



MetroWest+

Portishead Branch Line (MetroWest Phase 1)

TR040011

Applicant: North Somerset District Council

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

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

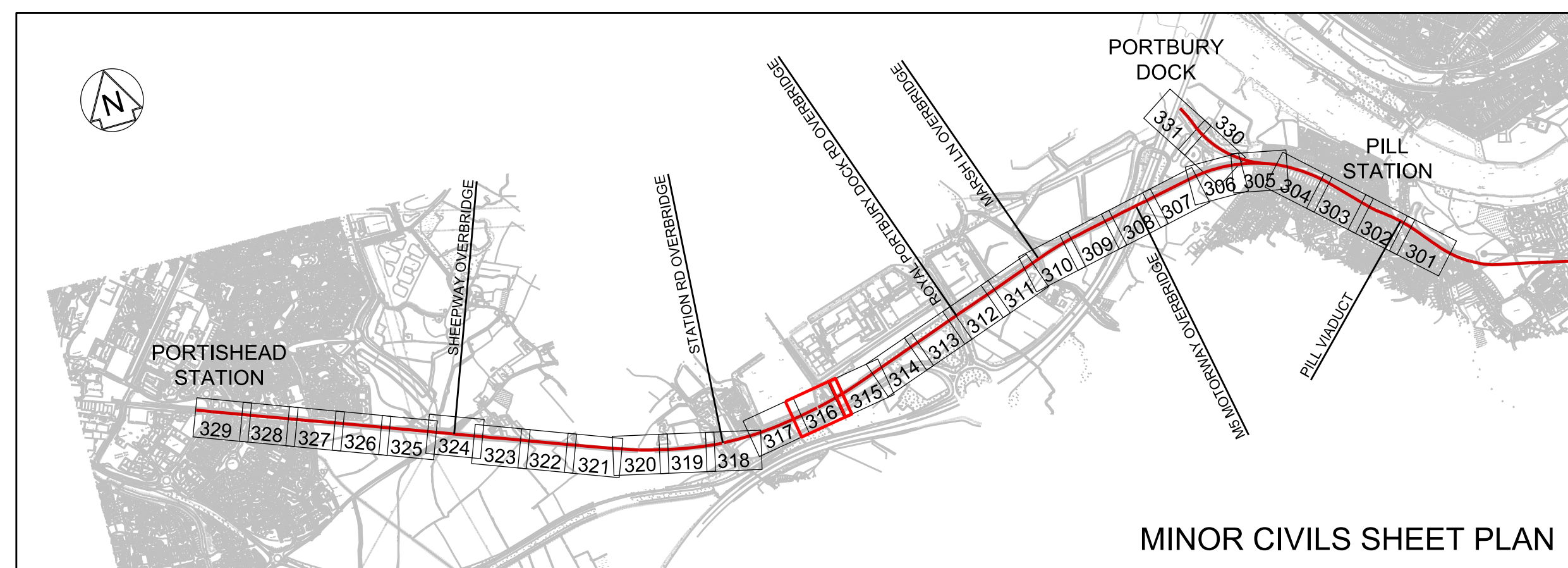
Author: Arup

Date: November 2019

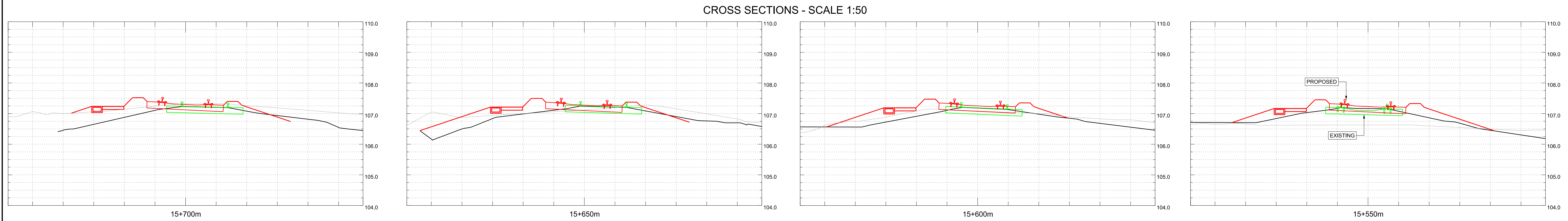
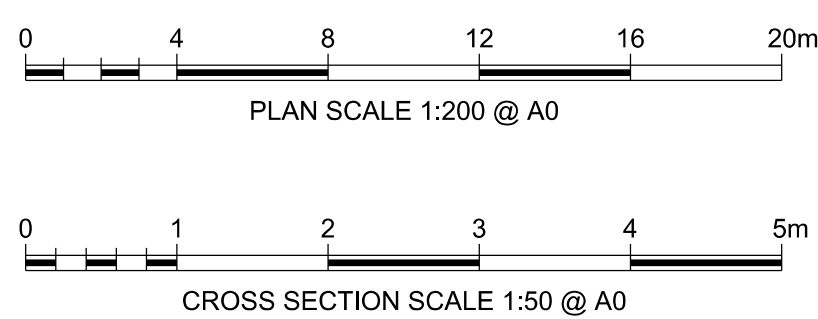
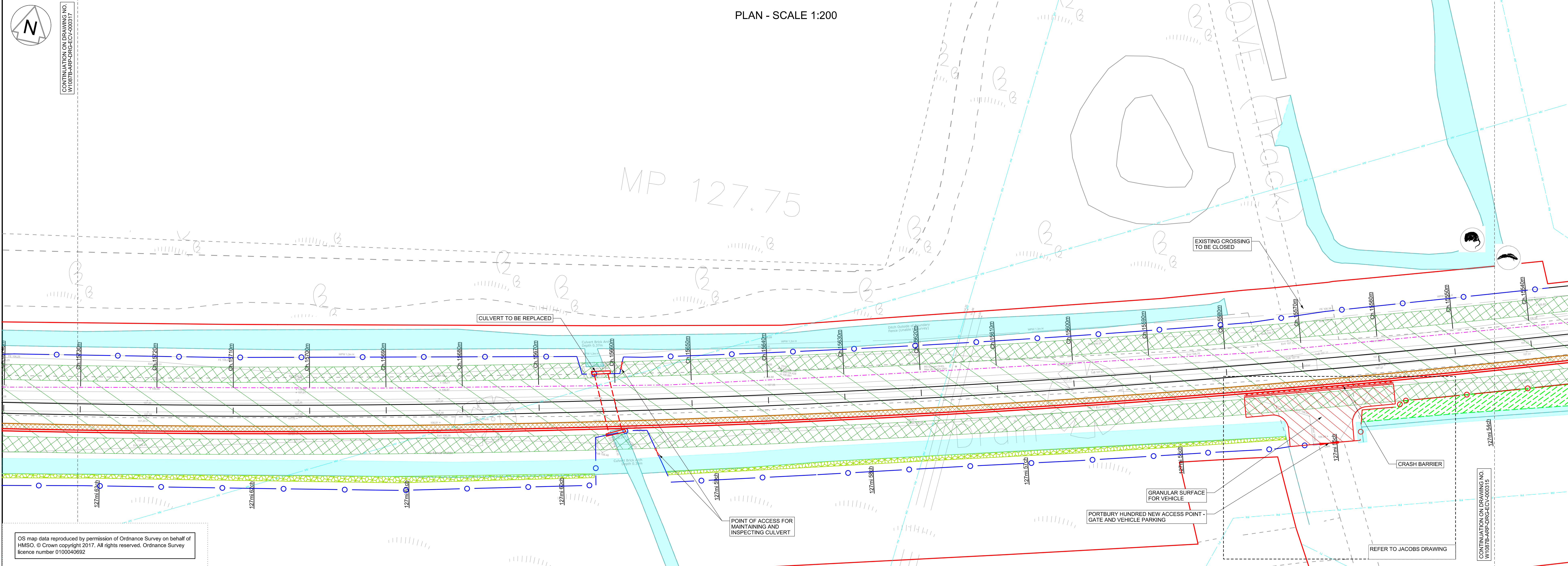


Document Index

2.7	Disused railway engineering plans / GRIP 4 Minor Civils – Sheets 16 to 31	The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009, regulation 5(2)(o)	W1097B-ARP-DRG-ECV-000316-31 Rev A03
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- Legend/Notes
- ALL LEVELS AND DIMENSIONS ARE SHOWN IN METRES UNLESS NOTED OTHERWISE.
 - DO NOT SCALE FROM THIS DRAWING. ONLY FIGURED DIMENSIONS AND LEVELS TO BE USED.
 - CHAINAGE DATUM IS 4000.000m AT THE 120M 400 MILE POST ON POD LINE. REGULAR CHAINAGE MARKERS PRESENTED ON LAYOUT DRAWINGS ARE MEASURED ALONG THE PROPOSED RAIL CENTRE LINE.
 - THIS DRAWING IS BASED UPON TOPOGRAPHICAL SURVEY PROVIDED BY SEVERN PARTNERSHIP ON 10TH SEPTEMBER 2015.
 - CROSS SECTIONS ARE BASED ON INFORMATION FROM TOPOGRAPHY, LIDAR AND SITE VISIT MEASUREMENTS. CROSS SECTIONS TO BE VERIFIED AT DETAILED DESIGN.
 - 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			JR	RS	R
A03	24/07/19	FOR DCO PLANNING APPLICATION			JB	RS	R
Rev	Date	Description of Revisions			Drawn	Chkd	Appr'd
Status:							Suitable for Issue



Contractor(s)

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Bristol BS1 6JZ
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www.arup.com

Project	METROWEST PHASE 1
---------	-------------------

Drawing Title

**DISUSED RAILWAY ENGINEERING
PLANS
GRIP 4 MINOR CIVILS
CH.15540m TO CH.15730m**

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

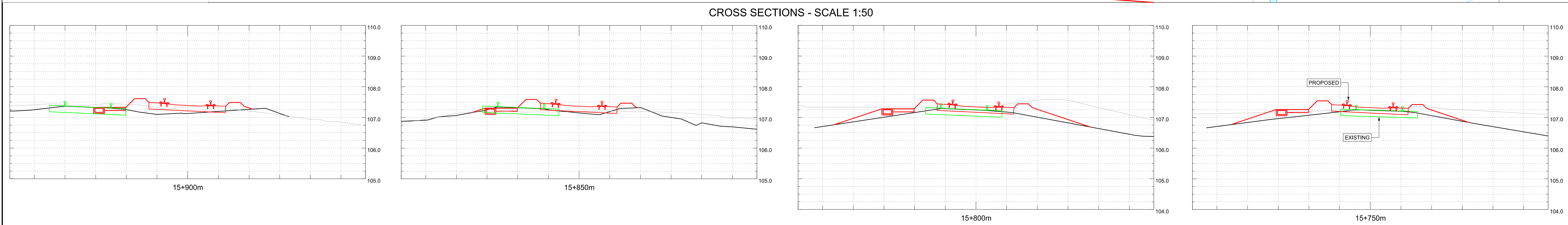
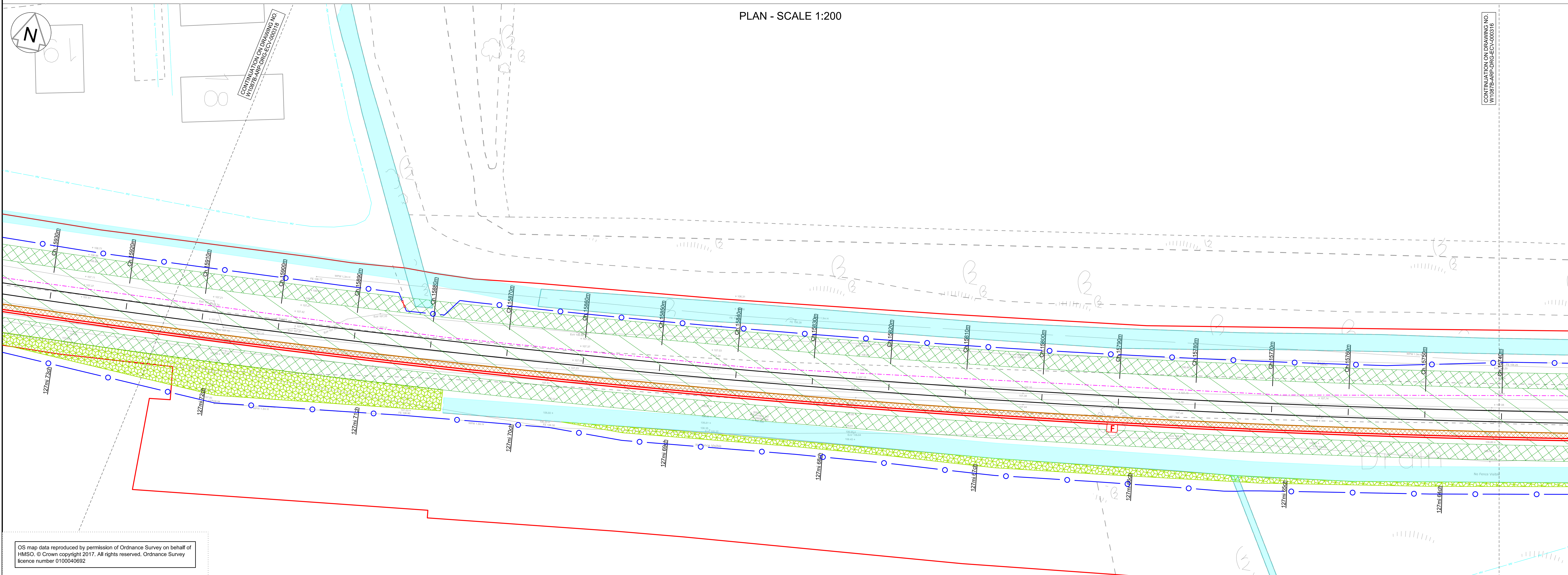
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Alternative Reference Sheet 16 of 3

Drawing Number	Revis
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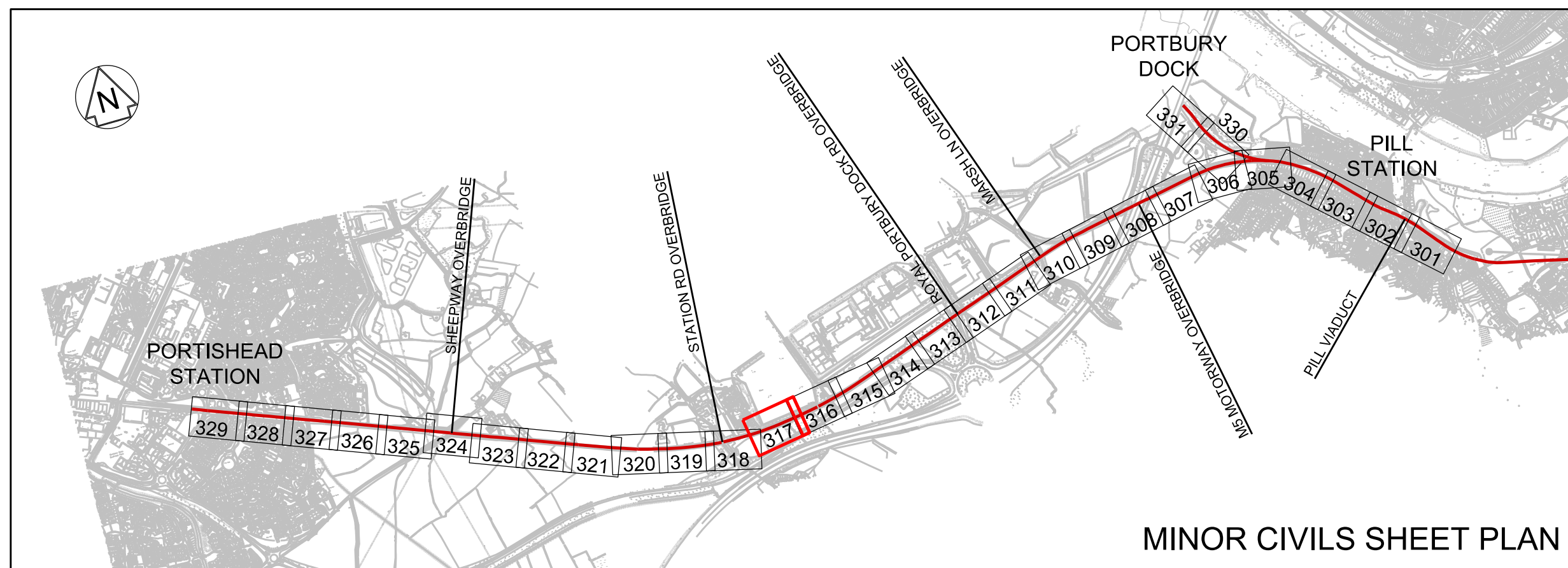
16	A03
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LEGEND					
MINOR CIVILS		EXISTING UTILITIES	TELECOM LEGEND	SPECIES, ECOLOGY, LANDSCAPE	
EXISTING FENCE GRADE I		WATER MAIN		WATER VOLES	
EXISTING FENCE GRADE II		FOUL SEWER		BATS	
EXISTING FENCE GRADE III		RISING MAIN		DORMICE	
EXISTING FENCE REMOVED		SEWER SURFACE		OTTERS	
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		LOW VOLTAGE ELECTRICITY - ABOVE GROUND		BIRD BOX (PROPOSED)	
PROPOSED FENCE GRADE I		GPSS PIPELINE		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 TROUGHING		BT CABLE - BELOW GROUND		HEDGE/TREES TO BE PLANTED DURING CONSTRUCTION	
EXISTING TROUGHING		BT CABLE - ABOVE GROUND			
REMOVED TROUGHING		CABLE & WIRELESS			
EXISTING TROUGHING MODIFIED/REPLACED		VIRGIN MEDIA CABLE - BELOW GROUND			
PROPOSED UNDER TRACK CROSSING (UTX)		VERIZON BACKBONE DUCT - BELOW GROUND			
EXISTING UNDER TRACK CROSSING (UTX)		EXISTING DITCHES TO BE RETAINED/REPLACED			
REMOVED UNDER TRACK CROSSING (UTX)					

[illegible]

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 4000.00m AT THE 120M 40CH MILE POST
ON POG 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.

[illegible]

Contractor(s)

ARUP 63 St Thomas Street
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Tel +44(0)117 978 5432 Fax +44(0)117 978 5433

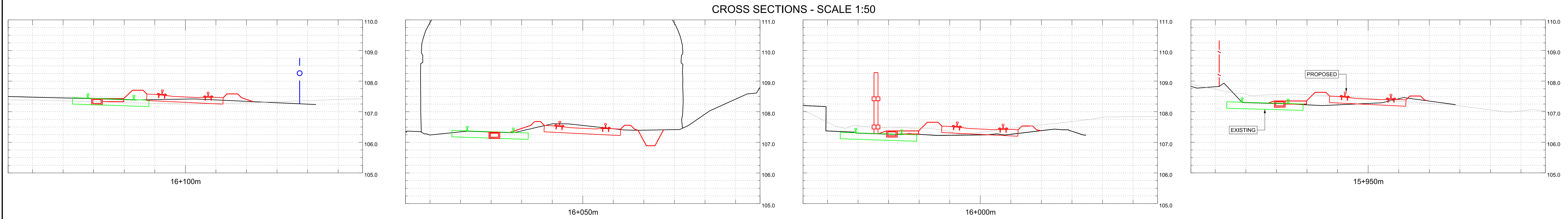
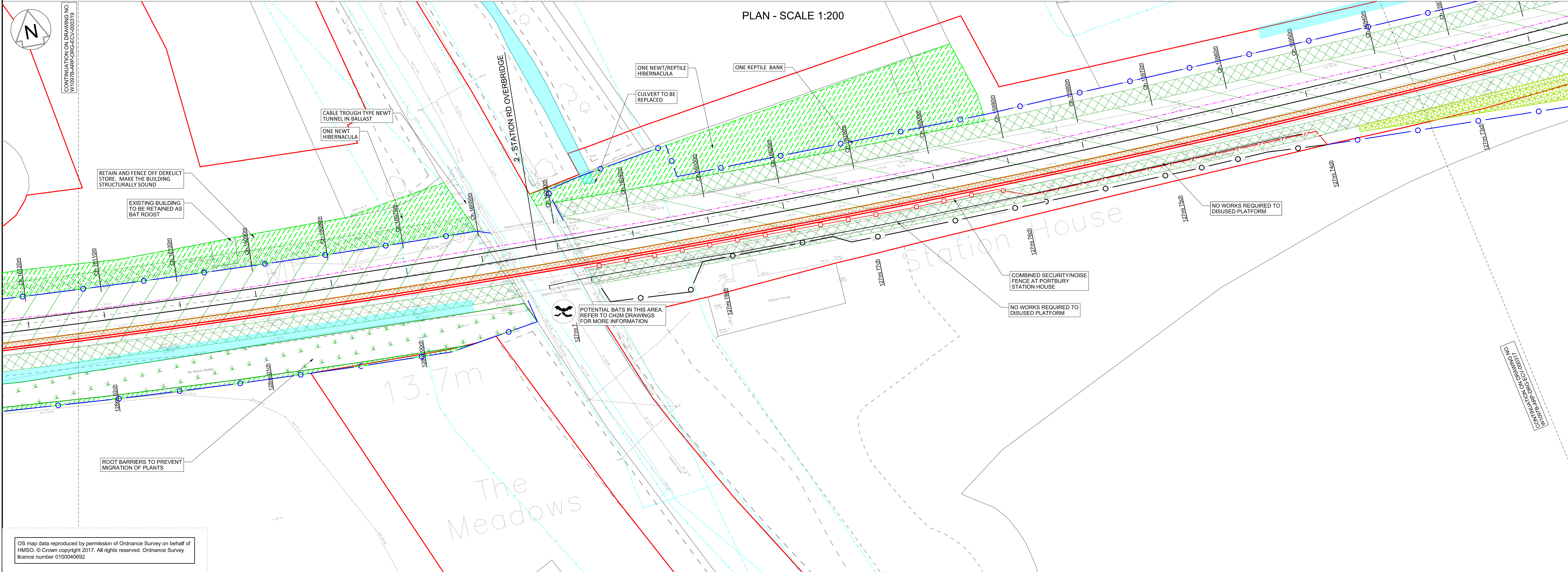
Project	METROWEST PHASE 1
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Drawing Title

DISUSED RAILWAY ENGINEERING
PLANS
GRIP 4 MINOR CIVILS
CH.15740m TO CH.15930m

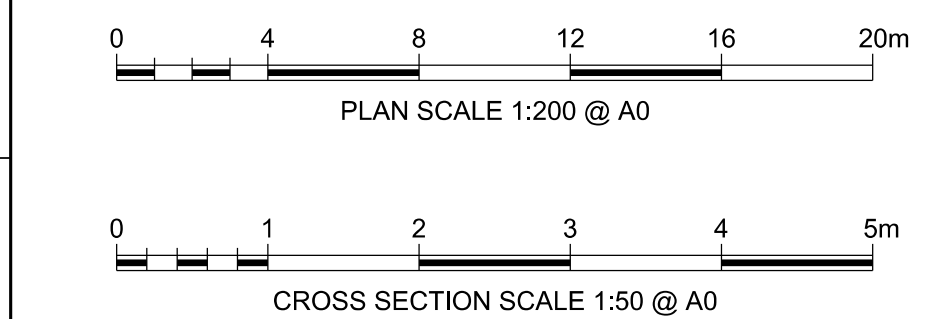
Designed	J. BACINSKI	Signed	Date 24/07
Drawn	J. BACINSKI	Signed	Date 24/07
Checked	R. SNELL	Signed	Date 24/07
Approved	R. SNELL	Signed	Date

Scale(s)	1:200	ELR & Mileage	POD 127M 64CH
Alternative Reference			Sheet 17 of 31



- Legend/Notes
01. ALL LEVELS AND DIMENSIONS ARE SHOWN IN METRES UNLESS NOTED OTHERWISE.
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MINOR CIVILS SHEET PLAN



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					Submittal
FIT FOR INFORMATION					S2



Contractor(s)

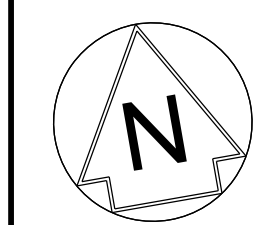


Project
METROWEST PHASE 1

Drawing Title
DISUSED RAILWAY ENGINEERING PLANS
GRIP 4 MINOR CIVILS
CH.15920m TO CH.16120m

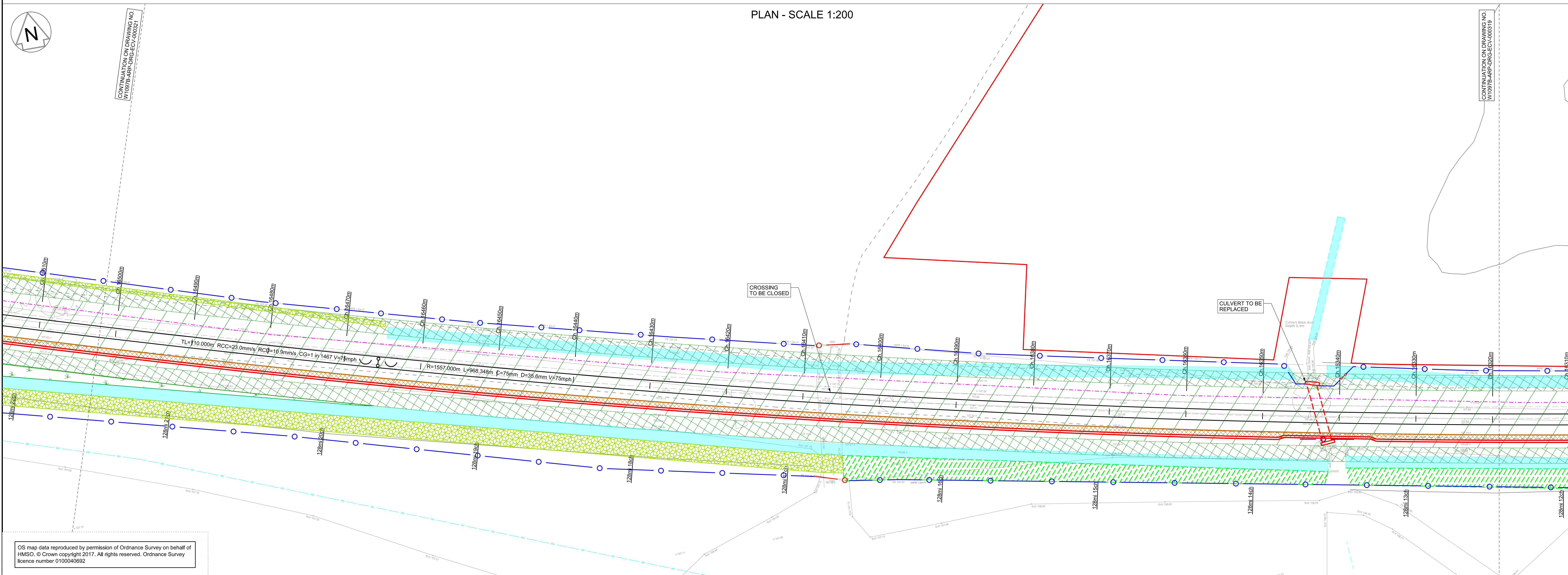
Designed	J. BACINSKI	Signed		Date	24/07/19
Drawn	J. BACINSKI	Signed		Date	24/07/19
Checked	R. SNELL	Signed		Date	24/07/19
Approved	R. SNELL	Signed		Date	24/07/19
Scale(s)	1:200	ELR & Mileage	POD 127M 73CH	Sheet	
Alternative Reference				18 of 31	
Drawing Number	W1097B-ARP-DRG-ECV-000318			Revision	

MINOR CIVILS		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	— / — / —	DORMICE	— / — / —
EXISTING FENCE REMOVED	— / — / —	SEWER SURFACE	— / — / —	OTTERS	— / — / —
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	— / — / —	LOW VOLTAGE ELECTRICITY - ABOVE GROUND	— / — / —	BIRD BOX (PROPOSED)	— / — / —
PROPOSED FENCE GRADE I	— / — / —	GRSS PIPELINE	— / — / —	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 TROUGHING	— / — / —	BT CABLE - BELOW GROUND	— / — / —	HEDGE/TREES TO BE PLANTED DURING CONSTRUCTION	— / — / —
REMOVED TROUGHING	— / — / —	BT CABLE ABOVE GROUND	— / — / —		
EXISTING TROUGHING 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 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	— / — / —				



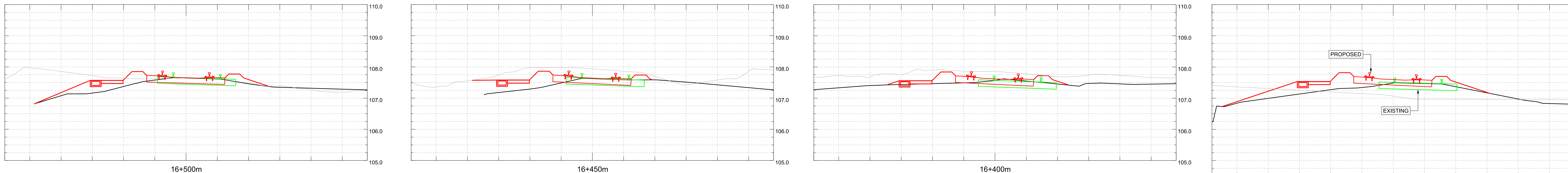
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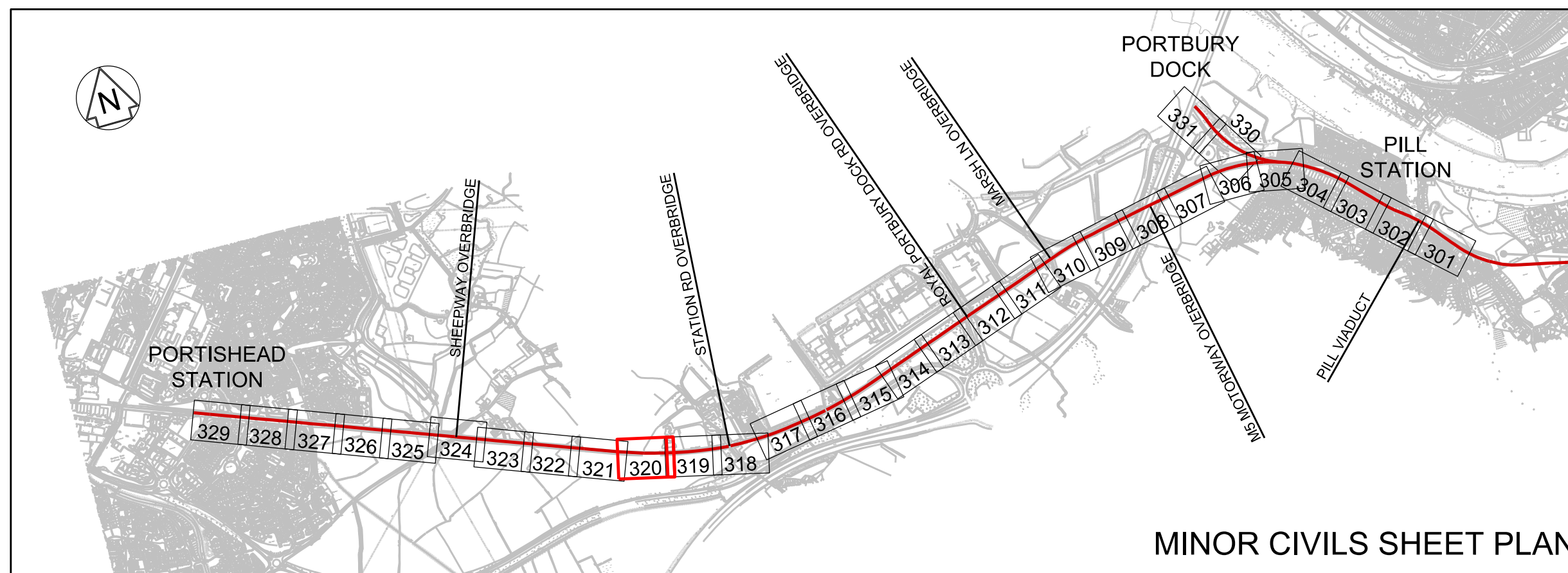


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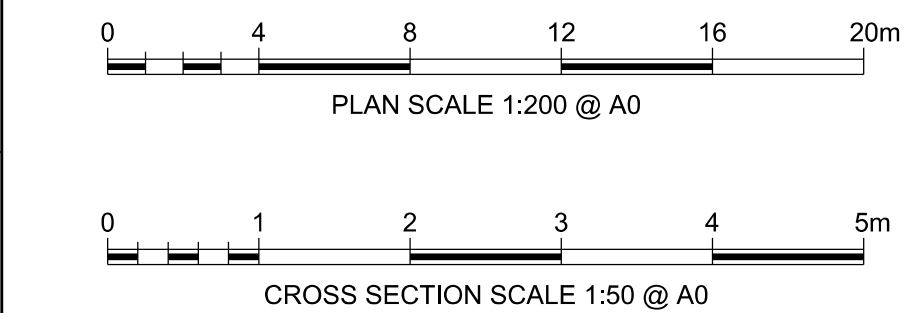
CROSS SECTIONS - SCALE 1:50



- Legend/Notes
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MINOR CIVILS SHEET PLAN



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				S2



Contractor(s)

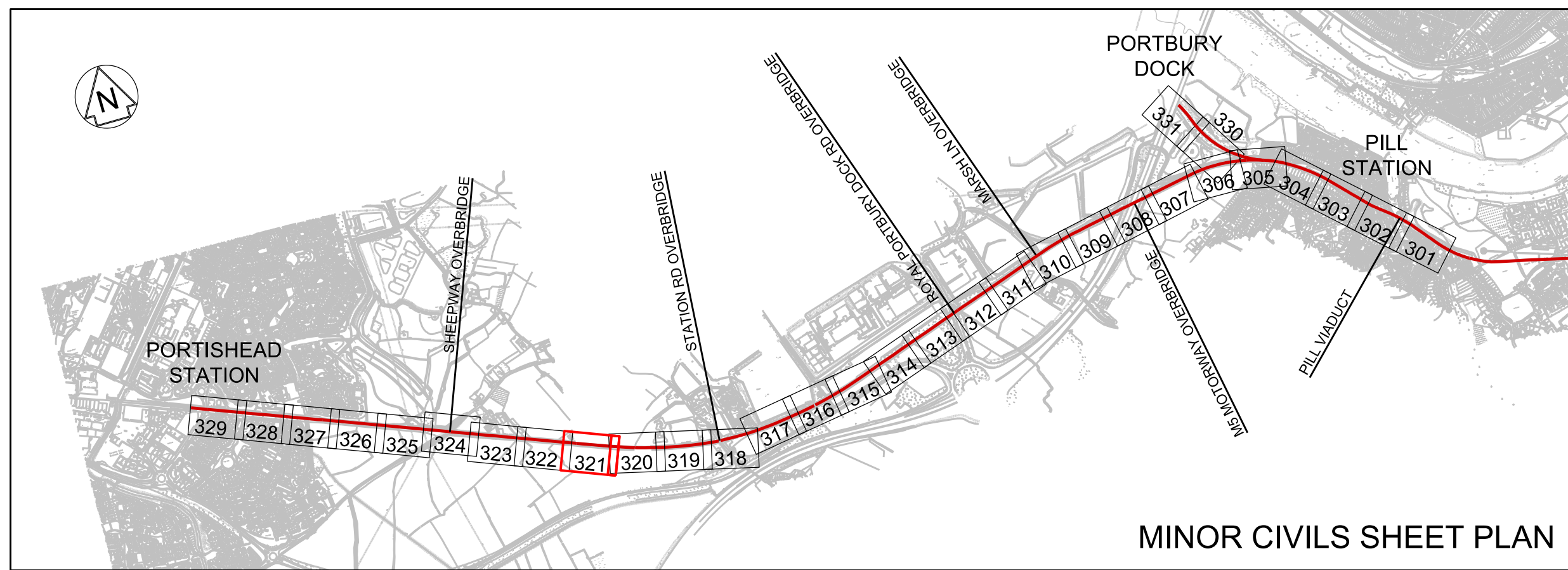
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www.arup.com

Project
METROWEST PHASE 1

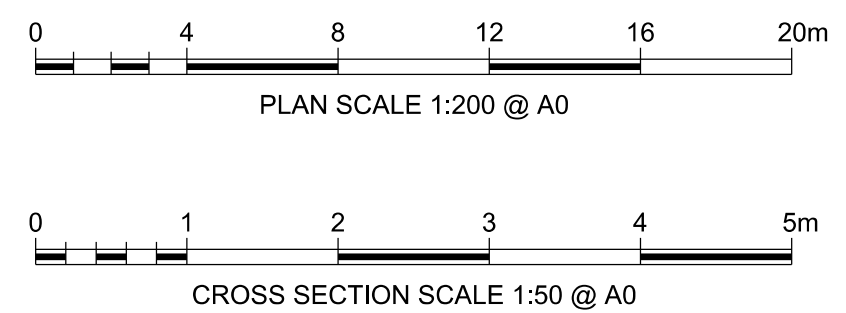
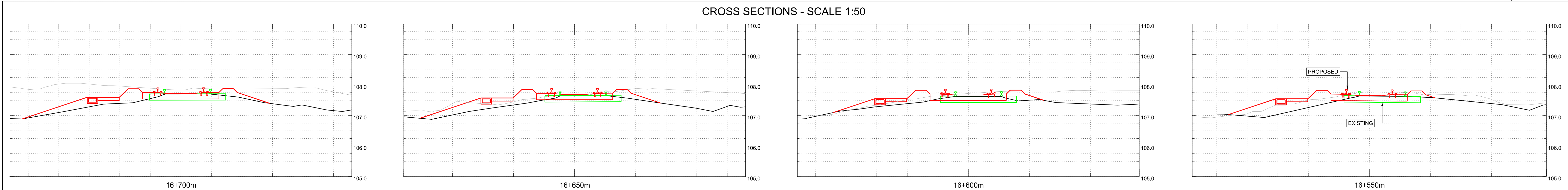
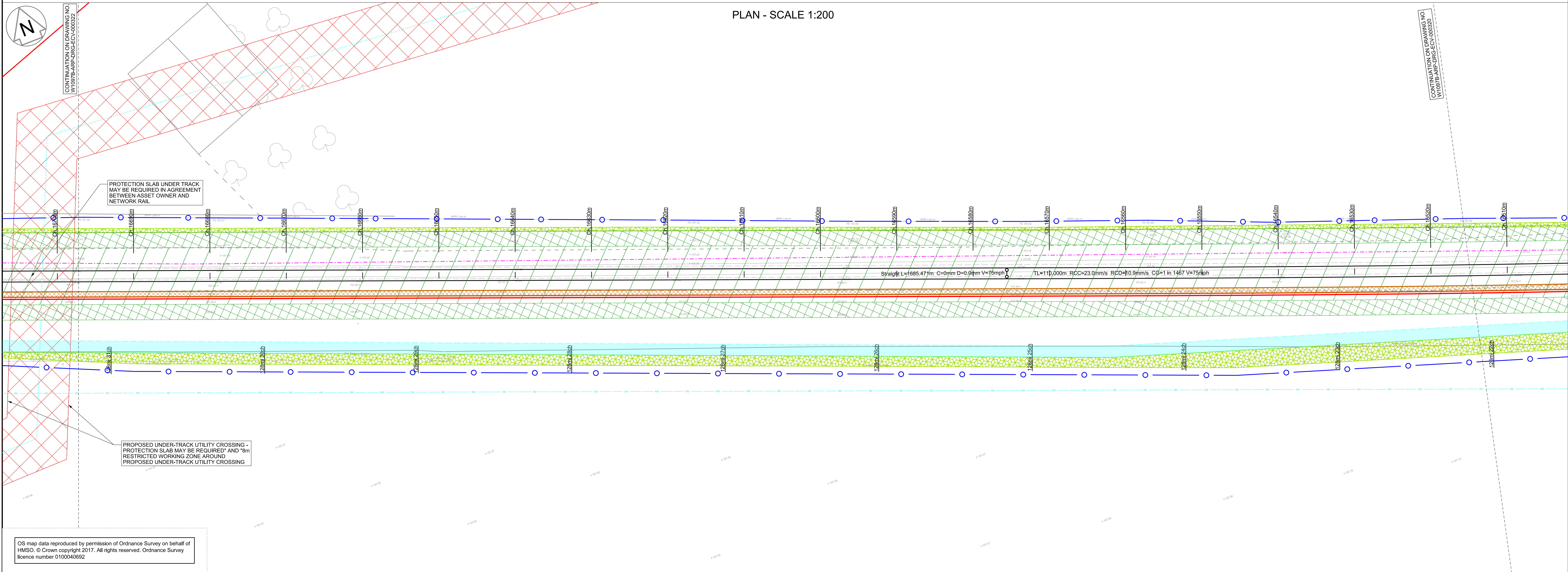
Drawing Title
**DISUSED RAILWAY ENGINEERING PLANS
GRIP 4 MINOR CIVILS
CH.16310m TO CH.16510m**

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 128M	12CH	
Alternative Reference		Sheet	20	of 31	
Drawing Number	W1097B-ARP-DRG-ECV-000320				
Revision	A03				

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		HIGH VOLTAGE ELECTRICITY - BELOW GROUND		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		AREA OF VEGETATION TO BE RETAINED DURING CONSTRUCTION	
PROPOSED FENCE GRADE II	— / — / —	DEVELOPMENT CONSENT ORDER (DCO)		GRSS PIPELINE		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	
REMOVED TROUING	— / — / —	AUTHORISED WALKING ROUTE		HIGH PRESSURE GAS MAIN			
EXISTING TROUING MODIFIED/REPLACED	— / — / —	EXTENT OF RAIL CORRIDOR TO BE CLEAR OF VEGETATION		BT 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		BT CABLE - ABOVE GROUND			
REMOVED UNDER TRACK CROSSING (UTX)	— / — / —			CABLE & WIRELESS			
				VIRGIN MEDIA CABLE - BELOW GROUND			
				VERIZON BACKBONE DUCT - BELOW GROUND			
				EXISTING DITCHES TO BE RETAINED/REPLACED			



- Legend/Notes
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Rev	Date	Description of Revisions	Drawn	Chkd	Appr
Status					Submittal
FIT FOR INFORMATION					S2



Contractor(s)

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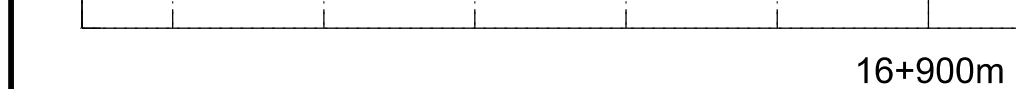
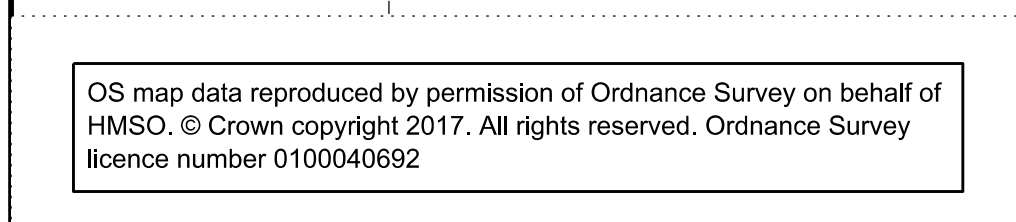
Project
METROWEST PHASE 1

Drawing Title
**DISUSED RAILWAY ENGINEERING PLANS
GRIP 4 MINOR CIVILS
CH.16510M TO 16700M**

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 128M 22CH	Sheet	21 of 31
Alternative Reference				Revision	

Drawing Number
W1097B-ARP-DRG-ECV-000321 A03

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 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	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



06. CROSS SECTIONS ARE TAKEN FACING INCREASING CHAINAGE

Rev	Date	Description of Revisions	Drawn	Chkd	App'd
Status					Suitability
FIT FOR INFORMATION					S

	FIND GRANT ORAMATION	SERIAL



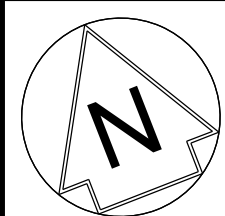
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Project	METROWEST PHASE 1
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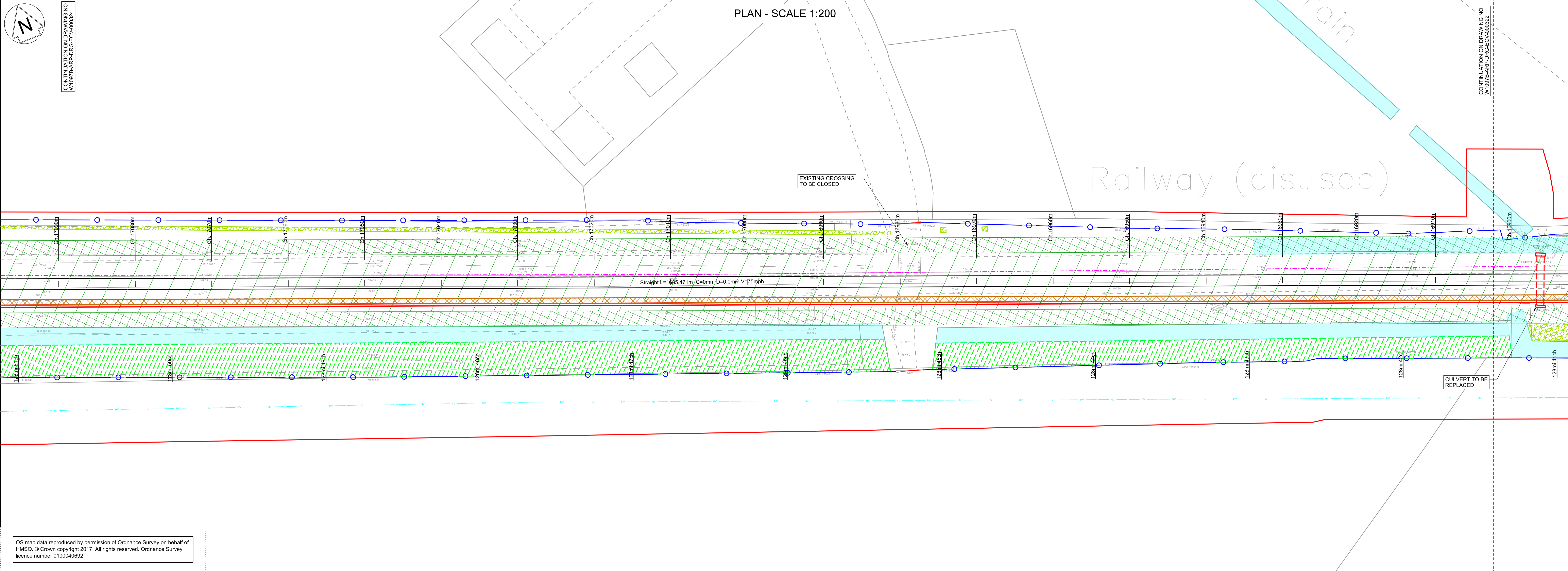
DISUSED RAILWAY ENGINEERING
PLANS
GRIP 4 MINOR CIVILS
CH.16700M TO 16900M

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

1:200	POD 128M 32CH
Alternative Reference	Sheet 23 of 31

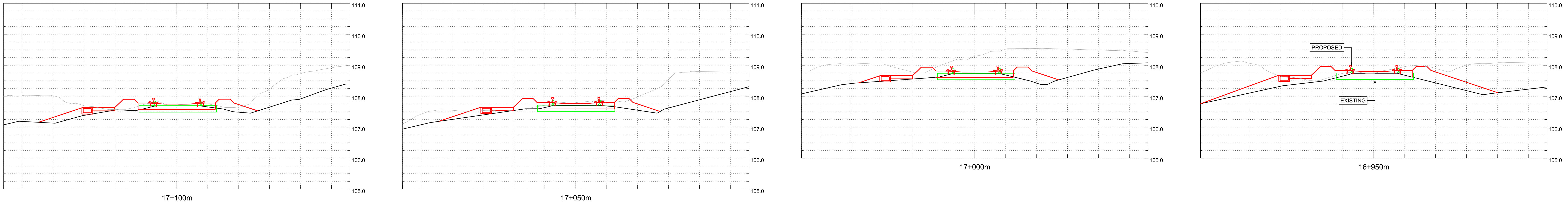


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W1097B-ARP-DRG-ECV-000324



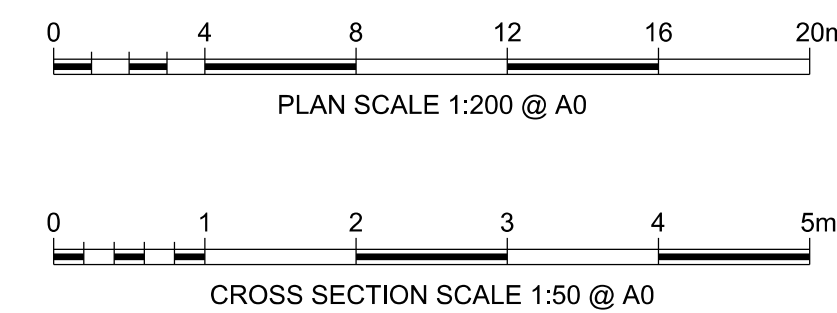
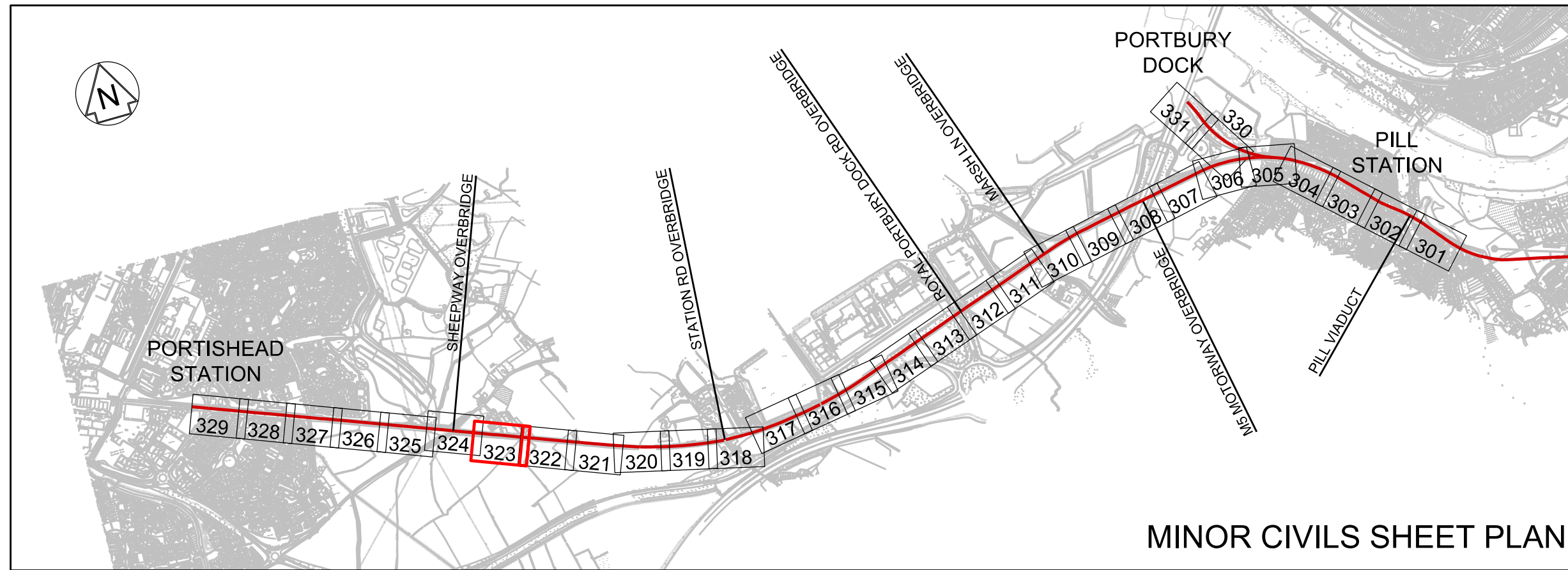
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CROSS SECTIONS - SCALE 1:50



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	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					Subsidiary
FIT FOR INFORMATION					S2



Contractor(s)

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Project
METROWEST PHASE 1

Drawing Title
**DISUSED RAILWAY ENGINEERING PLANS
GRIP 4 MINOR CIVILS
CH.16900M TO 17090M**

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 128M 41CH	Sheet	23 of 31
Alternative Reference				Revision	

Drawing Number
W1097B-ARP-DRG-ECV-000323 A03

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		HIGH VOLTAGE ELECTRICITY - BELOW GROUND		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		AREA OF VEGETATION TO BE RETAINED DURING CONSTRUCTION	
PROPOSED FENCE GRADE II	— / — / —	DEVELOPMENT CONSENT ORDER (DCO)		GRSS PIPELINE		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	
REMOVED TROUING	— / — / —	AUTHORISED WALKING ROUTE		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			
REMOVED UNDER TRACK CROSSING (UTX)	— / — / —			VIRGIN MEDIA CABLE - BELOW GROUND			
				VERIZON BACKBONE DUCT - BELOW GROUND			
				EXISTING DITCHES TO BE RETAINED/REPLACED			

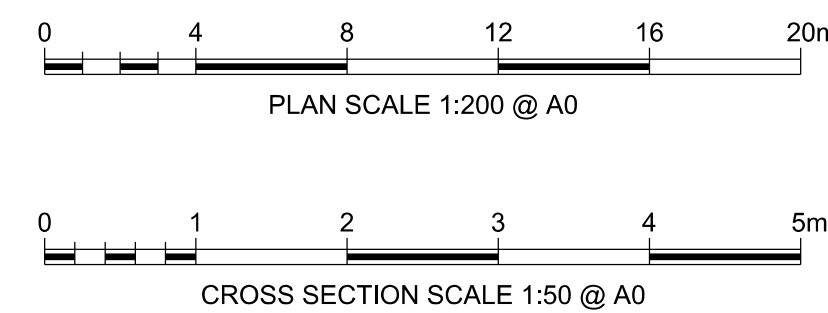


PLAN - SCALE 1:200

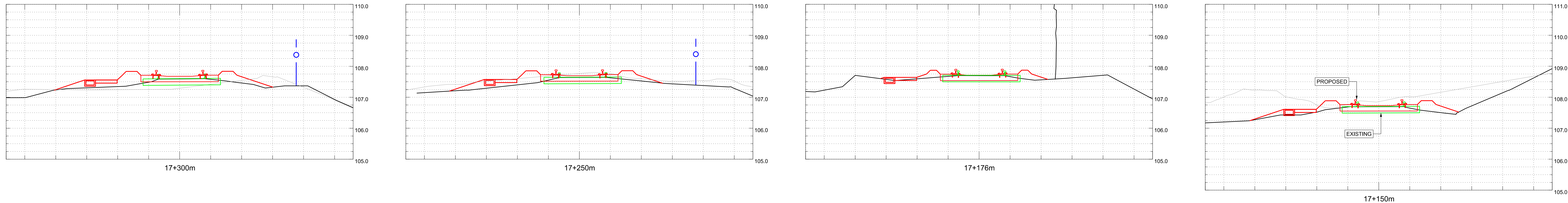


- LogenNotes
01. ALL LEVELS AND DIMENSIONS ARE SHOWN IN METRES
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02. DO NOT SCALE FROM THIS DRAWING, ONLY FIGURED
DIMENSIONS AND LEVELS TO BE USED.
03. CHAINAGE DATUM IS 4000.00m at THE 120M 40CH MILE POST
ON POD LINE. REGULAR CHAINAGE MARKERS PRESENTED 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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CROSS SECTIONS - SCALE 1:50



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	Asm
Status			Suitable for Issue		
FIT FOR INFORMATION					



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Project	METROWEST PHASE 1
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Drawing Title

DISUSED RAILWAY ENGINEERING
PLANS
GRIP 4 MINOR CIVILS
CH.17090M TO 17290M

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

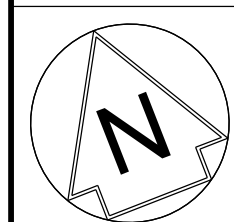
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Alternative Reference	Sheet 24 of 31
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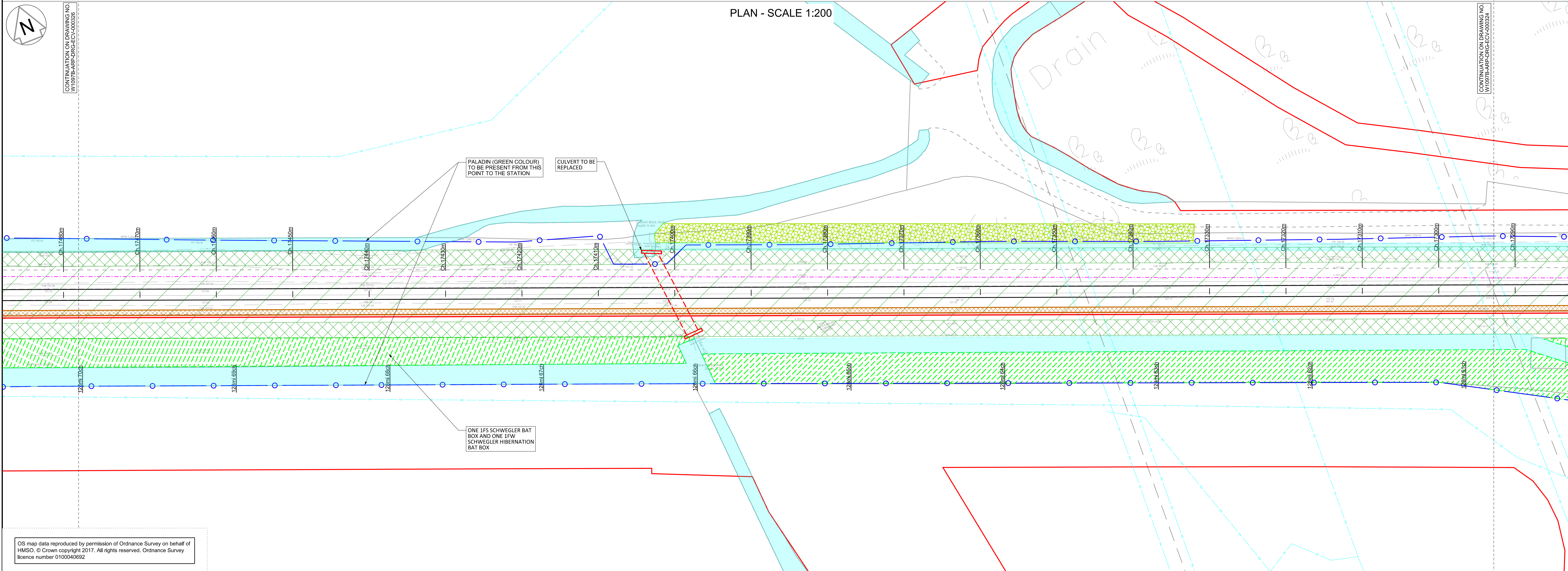
Drawing Number	Revision
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W1097B-ARP-DRG-ECV-000324	A03
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Sheet Size A0 84

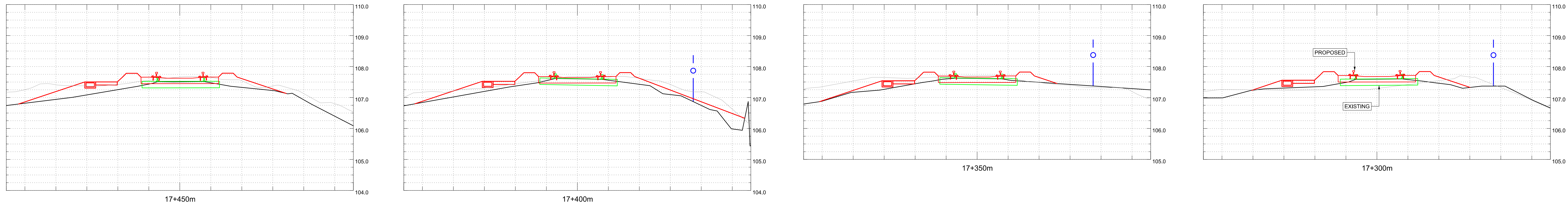


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W1097B-ARP-DRG-ECV-000326



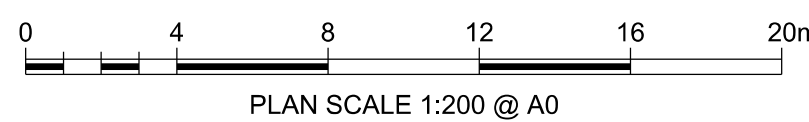
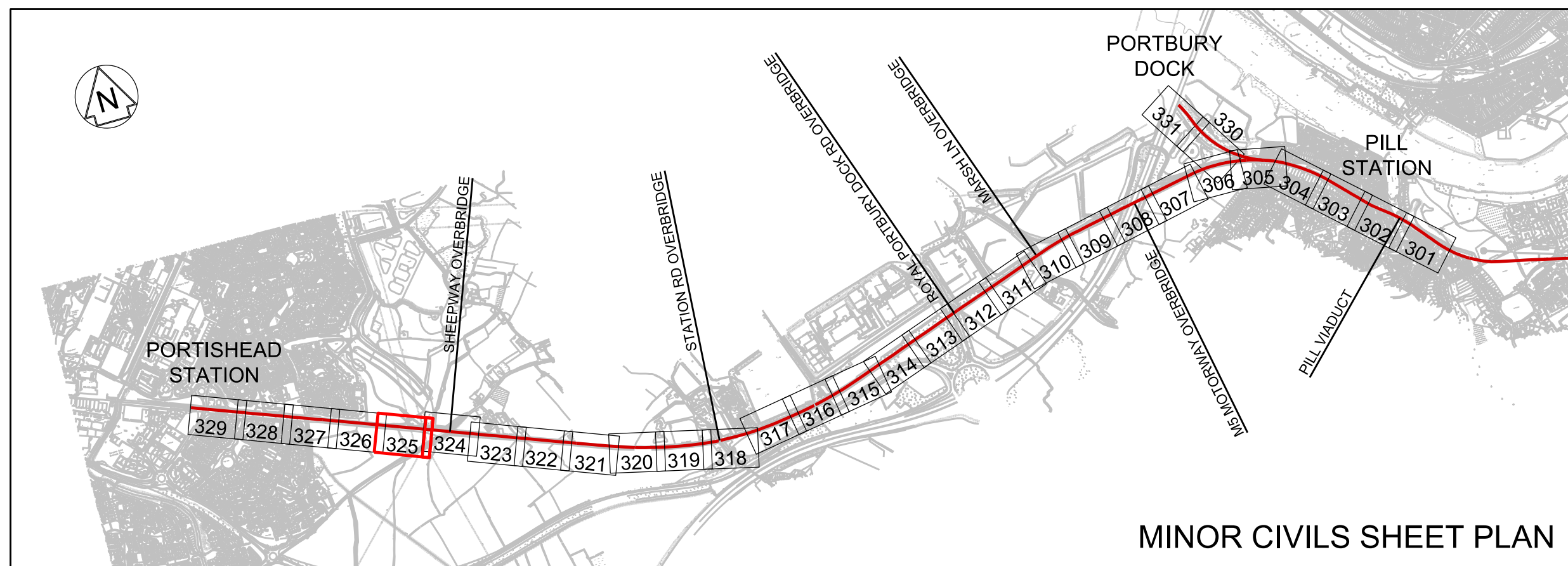
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CROSS SECTIONS - SCALE 1:50



Legend/Notes

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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.
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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
Rev	Date	Description of Revisions	Drawn	Chkd	Appr
Status					Subsidiary
FIT FOR INFORMATION					S2



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Project
METROWEST PHASE 1

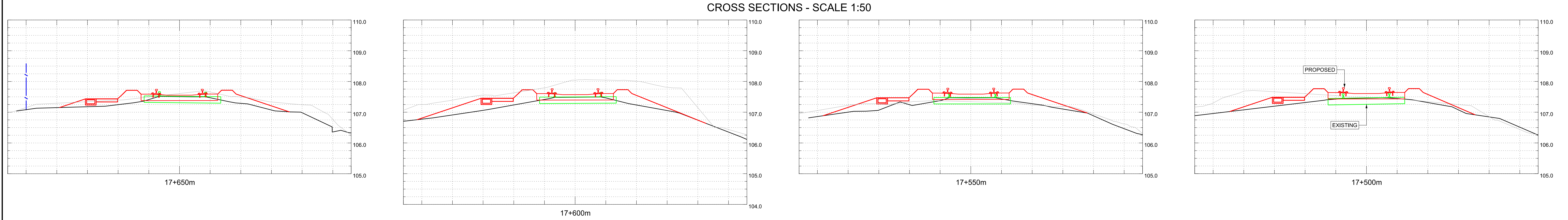
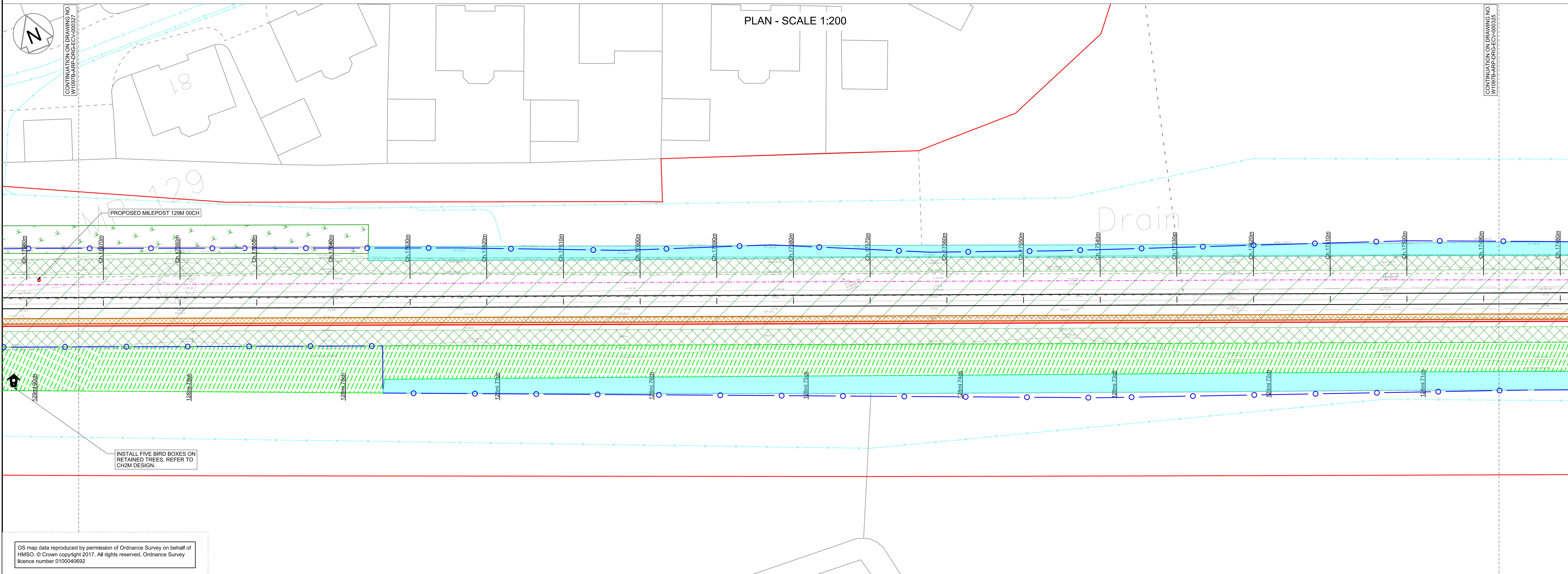
Drawing Title
**DISUSED RAILWAY ENGINEERING PLANS
GRIP 4 MINOR CIVILS
CH.17290M TO 17480M**

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 128M 61CH	Sheet	25 of 31
Alternative Reference				Revision	

Drawing Number
W1097B-ARP-DRG-ECV-000325 A03

Sheet Size A0 841 x 1195

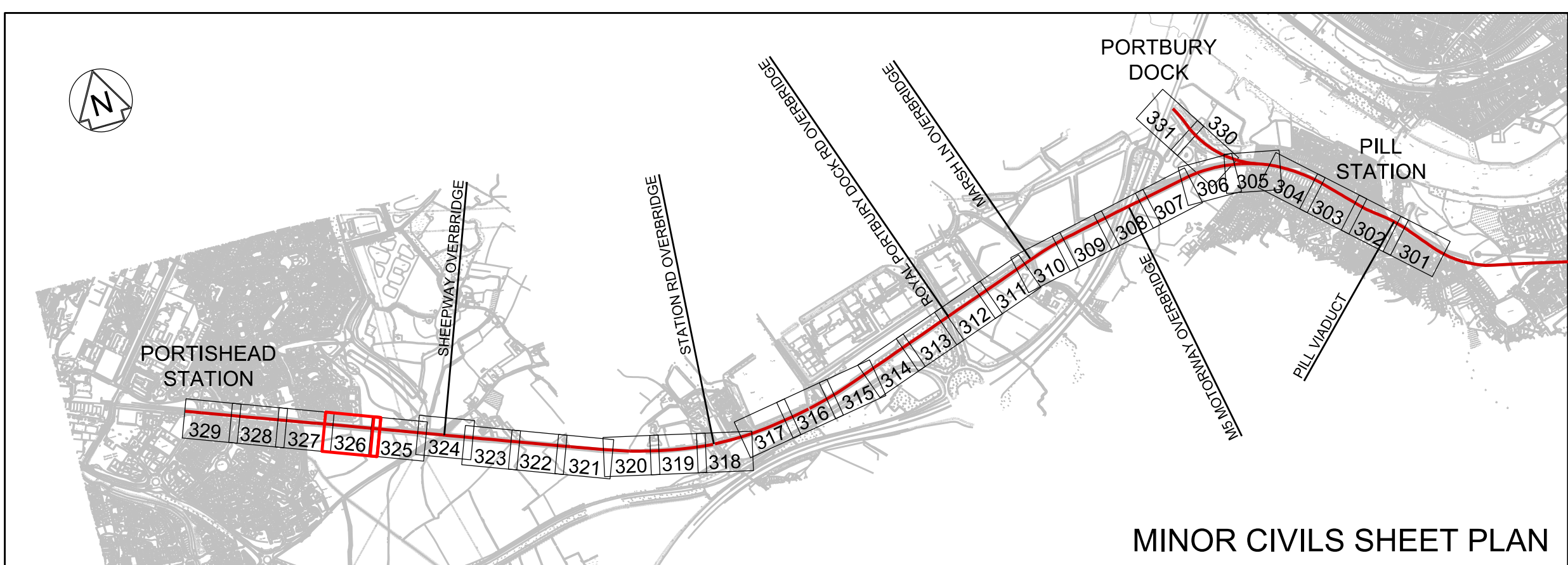
MINOR CIVILS		EXISTING UTILITIES		TELECOM LEGEND		SPECIES, ECOLOGY, LANDSCAPE	
EXISTING FENCE GRADE I	— / — / —	PROPOSED CABINET LOCATION (NOT TO SCALE)		WATER MAIN		WATER VOLES	
EXISTING FENCE GRADE II	— / — / —	PROPOSED SIGNAL (NOT TO SCALE)		FOUL SEWER		BATS	
EXISTING FENCE GRADE III	— / — / —	EXISTING 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 TROUGHING	— / — / —	CONTINUOUS POSITION OF SAFETY		BT CABLE ABOVE GROUND		HEDGE/TREES TO BE PLANTED DURING CONSTRUCTION	
REMOVED TROUGHING	— / — / —	AUTHORISED WALKING ROUTE		CABLE & WIRELESS			
EXISTING TROUGHING 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		VERIZON BACKBONE DUCT - BELOW GROUND			
EXISTING UNDER TRACK CROSSING (UTX)	— / — / —			EXISTING DITCHES TO BE RETAINED/REPLACED			
REMOVED UNDER TRACK CROSSING (UTX)	— / — / —						



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 SIZE NOT SHOWN TO SCALE		BATS	
EXISTING FENCE GRADE III		EXISTING CABINET TO BE REMOVED/RELOCATED		RISING 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 MODE 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 MODE 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 TROUHING		CONTINUOUS POSITION OF SAFETY		MEDIUM PRESSURE GAS MAIN				HEDGE/TREES TO BE PLANTED DURING CONSTRUCTION	
EXISTING TROUHING		AUTHORISED WALKING ROUTE		HIGH PRESSURE GAS MAIN					
REMOVED TROUHING		EXTENT OF RAIL CORRIDOR TO BE CLEAR OF VEGETATION		BT CABLE - BELOW GROUND					
EXISTING TROUHING 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					

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 4000.00m AT THE 120M 40CM MILE POST
ON FOD LINE. REGULAR CHAINAGE MARKERS PRESENTED ON
FLAT 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	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	Submittal S2



Contractor(s)

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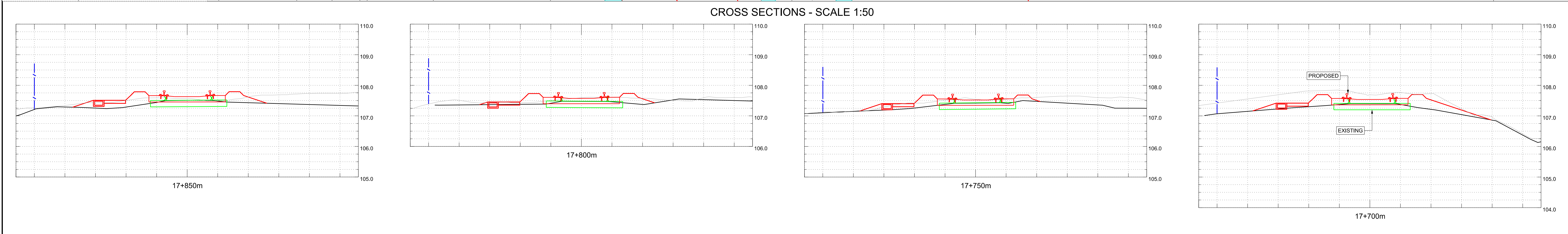
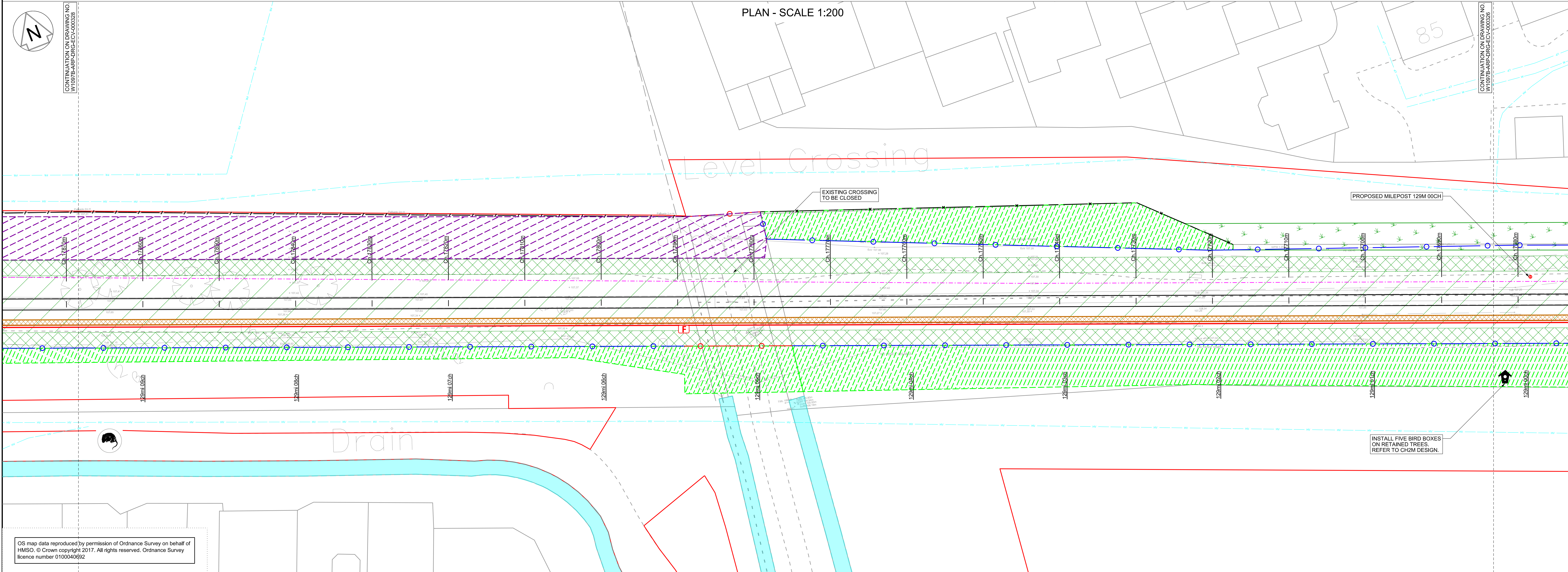
Project METROWEST PHASE 1

Drawing Title

**DISUSED RAILWAY ENGINEERING
PLANS
GRIP 4 MINOR CIVILS
CH.17480M TO CH.17680M**

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)	ELR & Mileage			

1:200	POD 128M 71CH
Alternative Reference	Sheet 26 of 31
Drawing Number	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 TROUGHING REMOVED TROUGHING EXISTING TROUGHING MODIFIED/REPLACED PROPOSED 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 ARMoured 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 CRISTED 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.

Rev	Date	Description of Revisions	Drawn	Chkd	Appr	Subsidiary
A01	15/03/19	ISSUE 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	

STATUS
FIT FOR INFORMATION
S2



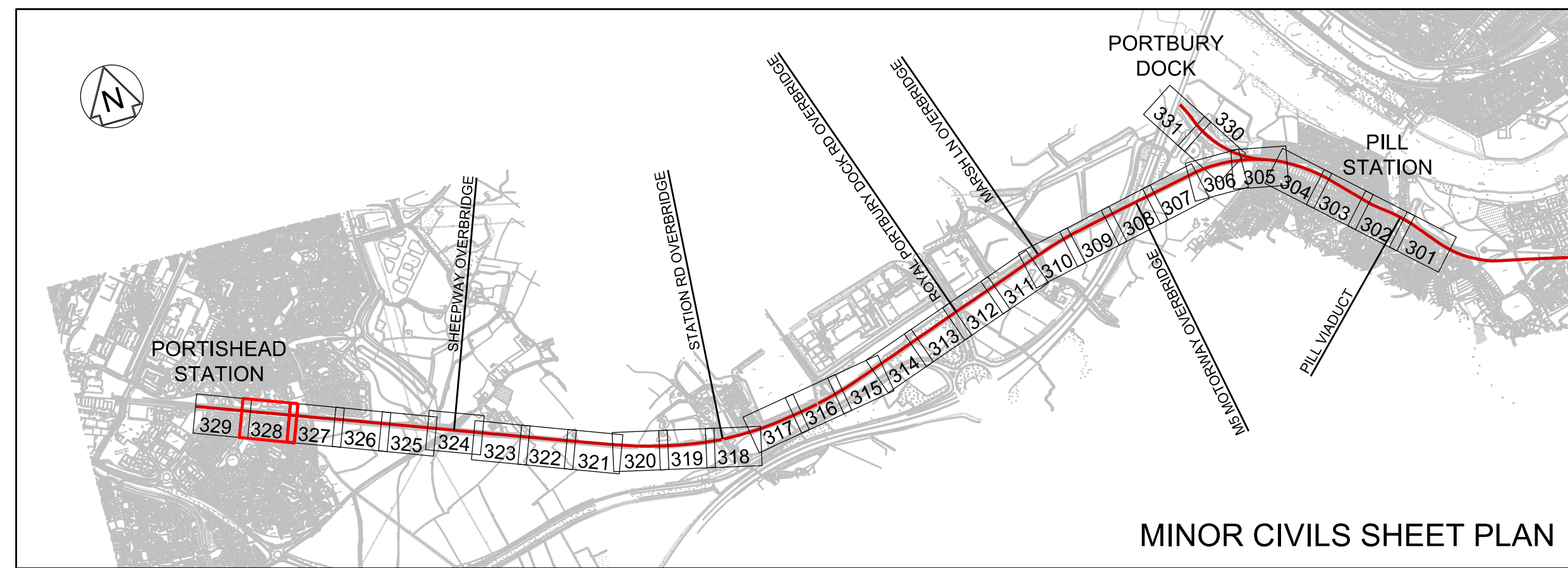
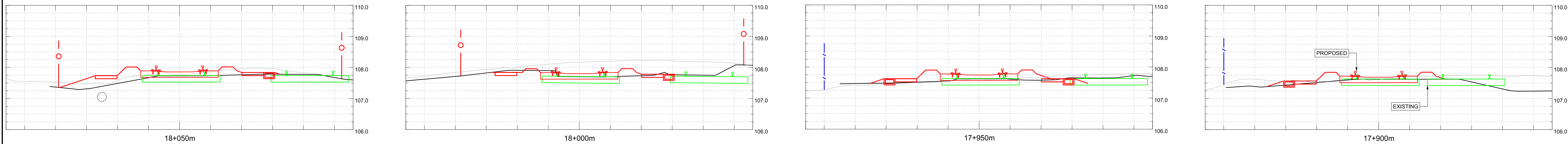
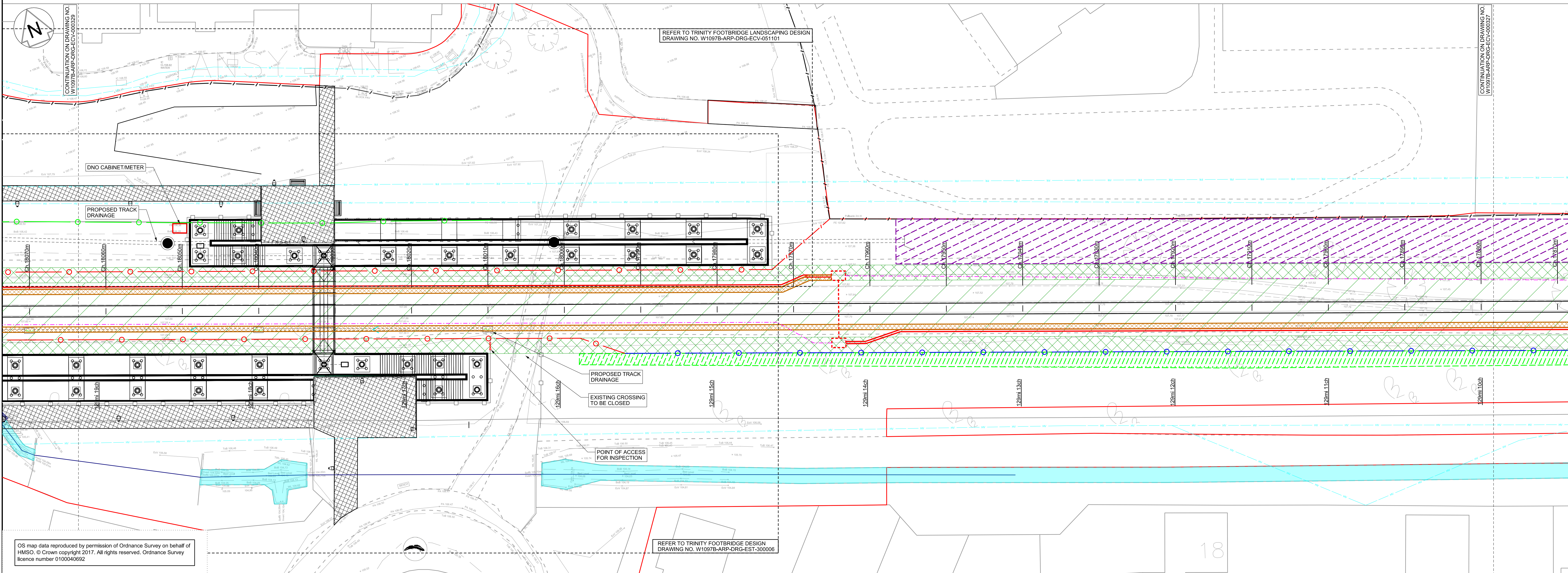
Contractor(s)



Project
METROWEST PHASE 1

Drawing Title
DISUSED RAILWAY ENGINEERING PLANS
GRIP 4 MINOR CIVILS
CH.17680M TO CH.17870M

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 129M 00CH	Sheet	27 of 31
Alternative Reference				Revision	



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

0 4 8 12 16 20m
PLAN SCALE 1:200 @ A0

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

A01	15/03/19	ISSUE 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)

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Project

METROWEST PHASE 1

Drawing Title
DISUSED RAILWAY ENGINEERING PLANS
GRIP 4 MINOR CIVILS
CH.17870M TO CH.18070M

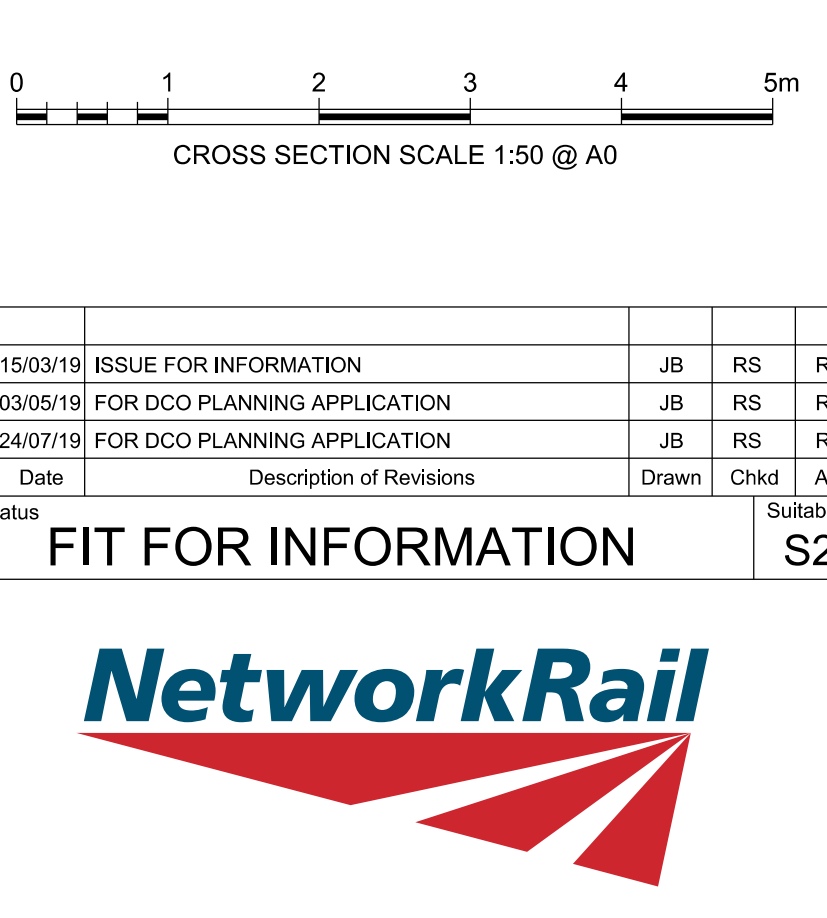
Designed	J. BACINSKI	Signed		Date	24/07/19
Drawn	J. BACINSKI	Signed		Date	24/07/19
Checked	R. SNELL	Signed		Date	24/07/19
Approved	R. SNELL	Signed		Date	24/07/19

Scale(s)	1:200	ELR & Mileage	POD 129M 10CH
Alternative Reference		Sheet	28 of 31
Drawing Number	W1097B-ARP-DRG-ECV-000328		
	Revision		

Sheet Size A0 841 x 1190

LEGEND

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		DORMICE	
EXISTING FENCE REMOVED		SEWER SURFACE		OTTERS	
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	
PROPOSED FENCE GRADE II		GRSS PIPELINE		WOODLAND TO BE PLANTED DURING CONSTRUCTION	
PROPOSED FENCE GRADE III		LOW PRESSURE GAS MAIN		GRASSLAND TO BE PLANTED DURING CONSTRUCTION	
PROPOSED TROUING		MEDIUM PRESSURE GAS MAIN		HEDGE/TREES TO BE PLANTED DURING CONSTRUCTION	
EXISTING TROUING		HIGH PRESSURE GAS MAIN			
REMOVED TROUING		BT CABLE - BELOW GROUND			
EXISTING TROUING 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			

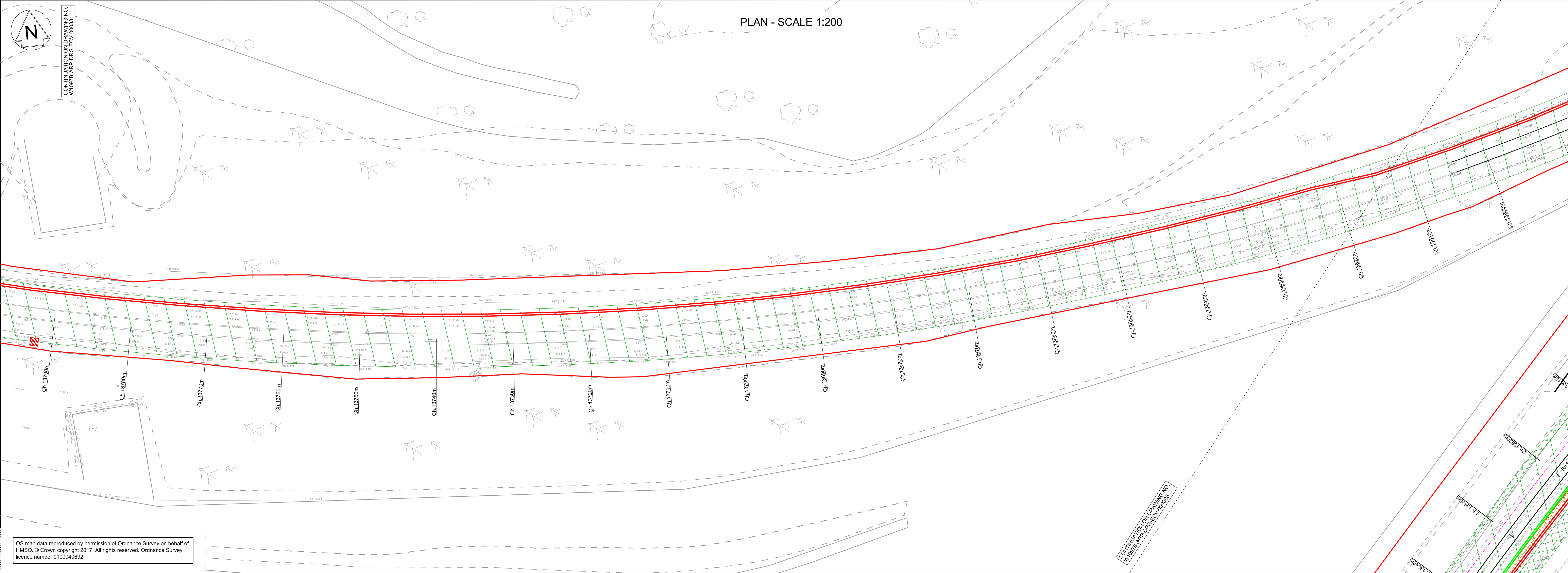


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Project METROWEST PHASE 1

Drawing Number		29 of 31
W1097B-ARP-DRG-ECV-000329		Revision A03

W1097B-ARP-DRG-ECV-000329	A03
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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.
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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

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
Suitability
S2



Contractor(s)

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Project
METROWEST PHASE 1

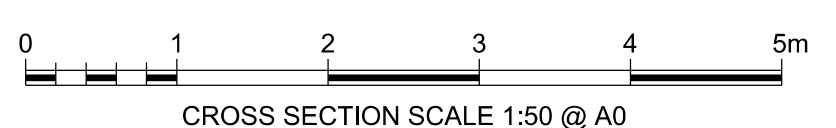
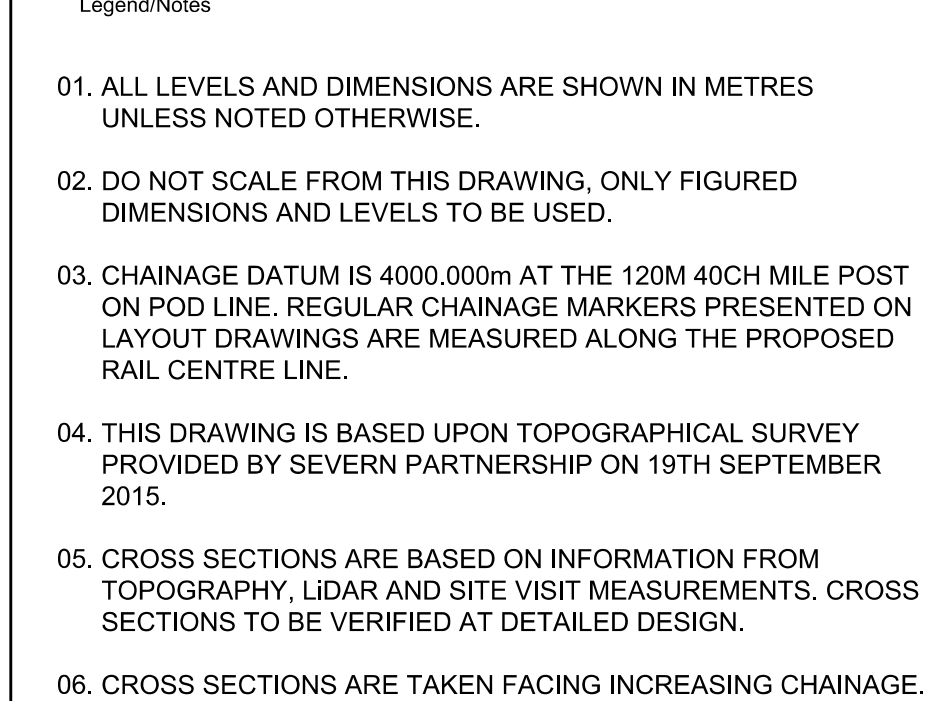
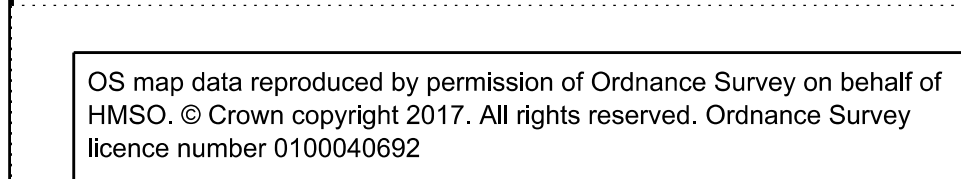
Drawing Title
**DISUSED RAILWAY ENGINEERING PLANS
GRIP 4 MINOR CIVILS
PORTBURY DOCK**

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
Alternative Reference
POD 126M 36CH

Sheet
30 of 31

Drawing Number
W1097B-ARP-DRG-ECV-000330
Revision
A03



Status	FIT FOR INFORMATION	Suitab	S2
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Project	METROWEST PHASE 1
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Drawing Title

DISUSED RAILWAY ENGINEERING
PLANS
GRIP 4 MINOR CIVILS
PORTBURY DOCK

Designed	J. BACINSKI	Signed	Date 24/07/15
Drawn	J. BACINSKI	Signed	Date 24/07/15
Checked	R. SNELL	Signed	Date 24/07/15
Approved	R. SNELL	Signed	Date 24/07/15
Scale(s)	FLR & Mission		

1:200	POD 126M 47CH
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Alternative Reference	Sheet
	01 01

		31 of 31
Drawing Number		Revision

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		DORMICE	
EXISTING FENCE REMOVED		SEWER SURFACE		OTTERS	
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	
PROPOSED FENCE GRADE II		GPSS PIPELINE		WOODLAND TO BE PLANTED DURING CONSTRUCTION	
PROPOSED FENCE GRADE III		LOW PRESSURE GAS MAIN		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			
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			