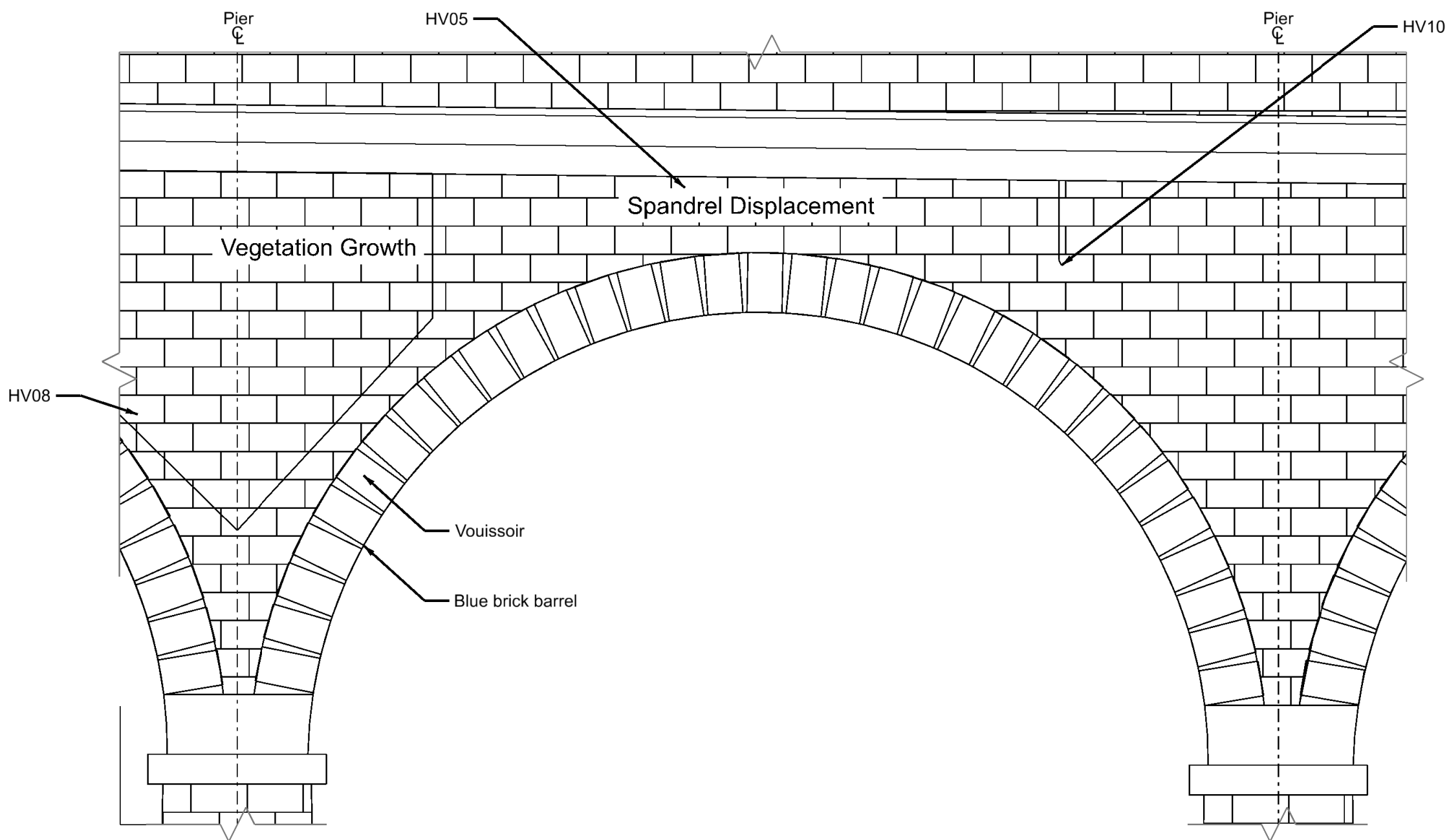
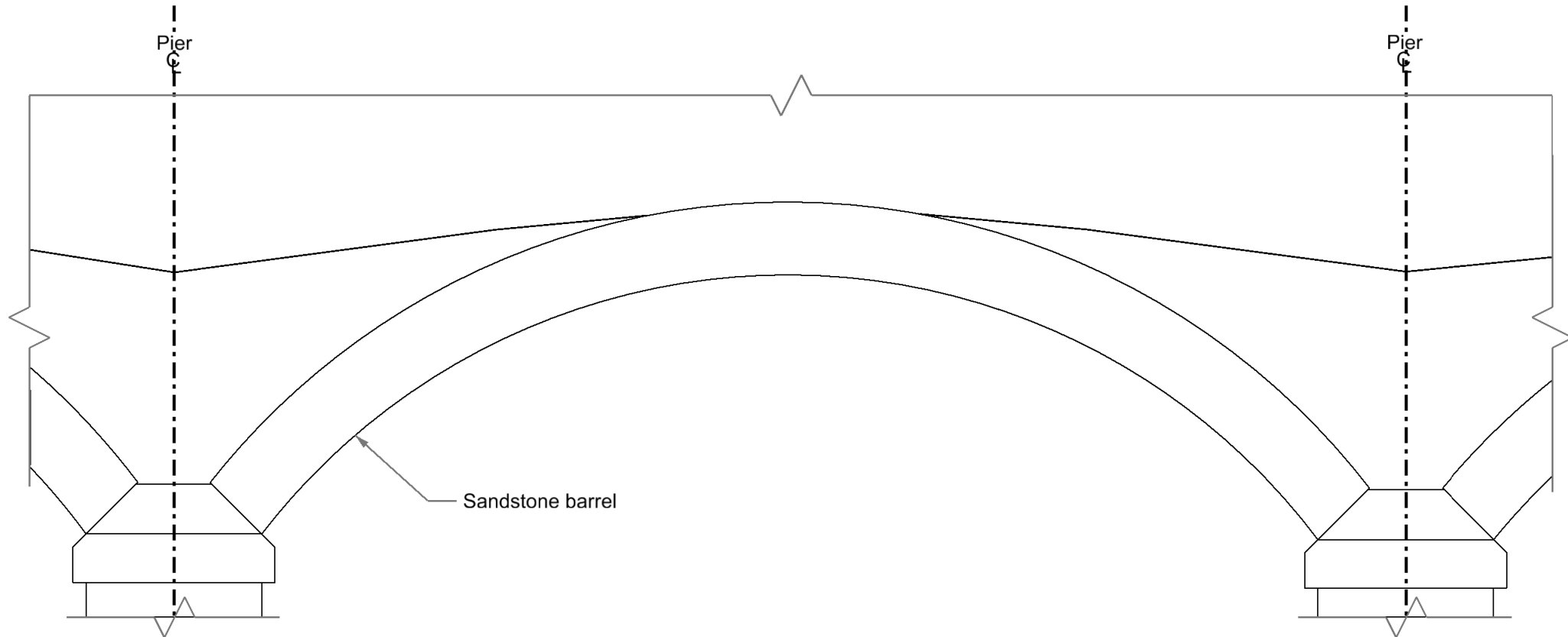


Typical Defects

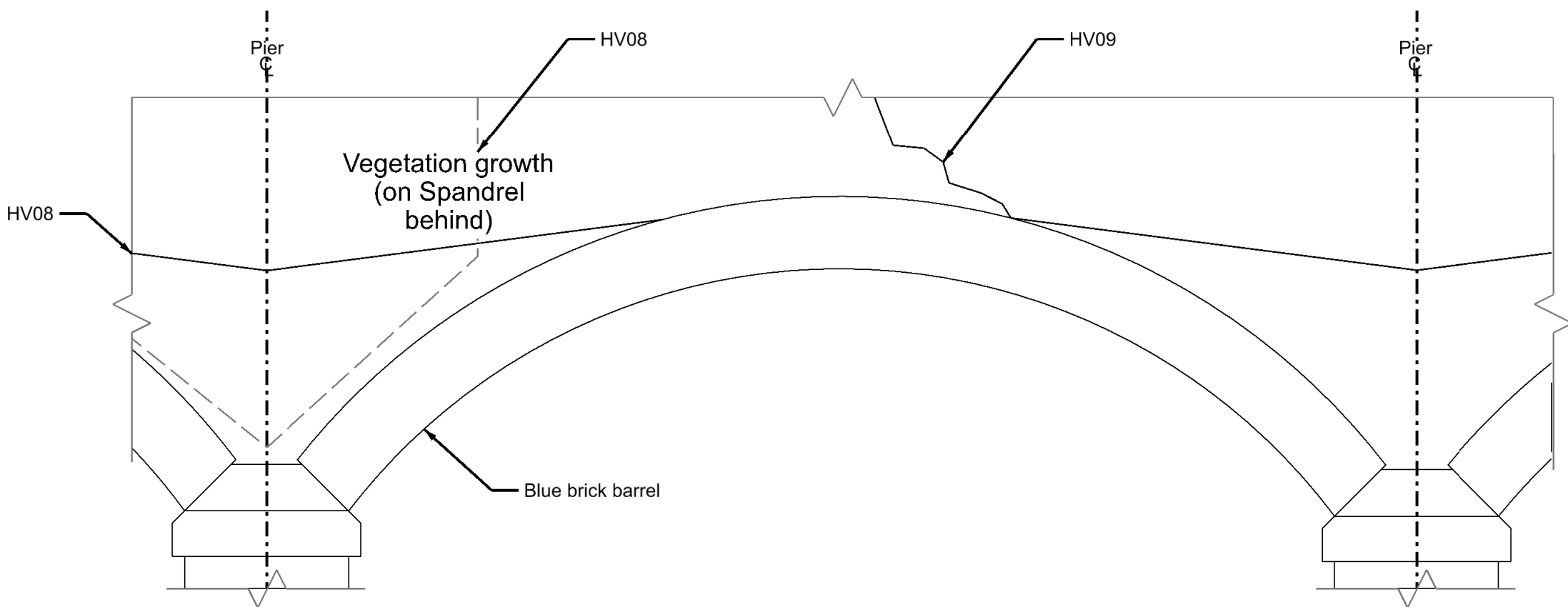
Defect Code	Type	Fracture Type	Repair Detail	Comments	Value	Unit	Action
HV01	Spall		NR/CIV/SD/101	Isolated spall up to 150 mm deep	2	m ²	Replace effected bricks
HV02	Mortar Loss		NR/CIV/SD/101	Mortar loss up to 90 mm deep	14	m	Repoint joints
HV03	Hollow		NR/CIV/SD/101	Brickwork hollow to hammer	6	m ²	Replace bricks and tie arch rings
HV04	Open Joints		NR/CIV/SD/101	Open joints around construction joint	14	m	Repoint
HV05	Displacement			Parts of spandrel pushed out	1	m ²	See separate spandrel wall design submission
HV06	Calcite Deposit			Throughout viaduct	20	m ²	Cleaning
HV07	Water Penetration			Throughout viaduct, generally under backing	15	m ²	Clear drains
HV08	Vegetation			Vegetation on piers and spandrels	3	m ²	Clear vegetation
HV09	Diagonal Fracture	Shear	NR/CIV/SD/101	Step Fracture in parapet	0.5	m	Stitch fracture and add date tabs
HV10	Vertical Fracture	Shear	NR/CIV/SD/101	Step Fracture in parapet	0.4	m	Stitch fracture and add date tabs
HV11	Horizontal Fracture	Shear	NR/CIV/SD/101	Retaining wall at HM abutment has settled	8	m	Stitch fracture and add date tabs
HV12	Longitudinal Fracture	Rotation	NR/CIV/SD/101	Longitudinal cracks at interface between barrel and voussoir	14	m	N/A



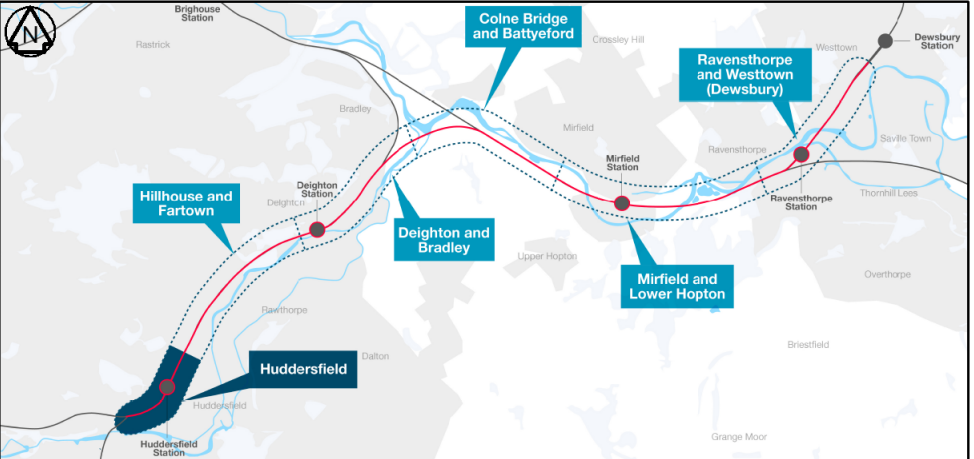
Typical East Arch Elevation



Typical Centre Arch Longitudinal Section



Typical West Arch Longitudinal Section



Legend

Listed Building Consent Application Boundary

- Notes
- All dimensions are in millimetres unless stated otherwise.
 - Do not scale from this drawing.
 - In constructing or maintaining the works identified as Scheduled Works in Schedule 1 of the Network Rail (Huddersfield to Westtown (Dewsbury) Improvements) Order Network Rail may deviate from the dimensions shown on this drawing to the extent permitted by the Order.
 - Overhead Line Equipment wires omitted for clarity.
 - This drawing is to be read in conjunction with drawings 151667-TSA-30-MVL3-DRG-T-LP-163100 to 151667-TSA-30-MVL3-DRG-T-LP-163115 and drawing 151667-TSA-30-MVL3-DRG-T-LP-163119.



THE NETWORK RAIL (HUDDERSFIELD TO WESTTOWN (DEWSBURY) IMPROVEMENTS) ORDER

P01	15/03/21	First Issue	DW	RF	GT
Rev	Date	Description of Revisions	Drawn	Chkd	Appr
Status	Date	Description of Revisions	Drawn	Chkd	Appr

Fit for Contractor Design

D3



Authorised T.Rivero Signed Electronically Signed Date 2021/03/15

Contractor(s) TRU West Alliance

Location STALYBRIDGE STN - HEATON LODGE JN (HUDD-MANC LINE)

Type	CAD Drawing	Sub-type	Detail
Role	Town and Country Planner	Sub-Role	General
Zone	Huddersfield		
Phasing	Existing	Grip Stage	0
Project			

Transpennine Route Upgrade

Contract No. 151667

Contract Title West of Leeds

Listed Building Consent Drawing
Huddersfield Viaduct MVL3/92
Typical Arch Repair Details

Designed	M.Colman	Signed	Electronically Signed	Date	15/03/21
Drawn	D.Wilcox	Signed	Electronically Signed	Date	15/03/21
Checked	R.Fletcher	Signed	Electronically Signed	Date	15/03/21
Approved	G.Thomas	Signed	Electronically Signed	Date	15/03/21

Scale(s) As Shown ELR & Mileage 25.1504 to 0

Alternative Reference 1 of 1

Drawing Number 151667-TSA-30-MVL3-DRG-T-LP-163118 P01