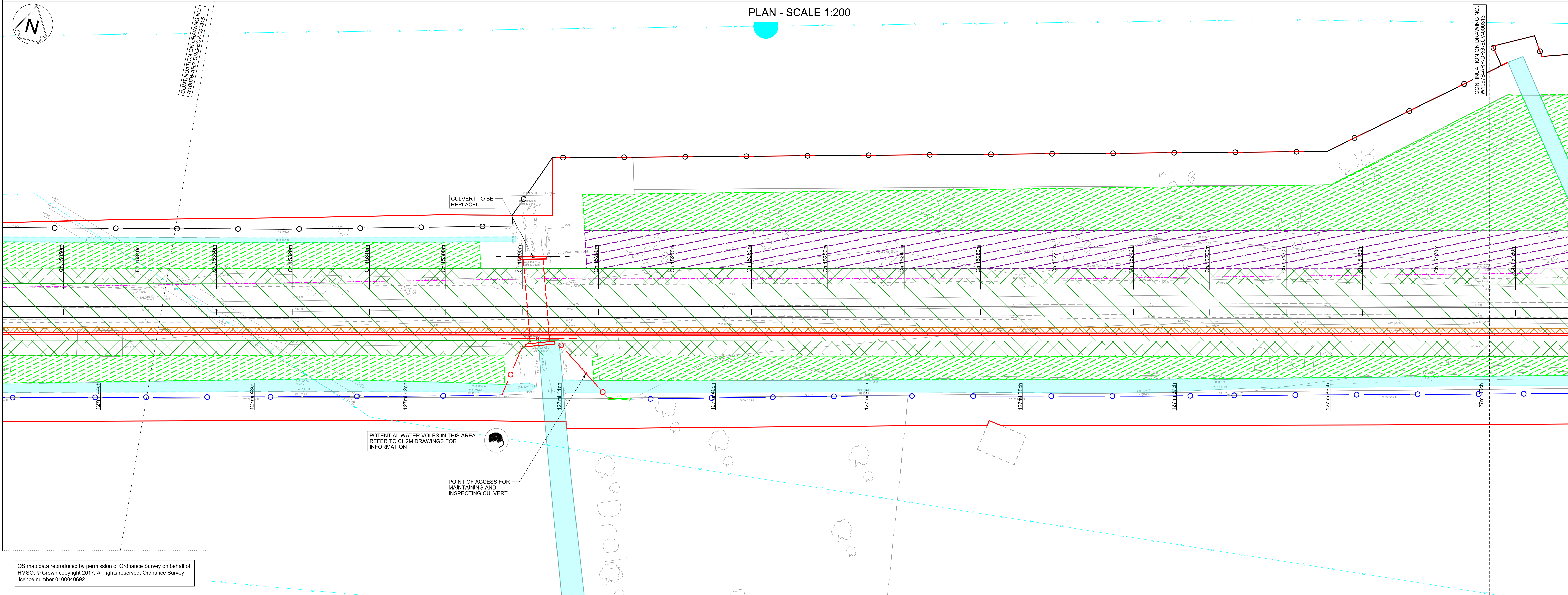


METROWEST PHASE 1

DISUSED RAILWAY ENGINEERING PLANS GRIP 4 MINOR CIVILS CH.14960m TO CH.15160m			
Designed	J. BACINSKI	Signed	Date 2/4/00
Drawn	J. BACINSKI	Signed	Date 2/4/00
Checked	R. SNELL	Signed	Date 2/4/00
Approved	R. SNELL	Signed	Date 2/4/00
Issued	ELR & Mileages POD 127M 25CH		

71097B-ARP-DRG-ECV-000313 A04

LEGEND				
MINOR CIVILS		EXISTING UTILITIES	TELECOM LEGEND	SPECIES, ECOLOGY, LANDSCAPE
EXISTING FENCE GRADE I		WATER MAIN	INDICATIVE LOCATION OF SCRATCH BURIED PROPOSED ARMoured FIBRE CABLE	WATER VOLES
EXISTING FENCE GRADE II		FOUL SEWER	NOTE: EQUIPMENT SIZE NOT SHOWN TO SCALE	BATS
EXISTING FENCE GRADE III		RISING MAIN	TELEPHONE (PROPOSED)	DORMICE
EXISTING FENCE REMOVED		SEWER SURFACE	BOX ON POST (PROPOSED)	OTTERS
EXISTING FENCE MODIFIED/REPLACED WITH GRADE I FENCE		HIGH VOLTAGE ELECTRICITY - BELOW GROUND	FIBRE JOINT (PROPOSED)	REPTILES
EXISTING FENCE MODIFIED/REPLACED WITH GRADE II FENCE		LOW VOLTAGE ELECTRICITY - BELOW GROUND	PROPOSED GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS - RAILWAY (GSM-R) REPEATER SITE WITH REMOTE RADIO HEAD (RRH) AND ANTENNA	GREAT CRESTED NEWT
EXISTING FENCE MODIFIED/REPLACED WITH GRADE III FENCE		LOW VOLTAGE ELECTRICITY - ABOVE GROUND	PROPOSED FIXED TELECOMMUNICATION NETWORK (FTN) ACCESS NODE WITH GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS - RAILWAY (GSM-R)	BIRD BOX (PROPOSED)
PROPOSED FENCE GRADE I		GPSS PIPELINE	EXISTING FIXED TELECOMMUNICATION NETWORK (FTN) ACCESS NODE WITH GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS - RAILWAY (GSM-R) CO-LOCATED	AREA OF VEGETATION TO BE RETAINED DURING CONSTRUCTION
PROPOSED FENCE GRADE II		LOW PRESSURE GAS MAIN		WOODLAND TO BE PLANTED DURING CONSTRUCTION
PROPOSED FENCE GRADE III		MEDIUM PRESSURE GAS MAIN		GRASSLAND TO BE PLANTED DURING CONSTRUCTION
PROPOSED TROUINGH		HIGH PRESSURE GAS MAIN		HEDGE/TREES TO BE PLANTED DURING CONSTRUCTION
EXISTING TROUINGH		BT CABLE - BELOW GROUND		
REMOVED TROUINGH		BT CABLE ABOVE GROUND		
EXISTING TROUINGH MODIFIED/REPLACED		CABLE & WIRELESS		
PROPOSED UNDER TRACK CROSSING (UTX)		VIRGIN MEDIA CABLE - BELOW GROUND		
EXISTING UNDER TRACK CROSSING (UTX)		VERIZON BACKBONE DUCT - BELOW GROUND		
REMOVED UNDER TRACK CROSSING (UTX)		EXISTING DITCHES TO BE RETAINED/REPLACED		
PROPOSED CABINET LOCATION (NOT TO SCALE)				
PROPOSED SIGNAL (NOT TO SCALE)				
EXISTING CABINET TO BE REMOVED/RELOCATED				
EXISTING SIGNAL TO BE REMOVED				
EXISTING CABINET LOCATION				
MINOR EARTHWORKS RETAINING STRUCTURE				
EARTHWORKS STRUCTURE				
NOISE BARRIER				
DEVELOPMENT CONSENT ORDER (DCO)				
LAND BOUNDARY				
CONTINUOUS POSITION OF SAFETY				
AUTHORISED WALKING ROUTE				
EXTENT OF RAIL CORRIDOR TO BE CLEAR OF VEGETATION				
EXTENT OF RAIL CORRIDOR TO BE CLEAR OF VEGETATION WITH NETWORK RAIL (NR) OPTION TO CLEAR IN FUTURE SHOWN CROSS HATCHED				



Contractor(s)

ARUP
61 St Thomas Street
Bristol BS1 6LZ
Tel +44(0)117 976 5432 Fax +44(0)117 976 5433
www.arup.com

LEGEND

MINOR CIVILS	EXISTING UTILITIES	TELECOM LEGEND	SPECIES, ECOLOGY, LANDSCAPE	
EXISTING FENCE GRADE I EXISTING FENCE GRADE II EXISTING FENCE GRADE III EXISTING FENCE REMOVED EXISTING FENCE MODIFIED/REPLACED WITH GRADE I FENCE EXISTING FENCE MODIFIED/REPLACED WITH GRADE II FENCE EXISTING FENCE MODIFIED/REPLACED WITH GRADE III FENCE PROPOSED FENCE GRADE I PROPOSED FENCE GRADE II PROPOSED FENCE GRADE III PROPOSED TROUING REMOVED TROUING EXISTING TROUING MODIFIED/REPLACED PROPOSED UNDER TRACK CROSSING (UTX) EXISTING UNDER TRACK CROSSING (UTX) REMOVED UNDER TRACK CROSSING (UTX)	PROPOSED CABINET LOCATION (NOT TO SCALE) PROPOSED SIGNAL (NOT TO SCALE) EXISTING CABINET TO BE REMOVED/RELOCATED EXISTING SIGNAL TO BE REMOVED EXISTING CABINET LOCATION MINOR EARTHWORKS RETAINING STRUCTURE EARTHWORKS STRUCTURE NOISE BARRIER DEVELOPMENT CONSENT ORDER (DCO) LAND BOUNDARY CONTINUOUS POSITION OF SAFETY AUTHORISED WALKING ROUTE EXTENT OF RAIL CORRIDOR TO BE CLEAR OF VEGETATION EXTENT OF RAIL CORRIDOR TO BE CLEAR OF VEGETATION WITH NETWORK RAIL (NR) OPTION TO CLEAR IN FUTURE SHOWN CROSS HATCHED	WATER MAIN FOUL SEWER RISING MAIN SEWER SURFACE HIGH VOLTAGE ELECTRICITY - BELOW GROUND LOW VOLTAGE ELECTRICITY - BELOW GROUND HIGH VOLTAGE ELECTRICITY - ABOVE GROUND LOW VOLTAGE ELECTRICITY - ABOVE GROUND GRSS PIPELINE LOW PRESSURE GAS MAIN MEDIUM PRESSURE GAS MAIN HIGH PRESSURE GAS MAIN BT CABLE - BELOW GROUND BT CABLE ABOVE GROUND CABLE & WIRELESS VIRGIN MEDIA CABLE - BELOW GROUND VERIZON BACKBONE DUCT - BELOW GROUND EXISTING DITCHES TO BE RETAINED/REPLACED	INDICATIVE LOCATION OF SCRATCH BURIED PROPOSED ARMOURD FIBRE CABLE NOTE: EQUIPMENT SIZE NOT SHOWN TO SCALE TELEPHONE (PROPOSED) BOX ON POST (PROPOSED) FIBRE JOINT (PROPOSED) PROPOSED GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS - RAILWAY (GSM-R) REPEATER SITE WITH REMOTE RADIO HEAD (RRH) AND ANTENNA PROPOSED FIXED TELECOMMUNICATION NETWORK (FTN) ACCESS NODE WITH GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS - RAILWAY (GSM-R) CO-LOCATED EXISTING FIXED TELECOMMUNICATION NETWORK (FTN) ACCESS NODE WITH GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS - RAILWAY (GSM-R) CO-LOCATED	WATER VOLES BATS DORMICE OTTERS REPTILES GREAT CRESTED NEWT BIRD BOX (PROPOSED) AREA OF VEGETATION TO BE RETAINED DURING CONSTRUCTION WOODLAND TO BE PLANTED DURING CONSTRUCTION GRASSLAND TO BE PLANTED DURING CONSTRUCTION HEDGE/TREES TO BE PLANTED DURING CONSTRUCTION

Legend/Notes

01. ALL LEVELS AND DIMENSIONS ARE SHOWN IN METRES UNLESS NOTED OTHERWISE.

02. DO NOT SCALE FROM THIS DRAWING, ONLY FIGURED DIMENSIONS AND LEVELS TO BE USED.

03. CHAINAGE DATUM IS 4000.000m AT THE 120M 40CH MILE POST ON POD LINE. REGULAR CHAINAGE MARKERS PRESENTED ON LAYOUT DRAWINGS ARE MEASURED ALONG THE PROPOSED RAIL CENTRE LINE.

04. THIS DRAWING IS BASED UPON TOPOGRAPHICAL SURVEY PROVIDED BY SEVERN PARTNERSHIP ON 19TH SEPTEMBER 2015.

05. CROSS SECTIONS ARE BASED ON INFORMATION FROM TOPOGRAPHY, LIDAR AND SITE VISIT MEASUREMENTS. CROSS SECTIONS TO BE VERIFIED AT DETAILED DESIGN.

06. CROSS SECTIONS ARE TAKEN FACING INCREASING CHAINAGE.

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PLAN SCALE 1:200 @ A0

0 1 2 3 4 5m
CROSS SECTION SCALE 1:50 @ A0

Rev	Date	Description of Revisions	Drawn	Chkd	Sub	Appr
A01	15/03/19	ISSUED FOR INFORMATION				
A02	03/05/19	FOR DCO PLANNING APPLICATION	JB	RS	RS	
A03	24/07/19	FOR DCO PLANNING APPLICATION	JB	RS	RS	
A04	28/08/20	FOR DCO PLANNING APPLICATION	JB	RS	RS	

Status: **FIT FOR INFORMATION** S2

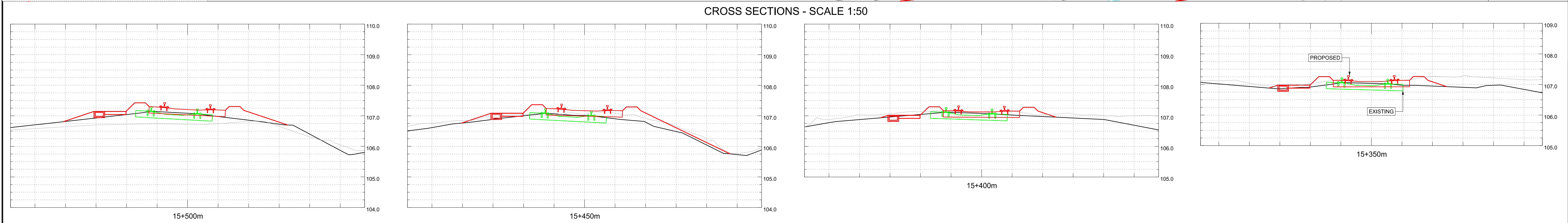
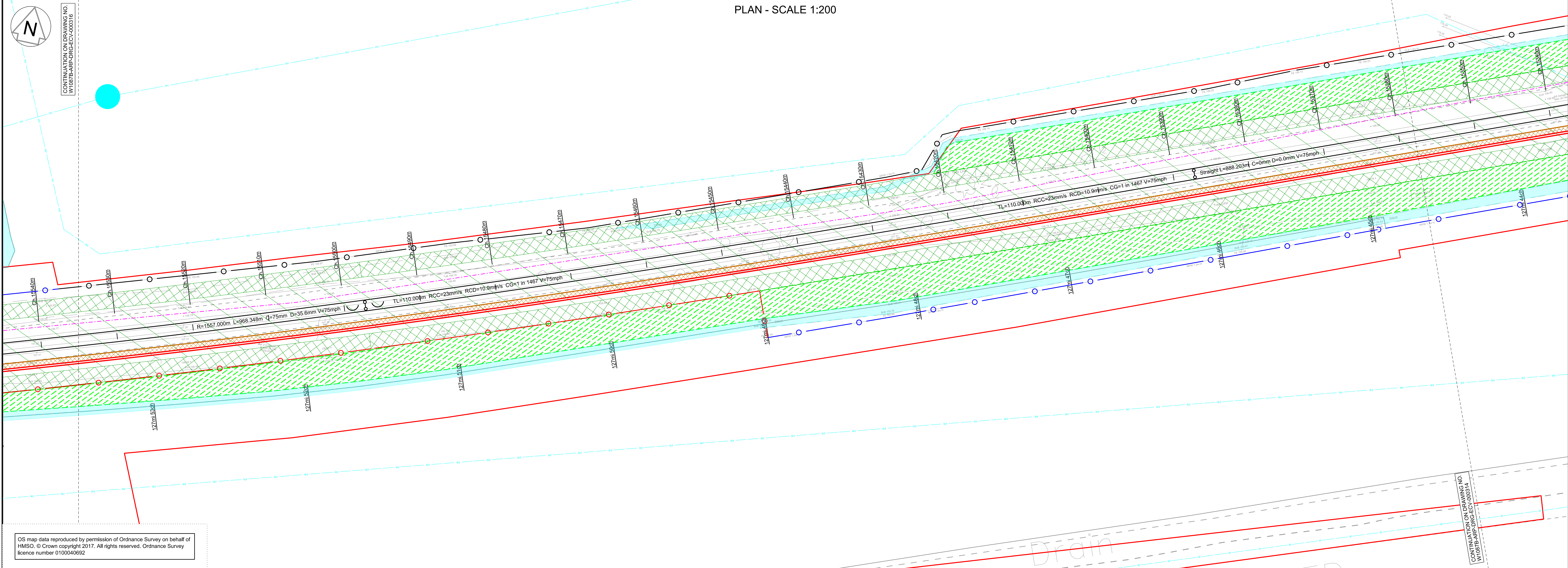
Network Rail

Project: **METROWEST PHASE 1**

Drawing Title: **DISUSED RAILWAY ENGINEERING PLANS**
GRP 4 MINOR CIVILS
CH.15160m TO CH.15350m

Designed	J. BACINSKI	Signed	Date	28/08/20
Drawn	J. BACINSKI	Signed	Date	28/08/20
Checked	R. SNELL	Signed	Date	28/08/20
Approved	R. SNELL	Signed	Date	28/08/20

Scale(s): 1:200
Alternative Reference: POD 127M 35CH
Drawing Number: W1097B-ARP-DRG-ECV-000314
Sheet: 14 of 31
Revision



LEGEND			
MINOR CIVILS	EXISTING UTILITIES	TELECOM LEGEND	SPECIES, ECOLOGY, LANDSCAPE
EXISTING FENCE GRADE I EXISTING FENCE GRADE II EXISTING FENCE GRADE III EXISTING FENCE REMOVED EXISTING FENCE MODIFIED/REPLACED WITH GRADE I FENCE EXISTING FENCE MODIFIED/REPLACED WITH GRADE II FENCE EXISTING FENCE MODIFIED/REPLACED WITH GRADE III FENCE PROPOSED FENCE GRADE I PROPOSED FENCE GRADE II PROPOSED FENCE GRADE III PROPOSED TROUING EXISTING TROUING REMOVED TROUING EXISTING TROUING MODIFIED/REPLACED PROPOSED UNDER TRACK CROSSING (UTX) EXISTING UNDER TRACK CROSSING (UTX) REMOVED UNDER TRACK CROSSING (UTX)	PROPOSED CABINET LOCATION (NOT TO SCALE) PROPOSED SIGNAL (NOT TO SCALE) EXISTING CABINET TO BE REMOVED/RELOCATED EXISTING SIGNAL TO BE REMOVED EXISTING CABINET LOCATION MINOR EARTHWORKS RETAINING STRUCTURE EARTHWORKS STRUCTURE NOISE BARRIER DEVELOPMENT CONSENT ORDER (DCO) LAND BOUNDARY CONTINUOUS POSITION OF SAFETY AUTHORISED WALKING ROUTE EXTENT OF RAIL CORRIDOR TO BE CLEAR OF VEGETATION EXTENT OF RAIL CORRIDOR TO BE CLEAR OF VEGETATION WITH NETWORK RAIL (NR) OPTION TO CLEAR IN FUTURE SHOWN CROSS HATCHED	WATER MAIN FOUL SEWER RISING MAIN SEWER SURFACE HIGH VOLTAGE ELECTRICITY - BELOW GROUND LOW VOLTAGE ELECTRICITY - BELOW GROUND HIGH VOLTAGE ELECTRICITY - ABOVE GROUND LOW VOLTAGE ELECTRICITY - ABOVE GROUND GRSS PIPELINE LOW PRESSURE GAS MAIN MEDIUM PRESSURE GAS MAIN HIGH PRESSURE GAS MAIN BT CABLE - BELOW GROUND BT CABLE ABOVE GROUND CABLE & WIRELESS VIRGIN MEDIA CABLE - BELOW GROUND VERIZON BACKBONE DUCT - BELOW GROUND EXISTING DITCHES TO BE RETAINED/REPLACED	INDICATIVE LOCATION OF SCRATCH BURIED PROPOSED ARMOURD FIBRE CABLE NOTE: EQUIPMENT SIZE NOT SHOWN TO SCALE TELEPHONE (PROPOSED) BOX ON POST (PROPOSED) FIBRE JOINT (PROPOSED) PROPOSED GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS - RAILWAY (GSM-R) REPEATER SITE WITH REMOTE RADIO HEAD (RRH) AND ANTENNA PROPOSED FIXED TELECOMMUNICATION NETWORK (FTN) ACCESS NODE WITH GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS - RAILWAY (GSM-R) CO-LOCATED EXISTING FIXED TELECOMMUNICATION NETWORK (FTN) ACCESS NODE WITH GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS - RAILWAY (GSM-R) CO-LOCATED WATER VOLES BATS DORMICE OTTERS REPTILES GREAT CRESTED NEWT BIRD BOX (PROPOSED) AREA OF VEGETATION TO BE RETAINED DURING CONSTRUCTION WOODLAND TO BE PLANTED DURING CONSTRUCTION GRASSLAND TO BE PLANTED DURING CONSTRUCTION HEDGE/TREES TO BE PLANTED DURING CONSTRUCTION

Legend/Notes

01. ALL LEVELS AND DIMENSIONS ARE SHOWN IN METRES UNLESS NOTED OTHERWISE.
02. DO NOT SCALE FROM THIS DRAWING, ONLY FIGURED DIMENSIONS AND LEVELS TO BE USED.
03. CHAINAGE DATUM IS 4000.000m AT THE 120M 40CH MILE POST ON POD LINE. REGULAR CHAINAGE MARKERS PRESENTED ON LAYOUT DRAWINGS ARE MEASURED ALONG THE PROPOSED RAIL CENTRE LINE.
04. THIS DRAWING IS BASED UPON TOPOGRAPHICAL SURVEY PROVIDED BY SEVERN PARTNERSHIP ON 19TH SEPTEMBER 2015.
05. CROSS SECTIONS ARE BASED ON INFORMATION FROM TOPOGRAPHY, LIDAR AND SITE VISIT MEASUREMENTS. CROSS SECTIONS TO BE VERIFIED AT DETAILED DESIGN.
06. CROSS SECTIONS ARE TAKEN FACING INCREASING CHAINAGE.

MINOR CIVILS SHEET PLAN

0 4 8 12 16 20m
PLAN SCALE 1:200 @ A00 1 2 3 4 5m
CROSS SECTION SCALE 1:50 @ A0

A01	15/03/19	ISSUED FOR INFORMATION	JB	RS	RS
A02	03/05/19	FOR DCO PLANNING APPLICATION	JB	RS	RS
A03	24/07/19	FOR DCO PLANNING APPLICATION	JB	RS	RS
Rev	Date	Description of Revisions	Drawn	Chkd	Appr
Status	FIT FOR INFORMATION				Subsidiary
					S2



Contractor(s)

ARUP
61 St Thomas Street
Bristol BS1 6LZ
Tel +44(0)117 976 5432 Fax +44(0)117 976 5433
www.arup.comProject
METROWEST PHASE 1Drawing Title
DISUSED RAILWAY ENGINEERING PLANS
GRIP 4 MINOR CIVILS
CH.15340m TO CH.15540m

Designed	J. BACINSKI	Signed		Date	24/07/19
Drawn	J. BACINSKI	Signed		Date	24/07/19
Checked	R. SNELL	Signed		Date	24/07/19
Approved	R. SNELL	Signed		Date	24/07/19
Scale(s)	1:200	ELR & Mileage	POD 127M 44CH	Sheet	15 of 27
Alternative Reference				Revision	

Drawing Number
W1097B-ARP-DRG-ECV-000315 A03

Sheet Size A0 841 x 1190