



**Key:**

- Viaduct Carrier Drain
- Grassed Swale (Lined)
- Viaduct Abutment Drainage
- Existing Drainage To Be Retained
- Connection to A47 Drainage
- Proposed Pre Earthworks Ditch (PED)
- Highways Ditch
- Existing Ditch
- Lined Ditch/Swale
- Proposed Culvert/Piped Ditch
- Badger Culvert
- Inlet/Outlet Headwall (Type 2 Unless Otherwise Stated)
- Check Dam in Ditch
- Flood Compensation Area
- Flood Zone 3A
- Surface Water Flooding (1 in 100 Year)
- Vegetated MSE Bagwork
- PCV
- Pollution Control Valve
- C - Culvert/Piped Ditch
- X - Outfall Number (1-15)
- Y - Size (A - 0.3m, B - 0.45m, C - 0.75m, D - 0.9m)
- Z - Culvert Reference
- D - Ditch Type (D - Pre-Earthworks, H - Highways)
- X - Outfall Number (1-15)
- Y - Ditch Size (A - 0.3m, B - 0.45m, C - 0.6m D - 0.75m, E - 1.0m)
- Z - Ditch Reference



- Notes:**
- Do not scale from this drawing.
  - All dimensions are in metres unless otherwise stated.
  - This drawing is to be read with all other relevant drawings and reports.
  - All works to be in accordance with the Specification for Highway Works.
  - These drawings supplement 4.04.00 PK1002-RAM-HDG-MLE-SG-DZ-0001 Drainage Strategy Report.
  - For planting and amenity arrangements, refer to 2.07.00 Landscaping Design Plans PK1002-RAM-ELS-MLE-DR-NZ-0001 To 0011.
  - For drainage details, refer to 2.08.04 Drainage Typical Details PK1002-RAM-HDG-MLE-DE-DZ-0001 to 0006.
  - Please refer to 3.03.00 Environmental Statement Chapter 3: Description of Scheme for the Rochdale Envelope flexibility included within the design for the purposes of Environmental Impact Assessment.
  - This drawing is for planning application purposes only, it is not a construction issue drawing.

**Key:**

- Red Line Boundary
- Proposed Drainage Basin
- Existing Watercourse
- Retaining Wall
- Surface Water Manhole (HCD F3-F6)
- Catchpit (HCD F11)
- Proposed Gully (HCD F13)
- Inline Outlet to Triangular Surface Water Channel (HCD F22) (1/2/3 Chambers Depending on Requirements)
- Inline Outlet to Trapezoidal Surface Water Channel (HCD F23) (2/3 Chambers Depending on Requirements)
- Catchpit (HCD F12)
- Flow Control Chamber
- Proposed Combined Kerb Drainage Outlet/Access Point
- Existing Manhole To Be Retained
- Surface Water Carrier Drain
- Proposed Combined Filter/Carrier Drain (HCD F2 Type H)
- Combined Kerb Drainage (HCD B16 Type 25A Class E600)
- Proposed 100mm dia narrow filter drain (HCD F18)
- Proposed Gully Lead
- Concrete Surface Water Channel (HCD B14, type A)
- Grip Overflow

Mapping reproduced by permission of Ordnance Survey on behalf of HMSO.  
 © Crown copyright and database rights 2024 Ordnance Survey 100019340.

A1 - Authorised for Planning

REVISION	AJ	KJ	SS	08/02/24
DRAWN				
CHECKED				
APPROVED				
DATE				

**CLIENT**

**Norfolk County Council**  
 Grahame Bygrave  
 Interim Executive Director of  
 Community and Environmental Services  
 Norfolk County Council  
 County Hall, Martineau Lane  
 Norwich NR1 2SG

**PROJECT**

Norfolk Western Link  
 ferrovial construction  
 RAMBOLL

**DRAWING TITLE**

NORWICH WESTERN LINK  
 DRAINAGE LAYOUT  
 SHEET 8 OF 10

**DRAWING STATUS**

A1 - AUTHORISED FOR PLANNING

DRAWN	CHECKED	APPROVED	AUTHORISED
AJ	KJ	SS	FQC

SCALE @ A1 SIZE	DATE	REVISION
1:1000	08/02/24	C01

**DRAWING NUMBER**

PK1002-RAM-HDG-MLE-DR-DZ-0510

Catchment 5 (MLS) Manhole Schedule			Catchment 5 (MLS) Manhole Schedule (contd.)			Catchment 5 (MLS) Manhole Schedule (contd.)		
MH Reference	Cover Level (m)	Invert Level (m)	MH Reference	Cover Level (m)	Invert Level (m)	MH Reference	Cover Level (m)	Invert Level (m)
MLS-07	54.18	52.75	MLS-35	MODELLING NODE		MLS-56	46.31	45.11
MLS-08	54.61	52.45	MLS-36	MODELLING NODE		MLS-57	46.63	44.63
MLS-09A	54.25	52.83	MLS-37	MODELLING NODE		MLS-58	MODELLING NODE	
MLS-10	MODELLING NODE		MLS-38	MODELLING NODE		MLS-59	MODELLING NODE	
MLS-11	MODELLING NODE		MLS-39	MODELLING NODE		MLS-60	MODELLING NODE	
MLS-12	MODELLING NODE		MLS-40	50.60	49.10	MLS-61	49.05	47.62
MLS-13	52.49	51.42	MLS-41	MODELLING NODE		MLS-62	49.39	47.57
MLS-14	53.22	51.37	MLS-42	MODELLING NODE		MLS-63	MODELLING NODE	
MLS-15	MODELLING NODE		MLS-43	51.45	49.05	MLS-64	MODELLING NODE	
MLS-16	MODELLING NODE		MLS-44	51.59	48.94	MLS-65	49.41	47.47
MLS-23	54.48	52.90	MLS-45	50.01	48.29	MLS-66	44.51	42.78
MLS-24	53.47	51.89	MLS-46	MODELLING NODE		MLS-67	MODELLING NODE	
MLS-25	53.22	51.82	MLS-47	49.98	48.96	MLS-68	44.48	43.28
MLS-26	53.61	51.12	MLS-48	50.33	48.17	MLS-69	44.77	42.50
MLS-27	MODELLING NODE		MLS-49	MODELLING NODE		MLS-70	MODELLING NODE	
MLS-28	MODELLING NODE		MLS-50	48.13	46.63	MLS-71	MODELLING NODE	
MLS-29	MODELLING NODE		MLS-51	48.48	46.25	MLS-72	MODELLING NODE	
MLS-30	52.02	50.66	MLS-52	MODELLING NODE		MLS-73	MODELLING NODE	
MLS-31	52.18	50.13	MLS-53	MODELLING NODE		MLS-74	MODELLING NODE	
MLS-32	MODELLING NODE		MLS-54	46.33	45.03			
MLS-33	MODELLING NODE		MLS-55	MODELLING NODE				
MLS-34	MODELLING NODE							

Modelling nodes identified in schedule are not physical chambers and are not shown in drawing

Piped Ditches - Outfall 11			
Reference	Length	U/S IL	D/S IL
C-13 A-1.000	35.84	47.71	45.95

  

Piped Ditches - Outfall 13			
Reference	Length	U/S IL	D/S IL
C-13 A-1.000	7.79	54.33	54.07
C-13 A-2.000	38.66	54.28	53.50
C-13 A-3.000	12.39	44.61	44.48

