

MetroWest+

Portishead Branch Line (MetroWest Phase 1)

TR040011

Applicant: North Somerset District Council

2.8.1 - 2.8.10 **Engineering Sections**

> Portishead Station, Portishead Station Proposed Platforms, Trinity Footbridge, S022 Quarry Underbridge 2, Mount Pleasant Embankment, Hardwick Road Cutting, Avon Road Embankment, Pill Station, Pill Station Proposed Typical Sections, Quarry Underbridge No. 2

> > WEST OF

ENGLAND

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HM Government

The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009, 5(2) (o) Planning Act 2008 **Author: ARUP** Date: September 2021

NetworkRail

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Document Index

Version	Date	Status of version	Document Index	Document Revision	Changes
1	19 November 2019	Application	 2.8.1 Portishead Station Sections - W1097B-ARP-DRG-EST-300003 Rev A02 2.8.2 Portishead Station Proposed Platform Sections(Sheets 1 and 2) - W1097B-ARP-DRG-EST-300004-05 Rev A02 2.8.3 S051 Trinity Footbridge Proposed General Arrangement (sections) - W1097B-ARP-DRG-EST-300007 Rev A01 2.8.4 S022 Quarry Underbridge 2 ProposedSections - W1097B-ARP-DRG-EST-300017 Rev A02 2.8.5 Mount Pleasant Embankment - Typical CrossSections - W1097B-ARP-DRG-EGE-300003 Rev A02 2.8.6 Hardwick Road Cutting Typical Cross Sections - W1097B-ARP-DRG-EGE-300006 Rev A02 2.8.7 Avon Road Embankment Typical CrossSections - W1097B-ARP-DRG-EGE-300009 Rev A02 2.8.8 S050 Pill Station Proposed Station Sections(Sheets 1, 2 and 3) - W1097B-ARP-DRG-EST-300015 Rev A01 2.8.9 Pill Station Proposed Station Typical Sections - W1097B-ARP-DRG-EST-300015 Rev A01 2.8.10 S022 Quarry Underbridge 2 Proposed GeneralArrangement - W1097B-ARP-DRG-EST-300015 Rev A01 		-
2	20 September 2021		 2.8.1 Portishead Station Sections - W1097B-ARP-DRG-EST-300003 Rev A02 2.8.2 Portishead Station Proposed Platform Sections(Sheets 1 and 2) - W1097B-ARP-DRG-EST-300004-05 Rev A02 2.8.3 S051 Trinity Footbridge Proposed General Arrangement (sections) - W1097B-ARP-DRG-EST-300007 Rev A01 2.8.4 S022 Quarry Underbridge 2 ProposedSections - W1097B-ARP-DRG-EST-300017 Rev A02 2.8.5 Mount Pleasant Embankment - Typical CrossSections - W1097B-ARP-DRG-EGE-300003 Rev A02 2.8.6 Hardwick Road Cutting Typical Cross Sections - W1097B-ARP-DRG-EGE-300006 Rev A02 2.8.7 Avon Road Embankment Typical CrossSections - W1097B-ARP-DRG-EGE-300009 Rev A02 2.8.8 S050 Pill Station Proposed Station Sections(Sheets 1, 2 and 3) - W1097B-ARP-DRG-EST-300012-14 Rev A01 2.8.9 Pill Station Proposed Station Typical Sections - W1097B-ARP-DRG-EST-300015 Rev A01 2.8.10 S022 Quarry Underbridge 2 Proposed GeneralArrangement - W1097B-ARP-DRG-EST-300015 Rev A01 	Removed	Trinity Prima removed.

ary School Bridge and associated works



Sheet Size A1 594 x 841



SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards / risks normally associated with the types of work detailed

In the temporary the case the edge of the platform precast concrete unit adjacent to the track will be unsupported. In order to prevent overturning this edge should not be loa In the permanent case the concrete topping will cantilever to carry any load applied a

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Γ CONCRETE BEAM	Netwo	orkRail
ANEL DETAIL		
WORK WALL	Contractor(s)	
D BEAM	ARUP	33 St Thomas Street Bristol BS1 6JZ Fel +44(0)117 976 5432 Fax +44(0)117 976 5433 www.arup.com
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- SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION PREVIOUS REPAIR DRAWINGS DO NOT CONFIRM ABUTMENT SHAPE. ABUTMENT THICKNESS AND STABILITY TO BE VERIFIED AT DETAILED DESIGN. SITE INVESTIGATION REQUIRED. SERVICES ARE PRESENT ON THE BRIDGE BUT ARE NOT SHOWN. THE STABILITY OF THE EXISTING ABUTMENTS AND WINGWALLS DURING EXCAVATION SHOULD BE VERIFIED AT DETAILED DESIGN STAGE. NO GROUND INVESTIGATION WAS UNDERTAKEN FOR FORM 001 DESIGN. THE DESIGN IS
- THEREFORE BASED ON THE GROUND CONDITIONS ILLUSTRATED WITHIN THE AS-BUILT DRAWINGS FOR QUARRY UNDERBRIDGE 1, LOCATED APPROXIMATELY 150m FROM THE STRUCTURE. THERE IS A RESIDUAL RISK THAT ANY VARIATIONS IN THE ANTICIPATED ROCK LEVEL COULD SIGNIFICANTLY AFFECT THE FORM OF THE PROPOSED STRUCTURE.
- POOR ACCESS TO SITE. TRACK ACCESS MAY BE REQUIRED FOR CONSTRUCTION.

Legend/Notes GENERAL NOTES

- ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS STATED OTHERWISE.
- . ALL LEVELS ARE IN METRES ABOVE SNAKE GRID RBEPP12 (ORDNANCE DATUM + 100 METRES).
- . THIS DRAWING IS BASED ON TOPOGRAPHICAL SURVEY UNDERTAKEN BY SEVERN PARTNERSHIP LTD. IN 2015.
- . BURIED SERVICES HAVE BEEN TAKEN FROM NETWORK RAIL SUPPLIED BURIED SERVICES RETURN DATED 2015. NO FURTHER SURVEYS HAVE BEEN UNDERTAKEN BY ARUP.
- NO GROUND INVESTIGATION HAS BEEN UNDERTAKEN IN THE PREPARATION OF THIS DESIGN. THIS MUST BE UNDERTAKEN AT DETAILED DESIGN TO CONFIRM THAT THE EXISTING ABUTMENTS ARE FOUNDED ON COMPETENT ROCK.
- REFER TO THE PROPOSED TRACK SUBMISSION FOR SIGNAGE REQUIREMENTS.
- PROPOSED HEADROOM TO BE EQUAL TO OR GREATER THAN EXISTING MINIMUM HEADROOM AT CENTRELINE OF 1.82m. SUBJECT TO DETAILED DESIGN, UP TO 2.292m MAY BE AVAILABLE
- THREADED ANCHOR RODS TO BE CAST IN TO PRECAST EDGE BEAM, TO ALLOW BOLTED CONNECTION OF PRECAST PARAPET BEAM, REDUCING THE REQUIRED IN-SITU CONCRETE.















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	GENERAL NOTES: 01. THE CONTRACTOR MUST REFER TO RISK CONCERNING THE WORKS. SOM RISKS ARE HIGHLIGHTED ON THE DR	THE HAZARD REGISTER FOR /E OF THE KEY SITE SPECIFIC AWING.
	02. ALL LEVELS ARE SHOWN IN METRES (MAOD). UNLESS NOTED OTHERWISE METRES.	ABOVE ORDNANCE DATUM , ALL DIMENSIONS ARE IN
	03. DO NOT SCALE FROM THIS DRAWING AND LEVELS TO BE USED.	, ONLY FIGURED DIMENSIONS
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15.0	06. THE CONTRACTOR SHALL BE RESPO SUPPORTS AND / OR RESTRICTION C CONSTRUCTION; INCLUDING PROTEC EXISTING LINESIDE EQUIPMENT WHIT DURING THE WORKS.	NSIBLE FOR ALL TEMPORARY IN THE SEQUENCE OF CTION OF THE TRACK AND ALL CH WILL REMAIN IN OPERATION
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20.0	PORTISHEAD BI (METROWEST	RANCH LINE PHASE 1)
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	Designed J.BACINSKI Signed J. BACINSKI Signed	d Date 20/09/19
	Checked R. SNELL Signe	d Date 20/09/19
	Approved R. SNELL Signed Scale(s) ELR d	d Date 20/09/19
	1:200 I	POD 126MI20CH
	Drawing Number	1 of 1 Revision
	W1097B-ARP-DRG-EC	GE-300006 A02
		Sheet Size A1 594 x 841

-300009 Ш Ċ Ш -DRG-W1097B-ARP









	GENERAL NOTES: 01. THE CONTRACTOR MUST REFER RISK CONCERNING THE WORKS. RISKS ARE HIGHLIGHTED ON THE	TO THE HAZARD REGISTER FOR SOME OF THE KEY SITE SPECIFIC E DRAWING.
	02. ALL LEVELS ARE SHOWN IN METH (MAOD). UNLESS NOTED OTHERV METRES.	RES ABOVE ORDNANCE DATUM WISE, ALL DIMENSIONS ARE IN
	03. DO NOT SCALE FROM THIS DRAW AND LEVELS TO BE USED.	VING, ONLY FIGURED DIMENSIONS
)	04. DESIGN BASED ON TOPOGRAPHI BETWEEN SEPTEMBER 2015 AND PARTNERSHIP. IN SOME AREAS W EARTHWORK IS STEEP OR INACC OF THE SLOPE HAS BEEN EXTRA THE CREST OF THE SLOPE AND C SLOPE. THE CONTRACTOR SHOU APPROXIMATION OF THIS METHO WORKS AND CUT / FILL VOLUMES	ICAL SURVEY CARRIED OUT O SEPTEMBER 2016 BY SEVERN WHERE THE FACE OF THE EXISTING CESSIBLE THE EXISTING PROFILE POLATED BASED ON ONE POINT AT ONE POINT AT THE TOE OF THE JLD BE AWARE OF THE OD WHEN ASSESSING TEMPORARY S.
	05. THE CONTRACTOR IS TO ENSURI ANY CUT SLOPES. IN DOING SO T CONSIDER THE EXTENT OF SLOF THAT CAN BE EXCAVATED AT AN BEFORE BACKFILLING OR STABIL	E THE TEMPORARY STABILITY OF THE CONTRACTOR SHOULD PE (I.E. PARALLEL TO THE TRACK) Y ONE TIME AND THE TIME PERIOD LISING.
	06. THE CONTRACTOR SHALL BE RES SUPPORTS AND / OR RESTRICTIO CONSTRUCTION; INCLUDING PRO EXISTING LINESIDE EQUIPMENT DURING THE WORKS.	SPONSIBLE FOR ALL TEMPORARY ON ON THE SEQUENCE OF DTECTION OF THE TRACK AND ALL WHICH WILL REMAIN IN OPERATION
)	07. POSSESSION REQUIREMENTS FO	DR THE WORKS ARE TO BE HE CONTRACTOR.
)	08. MONITORING OF THE EMBANKME DOCK BRANCH LINE IS REQUIRED	ENT AND THE EXISTING PORTBURY D DURING THE WORKS. THIS IS TO
	09. SEE DRAWING AND W109B-ARP-E ARRANGEMENT, AND W109B-ARF	DRG-EGE-300007 FOR GENERAL P-DRG-EGE-300008 FOR DETAILS OF
	SOIL NAILS. 10. NO GI SPECIFIC TO THE EARTHW COMPLETED AHEAD OF DETAIL D	ORK UNDERTAKEN - TO BE DESIGN.
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)		
		12 16 20m
)	CROSS SECTION	I SCALE 1:200 @ A1
)	Rev Date Description of R	evisions Drawn Chkd Appr
		RMATION S2
)	Contractor(s)	orkRail
	ARUP ⁶³ Br W	8 St Thomas Street istol BS1 6JZ el +44(0)117 976 5432 Fax +44(0)117 976 5433 ww.arup.com
	Project	BRANCH LINE
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)	1	ST PHASE 1)
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)	Drawing Title AVON ROAD E TYPICAL CRO POD 126MI 27CH (13390M T Designed J.BACINSKI Drawn J. BACINSKI Checked R. SNELL	ST PHASE 1) EMBANKMENT SS SECTIONS I TO 126MI 34CH O 13510M) Signed Date 20/09/19 Signed Date 20/09/19 Signed Date 20/09/19 Signed Date 20/09/19
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	 SURVEYS UNDER THE PROPOSED F DETAILED ON THE DRAWINGS SHOU DIMENSIONS ARE THE INDICATIVE O BASED ON INTER TO VEGETATION O CLEARED OF ALL DETAILED DESIGN THE OUTLINE PRO ACCOMMODATE THE BASIS OF LIN WILL BE CONFIRM GROUND INVEST SURVEY AND SLOCE THE CUTTING SLOCE THE CUTTING SLOCE THE NETWORK R DRAWING HAS BE DATA AND SHOUL ALL DIMENSIONS DESIGN STAGE. FOR LIGHTING CO W1097B-ARP-DROCE BACK OF WALL DI PERFORATED PIF 12-20mm SHINGLE ANTI-CLIMB FINIS COLUMNS. DETA 	RTAKEN BY SEVERN PARTNE RAIL ALIGNMENT IS SUBJEC E DRAWING. JLD NOT BE SCALED, ONLY F E TO BE USED. CUTTING PROFILE SHOWN C PRETATION OF LIDAR DATA CLEARANCE. THE CUTTING VEGETATION AND RE-SURV N. OPOSED WORKS TO THE CU THE SLOPING PATH HAVE BE MITED GROUND INVESTIGAT MED FOLLOWING RECEIPT O IGATION RESULTS, DETAILE DPE INSPECTION. OPE SHOULD BE INSPECTED EXPERIENCED GEOTECHNE ENCEMENT OF DETAILED DE AIL LAND BOUNDARDY INDIC EN INTERPRETED FROM OF D BE CONFIRMED PRIOR TO SHOWN TO BE CONFIRMED PLATFORM INFRASTRUCTUR B-ARP-DRG-EST-300011 DLUMN POSITIONS REFER TO S-EPT-30002. RAINAGE TO BE 225mm DIA, PE WRAPPED IN GEOTEXTILE E STONE. H TO BE APPLIED TO LIGHTI ILS TO BE AGREED WITH NE D DESIGN STAGE	RSHIP LTD. IN 2015. TO VARIATION, AS GURED IN THE SECTIONS IS COLLECTED PRIOR SHOULD BE (EYED PRIOR TO ITTING TO EN DEVELOPED ON IONS. THE DESIGN F FURTHER D TOPOGRAPHIC I TOPOGRAPHIC O BY AN CAL ENGINEER ESIGN. CATED ON THIS RDANANCE SURVEY D DETAILED DESIGN AT DETAILED RE REFER TO O DRAWING FULLY E. SURROUND TO BE NG, CCTV AND PA TWORK RAIL
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$0 \qquad 1 \qquad 2 \qquad 3 \qquad 4 \qquad 5m$	Project PORTIS (MET	SHEAD BRANC ROWEST PHA	CH LINE SE 1)
 SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION IN ADDITION TO THE HAZARDS NORMALLY ASSOCIATED WITH THIS TYPE OF WORK, SPECIAL ATTENTION SHOULD BE GIVEN TO: i) THE EXISTING CUTTING SLOPES MAY BE UNSTABLE. ii) UNSAFE STRUCTURES MAY BE PRESENT ACROSS THE EXISTING PLATFORM. 	Drawing Title SO PROPOS	50 PILL STATIOE ED STATION S SHEET 1	ON ECTIONS
 iii) NO INFORMATION IS AVAILABLE REGARDING THE FORMATION OF THE EAST WALLS. iv) BURIED SERVICES ARE PRESENT ACROSS THE SITE. THE PRECISE POSITIONS OF THESE ARE TO BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION WORKS COMMENCING. v) ELEVATED LEVELS OF CONTAMINANTS, INTRAVENOUS NEEDLES AND OTHER HAZARDOUS SUBSTANCES MAY BE PRESENT ONSITE. 	Designed T. MYNOR Drawn J. BACINS Checked R. SNELL Approved R. SNELL Scale(s) 1.50	S Signed KI Signed Signed Signed ELR & Mileage	Date 22/07/19 Date 22/07/19 Date 22/07/19 Date 22/07/19 Date 22/07/19
vi) THERE IS LIMITED TOPOGRAPHIC SURVEY AVAILABLE AT THIS SITE AND THE FORM 001 DESIGN IS BASED ON INTEPRETATION OF LIDAR DATA. FULL TOPOGRAPHIC SURVEY REQUIRED PRIOR TO DETAILED DESIGN.	Alternative Reference Drawing Number W1097B-AR	P-DRG-EST-30	Sheet 1 of 3 Revision A01 Sheet Size A1 594 x 841

Legend/Notes

OTHERWISE.

ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS STATED

. ALL LEVELS ARE IN METRES ABOVE SNAKE GRID RBEPP12

3. THIS DRAWING IS BASED ON TOPOGRAPHICAL AND LIDAR

(ORDNANCE DATUM + 100 METRES).



	 DETAILED ON THE DRA 5. DRAWINGS SHOULD N DIMENSIONS ARE TO B 6. THE INDICATIVE CUTTI BASED ON INTERPRET TO VEGETATION CLEA CLEARED OF ALL VEG DETAILED DESIGN. 7. THE OUTLINE PROPOS ACCOMMODATE THE S THE BASIS OF LIMITED WILL BE CONFIRMED F GROUND INVESTIGATI SURVEY AND SLOPE IN 8. THE CUTTING SLOPE S APPROPRIATELY EXPE PRIOR TO COMMENCE 09. THE NETWORK RAIL LA DRAWING HAS BEEN IN DATA AND SHOULD BE 10. ALL DIMENSIONS SHOUDESIGN STAGE. 11. FOR DETAILS OF PLAT DRAWING W1097B-ARF 12. FOR LIGHTING COLUM W1097B-ARP-DRG-EPT 13. BACK OF WALL DRAINA PERFORATED PIPE WF 12-20mm SHINGLE STC 14. ANTI-CLIMB FINISH TO COLUMNS. DETAILS T DURING DETAILED DES 	AWING. OT BE SCALED, ONLY FIGURED BE USED. ING PROFILE SHOWN ON THE SECTIONS IS ATION OF LIDAR DATA COLLECTED PRIOR RANCE. THE CUTTING SHOULD BE ETATION AND RE-SURVEYED PRIOR TO SED WORKS TO THE CUTTING TO GLOPING PATH HAVE BEEN DEVELOPED ON GROUND INVESTIGATIONS. THE DESIGN COLLOWING RECEIPT OF FURTHER ON RESULTS, DETAILED TOPOGRAPHIC NSPECTION. SHOULD BE INSPECTED BY AN ERIENCED GEOTECHNICAL ENGINEER MENT OF DETAILED DESIGN. AND BOUNDARDY INDICATED ON THIS NTERPRETED FROM ORDANANCE SURVEY E CONFIRMED PRIOR TO DETAILED DESIGN WN TO BE CONFIRMED AT DETAILED FORM INFRASTRUCTURE REFER TO P-DRG-EST-300011. N POSITIONS REFER TO DRAWING 5-30002. AGE TO BE 225mm DIA, FULLY RAPPED IN GEOTEXTILE. SURROUND TO BE DNE. BE APPLIED TO LIGHTING, CCTV AND PA O BE AGREED WITH NETWORK RAIL SIGN STAGE
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	ARU	63 St Thomas Street Bristol BS1 6JZ Tel +44(0)117 976 5432 Fax +44(0)117 976 5433 www.arup.com
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NG THE FORMATION OF THE EAST S THE SITE. THE PRECISE POSITIONS ONTRACTOR PRIOR TO ANY	Designed T. MYNORS Drawn J. BACINSKI Checked R. SNELL	Signed Date 22/07/19 Signed Date 22/07/19 Signed Date 22/07/19 Signed Date 22/07/19
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	Drawing Number W1097B-ARP-[DRG-EST-300013 A01 Sheet Size A1 594 x 84

Legend/Notes

OTHERWISE.

ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS STATED

SURVEYS UNDERTAKEN BY SEVERN PARTNERSHIP LTD. IN 2015.

4. THE PROPOSED RAIL ALIGNMENT IS SUBJECT TO VARIATION, AS

ALL LEVELS ARE IN METRES ABOVE SNAKE GRID RBEPP12

. THIS DRAWING IS BASED ON TOPOGRAPHICAL AND LIDAR

(ORDNANCE DATUM + 100 METRES).

SECTION 5 - (REFER TO DRAWING W1097B-ARP-DRG-EST-300011) SCALE 1:50

0 SCALE 1:50 (🔥 SAFETY, HEALTH AND ENVIR IN ADDITION TO THE HAZARDS NORMALLY ASS OF WORK, SPECIAL ATTENTION SHOULD BE GI i) THE EXISTING CUTTING SLOPES MAY BE U ii) UNSAFE STRUCTURES MAY BE PRESENT iii) NO INFORMATION IS AVAILABLE REGARDIN WALLS. iv) BURIED SERVICES ARE PRESENT ACROSS OF THESE ARE TO BE VERIFIED BY THE COI CONSTRUCTION WORKS COMMENCING. v) ELEVATED LEVELS OF CONTAMINANTS, INT HAZARDOUS SUBSTANCES MAY BE PRESE vi) THERE IS LIMITED TOPOGRAPHIC SURVEY FORM 001 DESIGN IS BASED ON INTEPRET TOPOGRAPHIC SURVEY REQUIRED PRIOR

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	Contractor(s) ARUP Project	63 St Thomas Street Bristol BS1 6JZ Tel +44(0)117 976 5432 Fax +44(0)117 976 5433 www.arup.com		
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NG THE FORMATION OF THE EAST	Designed T. MYNORS	Signed Date 22/07/19 Signed Date 20/07/19		
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Legend/Notes

OTHERWISE.

ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS STATED

2. ALL LEVELS ARE IN METRES ABOVE SNAKE GRID RBEPP12

3. THIS DRAWING IS BASED ON TOPOGRAPHICAL AND LIDAR

(ORDNANCE DATUM + 100 METRES).

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	Checked R. SNELL Approved R. SNELL	Signed Date 22/07/18 Signed Date 22/07/18
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TION OF LIDAR DATA. FULL O DETAILED DESIGN.	Drawing Number	1 of 1 Revision
	W1097B-ARP-DRG	-EST-300015 A01

Legend/Notes

Sheet Size A1 594 x 841

