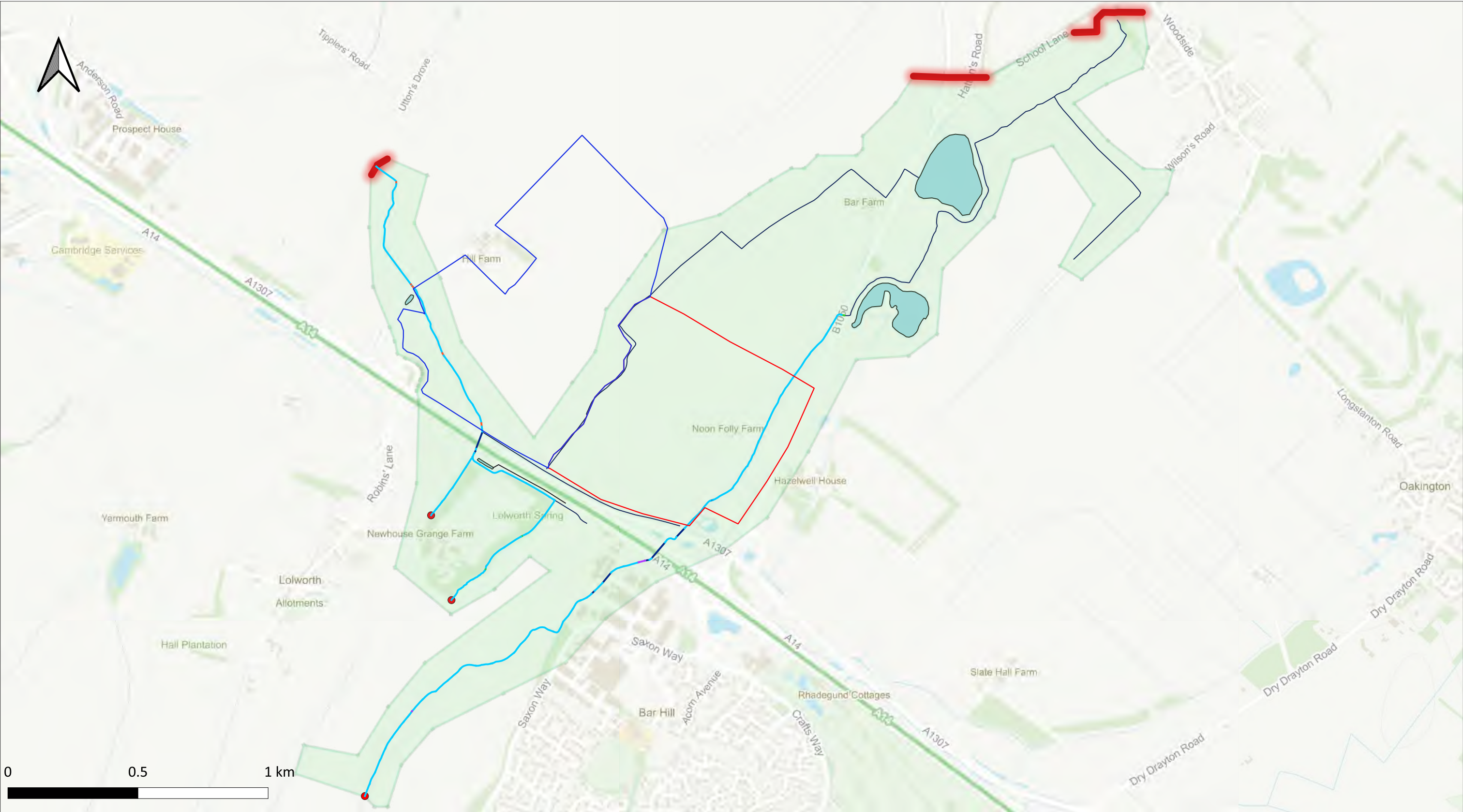


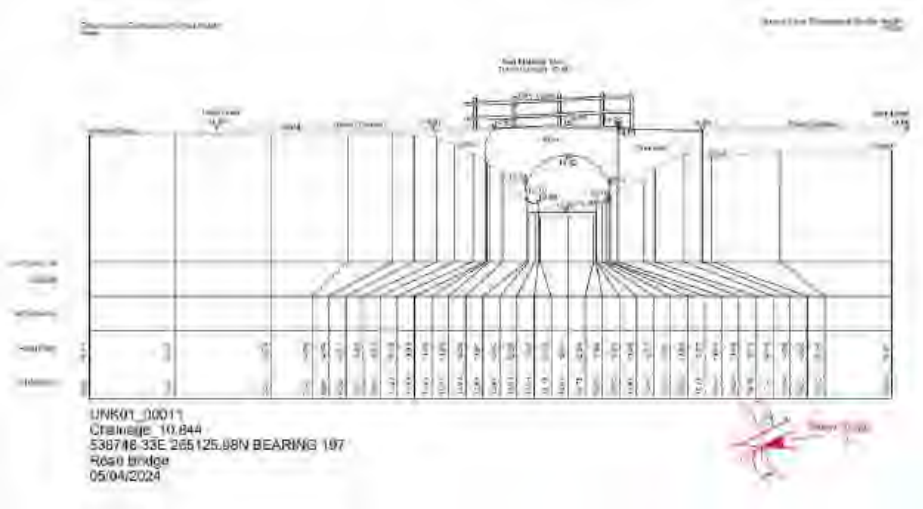
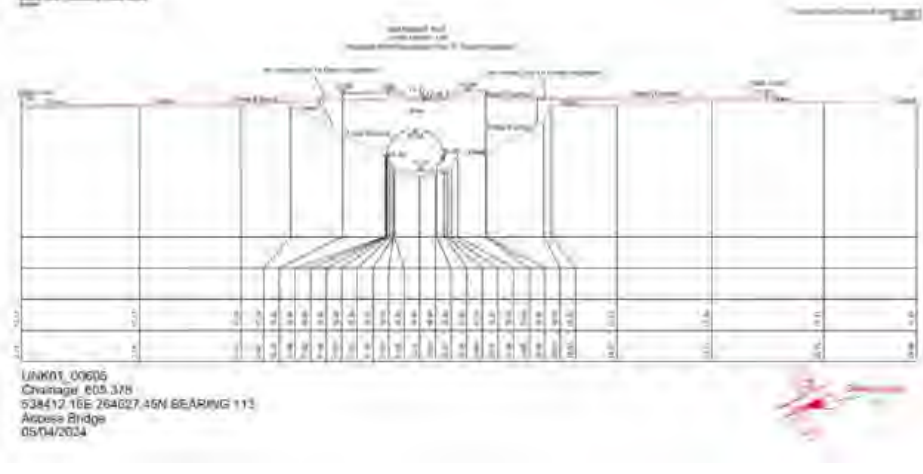
Appendix B Model Schematic

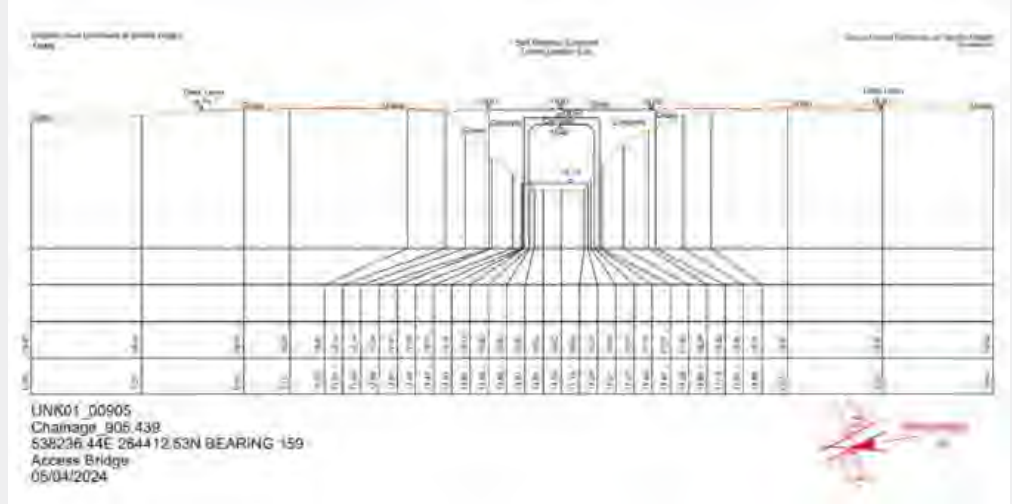
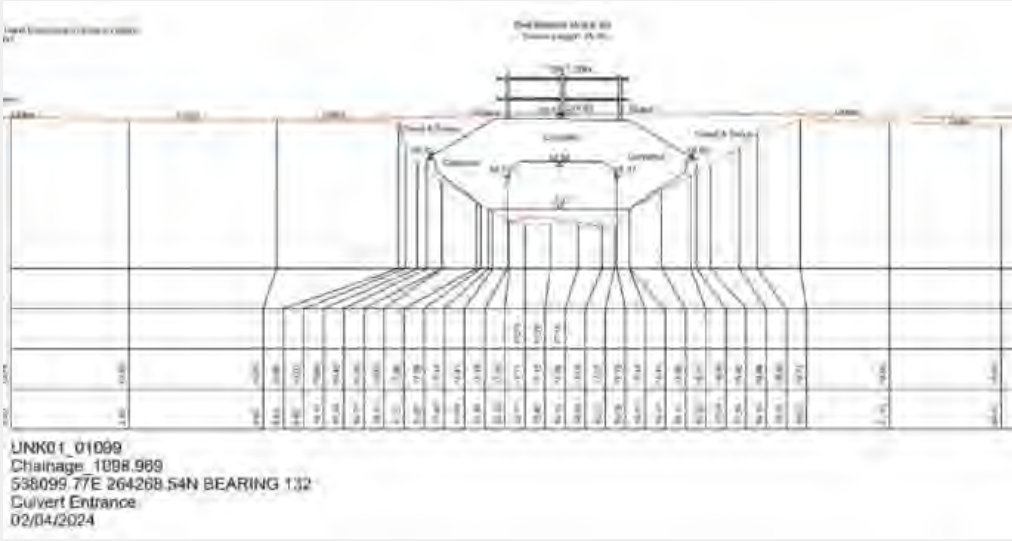


Legend 1D Channel Extent Bridge Structure Circular Culvert Irregular Shaped Culvert Rectangular Culvert Open Channel Weir Structure 2D Channel Extent Active Area QT Boundaries 2D HQ Boundary Initial Water Level	NOTES Based on draft Hydrock baseline model (not yet peer reviewed) Contains OS Zoomstack Mapping Crown Copyright © (2024)	REVISIONS DRAFT				Hydrock now Stantec Over Court Barns, Over Lane, Almondsbury, Bristol, BS32 4DF t. +44(0) 1454 619533 e. bristol@hydrock.com	TITLE Model Schematic		
						HYDROCK PROJECT NO. 31188	SCALE @ A3 1:14,049.375		
		P01	FIRST ISSUE			CLIENT Tritax Big Box Developments		PURPOSE OF ISSUE SUITABLE FOR INFORMATION	
		REV.	REVISION NOTES/COMMENTS			PROJECT A14 Corridor, South Cambridgeshire		DRAWING NO. 31188-HYD-XX-XX-DR-WENV-0010	REVISION P01
		DRAWN N/A	CHECKED N/A	APPROVED N/A	DATE N/A				

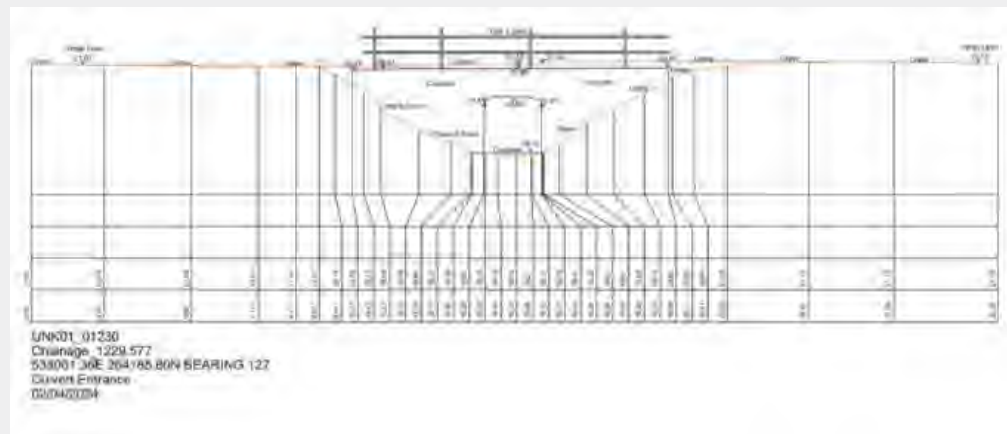
Appendix C Hydraulic Structure Information

1. Hydraulic Structures - 24HD0022200_DCS_UNK01

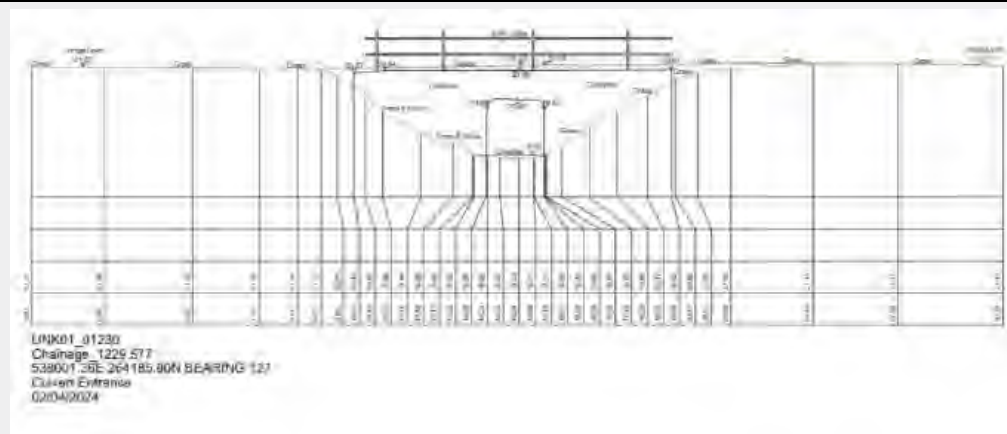
Model Details		Watercourse Survey Excerpt
Network ID	UNK01_00011C	
Type	"I" - Irregular Shaped Culvert	
Length	10.9m	
Height / Width	Provided in HW Table	
Upstream Invert	12.31m AOD	
Downstream Invert	11.95m AOD	
Spill/Bypass Method	1D Weir using WW	
Manning's n value	0.015	
Losses	Default TUFLOW losses applied	
Network ID	UNK01_00605HW	
Type	"I" - Irregular Shaped Culvert	
Length	4.6m	
Height / Width	Provided in HW Table	
Upstream Invert	14.95m AOD	
Downstream Invert	14.91m AOD	
Spill/Bypass Method	Automatic 1D Weir	
Manning's n value	0.015	
Losses	Default TUFLOW losses applied	

Network ID	UNK01_00905C	
Type	"R" - Rectangular Shaped Culvert	
Length	8.30m	
Width	1.80m	
Height	1.78m	
Upstream Invert	16.62m AOD	
Downstream Invert	16.64m AOD	
Spill/Bypass Method	1D Weir using W/W	
Manning's n value	0.012	
Losses	Default TUFLOW losses applied	
Network ID	UNK01_01099C	
Type	"R" - Rectangular Shaped Culvert	
Length	45.90m	
Width	2.70m	
Height	1.62m	
Upstream Invert	17.04m AOD	
Downstream Invert	16.51m AOD	
Spill/Bypass Method	2D Spill using HX link	
Manning's n value	0.012	
Losses	Default TUFLOW losses applied	
Network ID	UNK01_01230C	

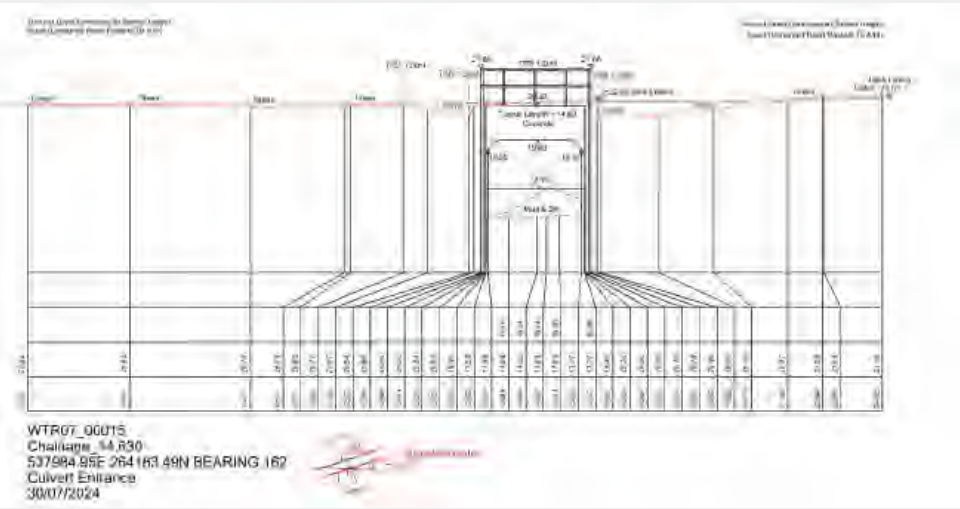
Type	"R" - Rectangular Shaped Culvert
Length	80.50m
Width	1.79m
Height	1.84m
Upstream Invert	18.21m AOD
Downstream Invert	17.83m AOD
Spill/Bypass Method	2D Spill using HX links
Manning's n value	0.011
Losses	Default TUFLOW losses applied

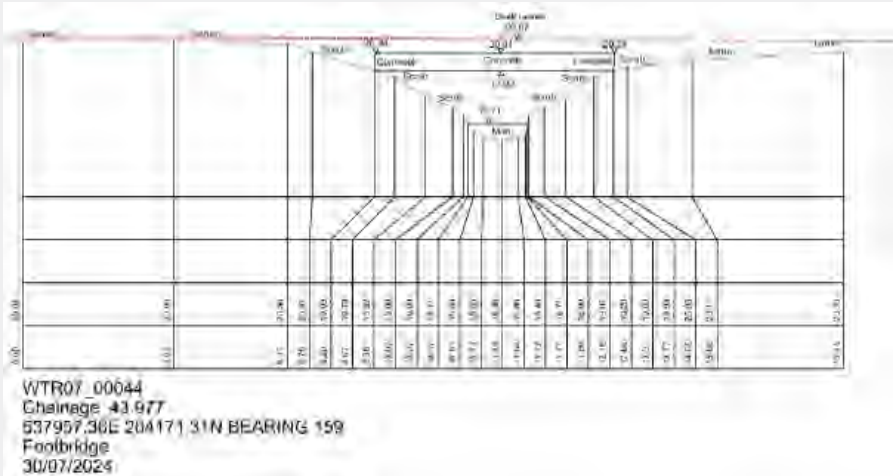
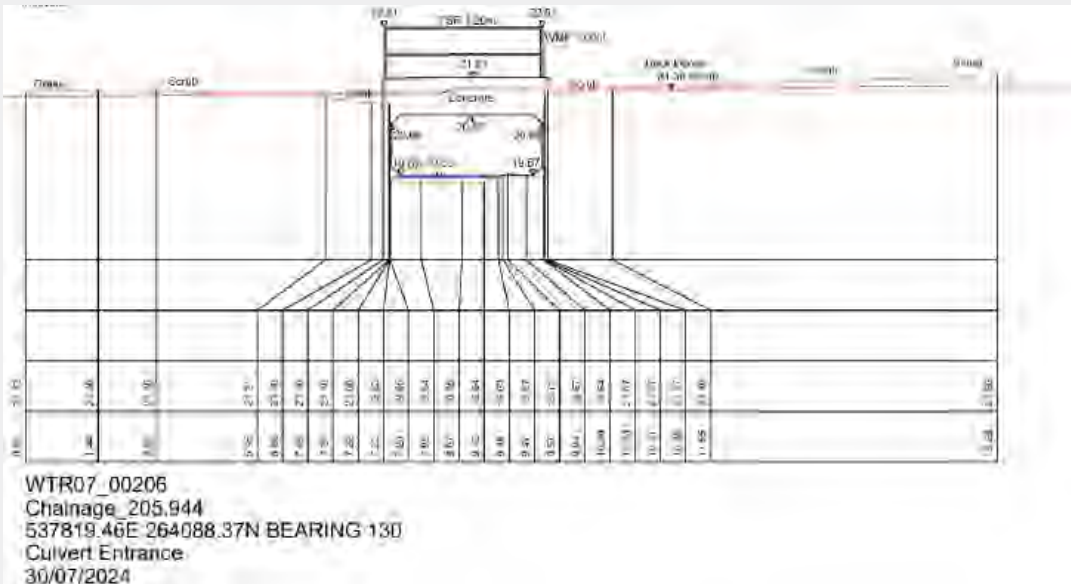


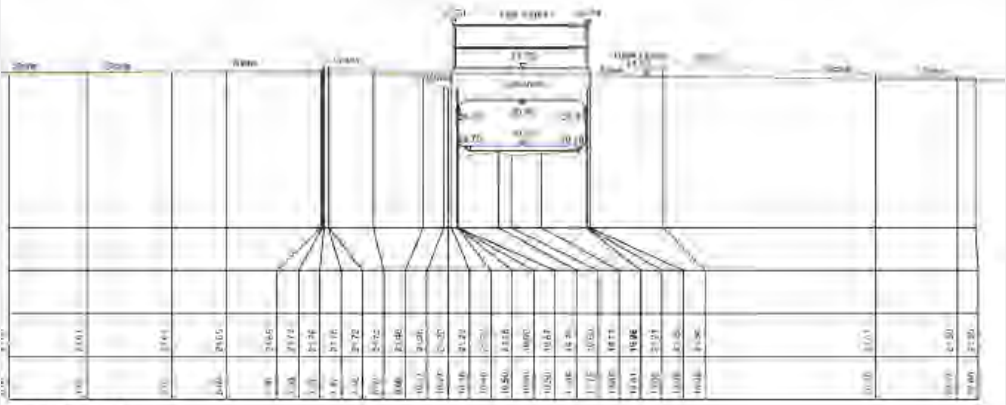
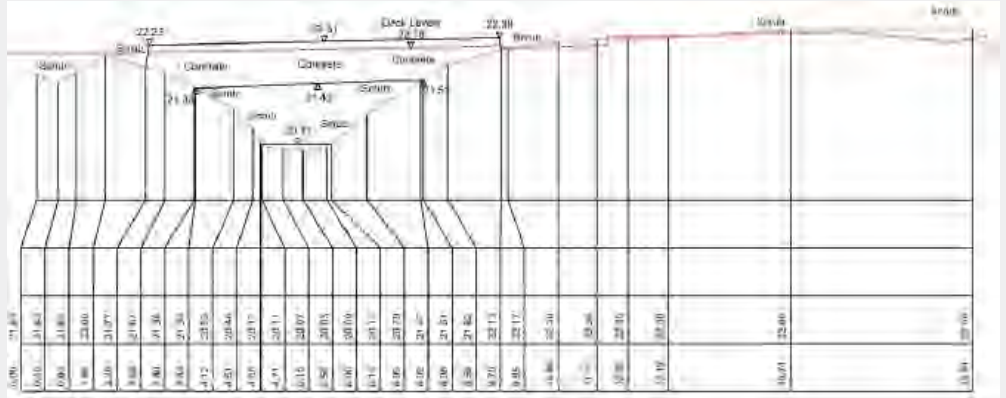
Network ID	UNK01_01230CI
Type	"R" - Rectangular Shaped Culvert
Length	80.50m
Width	1.79m
Height	1.84m
Upstream Invert	18.21m AOD
Downstream Invert	17.83m AOD
Spill/Bypass Method	2D Spill using HX links
Manning's n value	0.011
Losses	Default TUFLOW losses applied



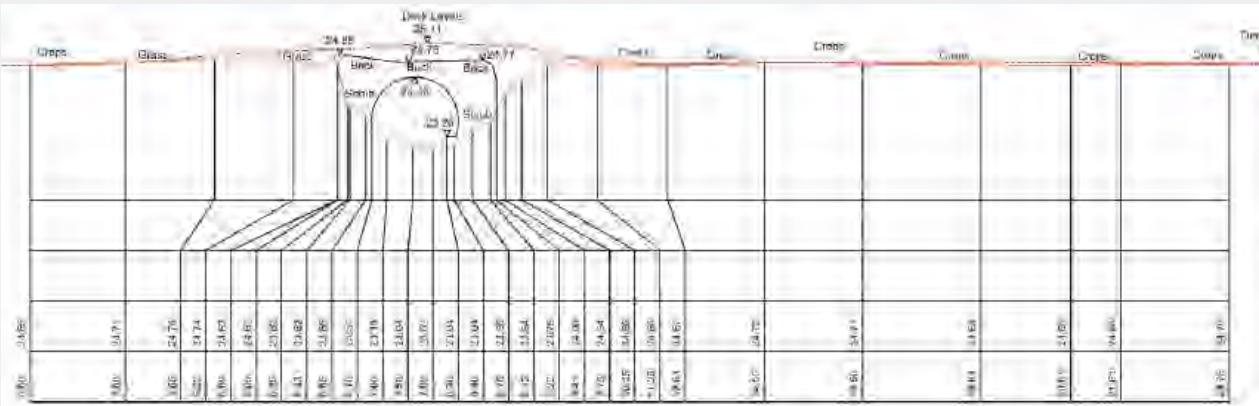
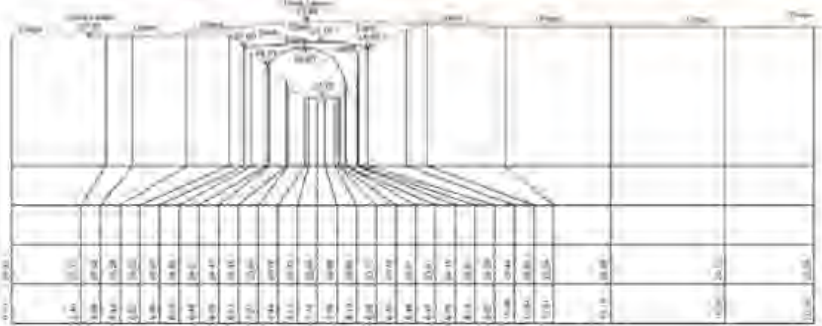
2. Hydraulic Structures - 2750_DPP_WTR07

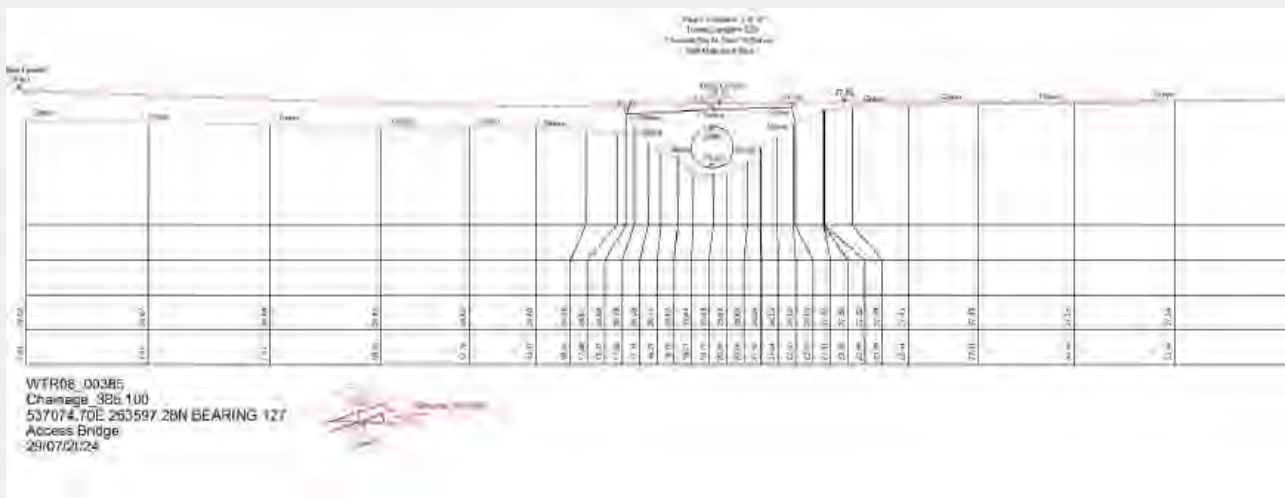
Model Details		Watercourse Survey Excerpt
Network ID	WTR07_00015C	 WTR07_00015C Challenge - 14.830 537584.95E 264163.49N BEARING 167 Culvert Entrance 30/07/2024
Type	"R" - Rectangular Shaped Culvert	
Length	14.60m	
Width	2.69m	
Height	2.24m	
Upstream Invert	17.59m AOD	
Downstream Invert	17.78m AOD	
Spill/Bypass Method	1D Weir	
Manning's n value	0.012	
Losses	Default TUFLOW losses applied	
Network ID	WTR07_00044B	
Type	"R" - Rectangular Shaped Culvert Modelled as a "R" type culvert to simplify structure to resolve instabilities.	
Length	3.40m	
Width	2.62m	
Height	1.57m	
Upstream Invert	18.36m AOD	

Downstream Invert	18.49m AOD	 WTR07_00044 Chainage 41.977 537957.36E 204171.31N BEARING 159 Footbridge 30/07/2024
Spill/Bypass Method	1D Weir	
Manning's n value	0.03	
Losses	Default TUFLOW losses applied	
Network ID	WTR07_00206	 WTR07_00206 Chainage 205.944 537819.46E 264088.37N BEARING 130 Culvert Entrance 30/07/2024
Type	"R" - Rectangular Shaped Culvert	
Length	50.10m	
Width	3.00m	
Height	1.20m	
Upstream Invert	19.67m AOD	
Downstream Invert	19.48m AOD	
Spill/Bypass Method	2D Weir using HX links	
Manning's n value	0.012	
Losses	Default TUFLOW losses applied	
Network ID	WTR07_00264C	
Type	"R" - Rectangular Shaped Culvert	

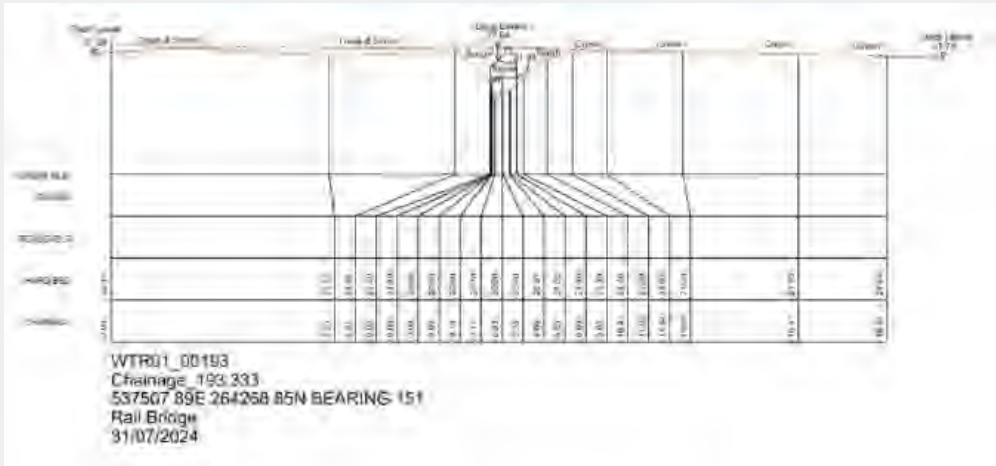
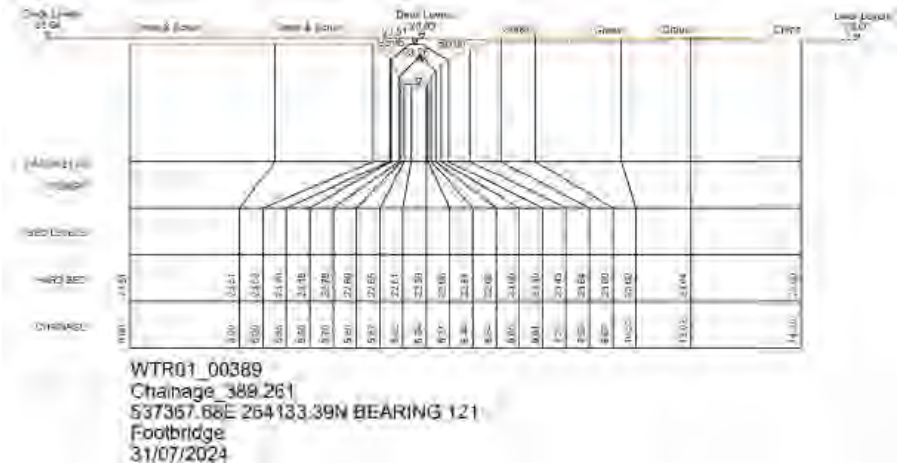
Length	16.20m	 WTR07_00264 Chainage 264.050 537776.55E 264050.69N BEARING 137 Culvert Entrance 30/07/2024
Width	3.00m	
Height	1.20m	
Upstream Invert	19.79m AOD	
Downstream Invert	19.79m AOD	
Spill/Bypass Method	2D Weir using HX links	
Manning's n value	0.012	
Losses	Default TUFLOW losses applied	
Network ID	WTR07_00318B	 WTR07_00318 Chainage 318.253 537736.13E 264021.64N BEARING 161 Footbridge 30/07/2024
Type	"I" - Irregular Shaped Culvert	
Length	3.37m	
Width		
Height		
Upstream Invert	20.03m AOD	
Downstream Invert	19.71m AOD	
Spill/Bypass Method	1D Weir	
Manning's n value	0.03	
Losses	Default TUFLOW losses applied	

3. Hydraulic Structures - 2750_DPP_WTR08

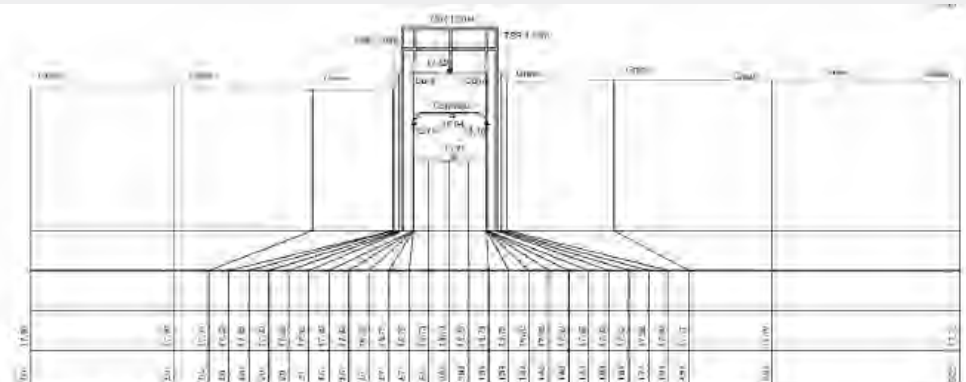
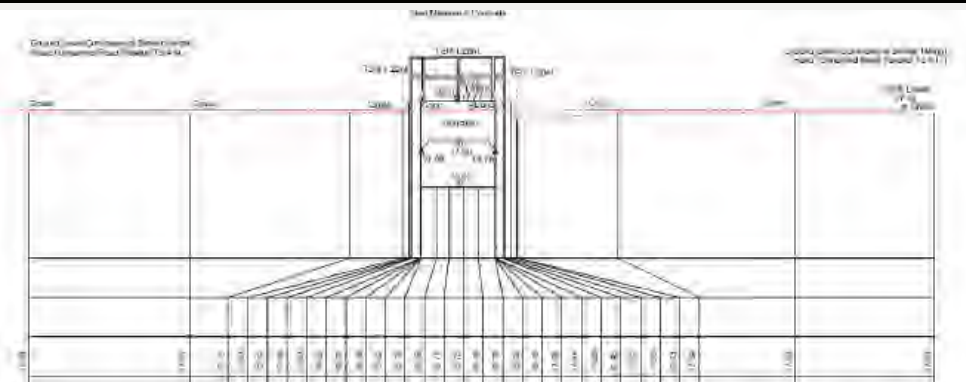
Model Details		Watercourse Survey Excerpt
Network ID	WTR08_00005 C	 WTR08_00005 Chainage 4.995 537395.34E 263770.79N BEARING 165 Access Bridge 29/07/2024
Type	"I" - Irregular Shaped Culvert	
Length	4.95m	
Height / Width	Provided in HW Table	
Upstream Invert	23.02m AOD	
Downstream Invert	22.93m AOD	
Spill/Bypass Method	1D Weir	
Manning's n value	0.015	
Losses	Default TUFLOW losses applied	
Network ID	WTR08_00131C	 WTR08_00131 Chainage 130.826 537272.20E 263756.50N BEARING 138 Access Bridge 29/07/2024
Type	"I" - Irregular Shaped Culvert	
Length	4.25m	
Height / Width	Provided in HW Table	
Upstream Invert	23.66m AOD	
Downstream Invert	23.62m AOD	
Spill/Bypass Method	1D Weir	
Manning's n value	0.015	

Losses	Default TUFLOW losses applied	
Network ID	WTR08_00385C	
Type	"C" - Circular Shaped Culvert	
Length	5.09m	
Diameter	1.20m	
Upstream Invert	25.64m AOD	
Downstream Invert	25.79m AOD	
Spill/Bypass Method	1D Weir	
Manning's n value	0.011	
Losses	Default TUFLOW losses applied	

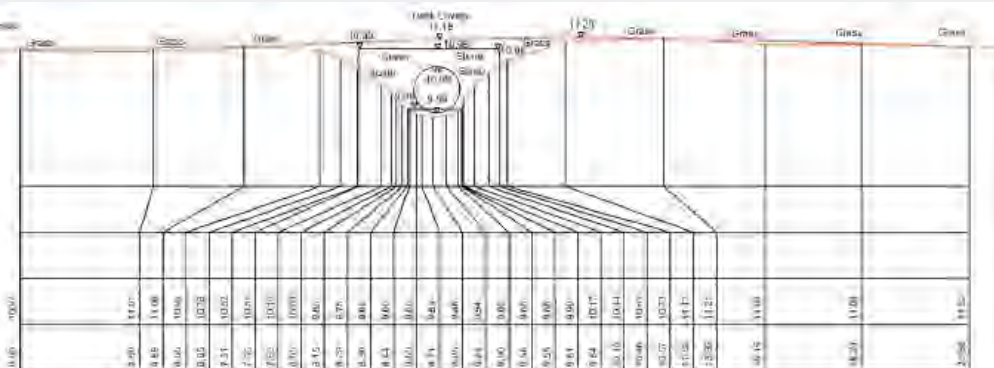
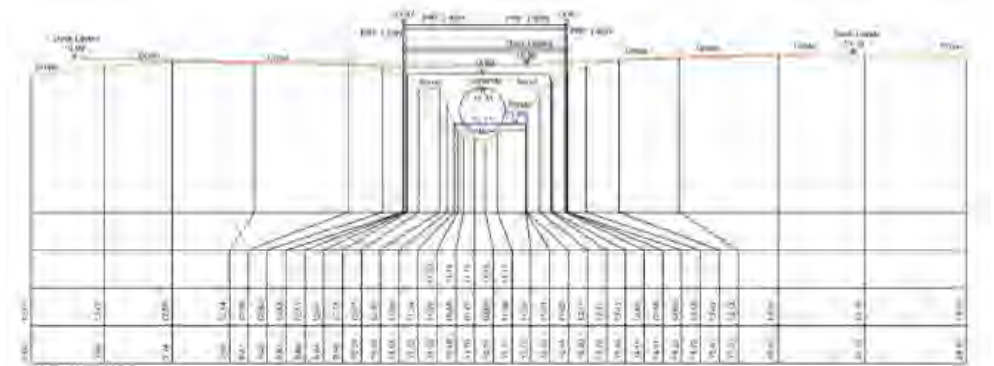
4. Hydraulic Structures - 2750_DPP_WTR01

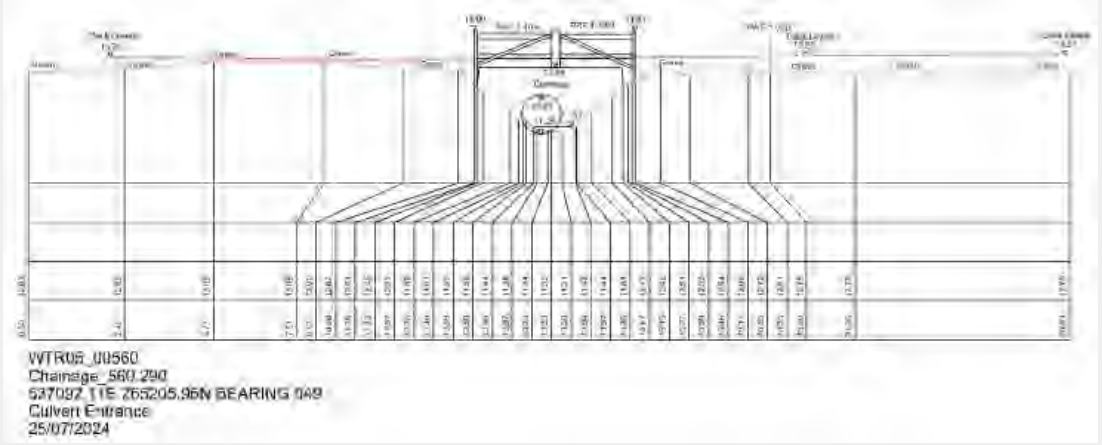
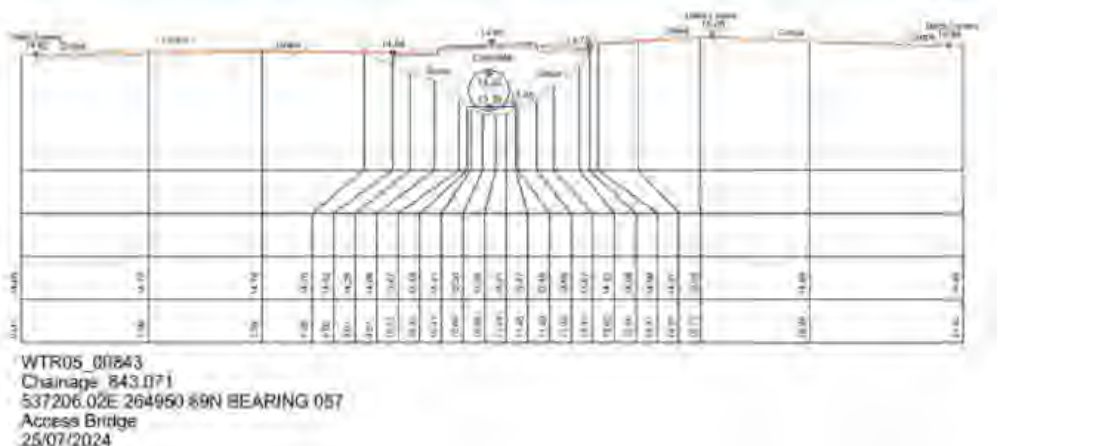
Model Details		Watercourse Survey Excerpt
Network ID	WTR01_00193C	
Type	"I" - Irregular Shaped Culvert	
Length	4.03m	
Height / Width	Provided in HW Table	
Upstream Invert	2079m AOD	
Downstream Invert	20.70m AOD	
Spill/Bypass Method	1D Weir	
Manning's n value	0.015	
Losses	Default TUFLOW losses applied	
Network ID	WTR01_00384C	
Type	"I" - Irregular Shaped Culvert	
Length	4.70m	
Height / Width	Provided in HW Table	
Upstream Invert	22.59m AOD	
Downstream Invert	22.46m AOD	
Spill/Bypass Method	1D Weir	
Manning's n value	0.015	
Losses	Default TUFLOW losses applied	

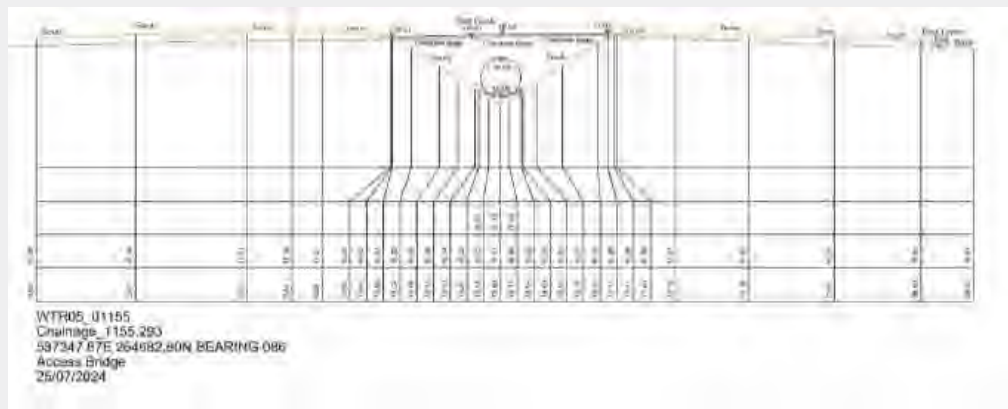
5. Hydraulic Structures - WTR03

Model Details		Watercourse Survey Excerpt
Network ID	WTR03_00062C	 WTR03_00062C Chainage 81.849 537329.04E 264602.47N BEARING 111 Culvert Entrance 31/07/2024
Type	"R" - Rectangular Shaped Culvert	
Length	62.00m	
Width	1.82m	
Height	1.21m	
Upstream Invert	15.73m AOD	
Downstream Invert	15.42m AOD	
Spill/Bypass Method	2D Weirs using HX links	 WTR03_00079C Chainage 79.437 537323.87E 264588.34N BEARING 121 Culvert Entrance 31/07/2024
Network ID	WTR03_00079C	
Type	"R" - Rectangular Shaped Culvert	
Length	6.94m	
Width	1.89m	
Height	1.23m	
Upstream Invert	15.77m AOD	
Downstream Invert	15.68m AOD	
Spill/Bypass Method	1D Weir	
Manning's n value	0.015	
Losses	Default TUFLOW losses applied	

6. Hydraulic Structures - 2750_DPP_WTR05

Model Details		Watercourse Survey Excerpt
Network ID	WTR05_00108C	 WTR05_00108C Chainage: 107.878 537023.79E 265615.46N BEARING 091 Access Bridge 25/07/2024
Type	"C" - Circular Shaped Culvert	
Length	7.56m	
Diameter	1.00m	
Upstream Invert	9.59m AOD	
Downstream Invert	9.53m AOD	
Spill/Bypass Method	1D Weir	
Manning's n value	0.011	 WTR05_00547C Chainage: 547.025 537084.47E 265217.00N BEARING 050 Culvert Entrance 25/07/2024
Losses	Default TUFLOW losses applied	
Network ID	WTR05_00547C	
Type	"C" -- Circular Shaped Culvert	
Length	7.54m	
Diameter	1.20m	
Upstream Invert	11.10m AOD	
Downstream Invert	1113m AOD	
Spill/Bypass Method	1D Weir	
Manning's n value	0.015	
Losses	Default TUFLOW losses applied	

Network ID	WTR05_00560C	
Type	"C" - Circular Shaped Culvert	
Length	10.05m	
Diameter	1.00m	
Upstream Invert	11.25m AOD	
Downstream Invert	11.02m AOD	
Spill/Bypass Method	1D Weir	
Manning's n value	0.011	
Losses	Default TUFLOW losses applied	
Network ID	WTR05_00843C	
Type	"C" - Circular Shaped Culvert	
Length	9.91m	
Width	0.75m	
Upstream Invert	13.39m AOD	
Downstream Invert	13.59m AOD	
Spill/Bypass Method	1D Weir	
Manning's n value	0.011	
Losses	Default TUFLOW losses applied	
Network ID	WTR05_01155C	
Type	"C" - Circular Shaped Culvert	
Length	12.64m	
Diameter	1.20m	
Upstream Invert	15.09m AOD	

Downstream Invert	15.05m AOD	 WTR05_U1155 Chainage: 1155.293 59734.7 ETE 264582.80N BEARING 086 Access Bridge 25/07/2024
Spill/Bypass Method	1D Weir	
Manning's n value	0.011	
Losses	Default TUFLOW applied losses	

Appendix D Baseline Flood Mapping



Legend

Site Boundaries

College Land

Wedd Land

Flood Depth (m)

2

0

NOTES

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REVISIONS

DRAFT

P01	FIRST ISSUE			
	DRAWN LH	CHECKED AP	APPROVED AP	DATE 29/11/2024
REV.	REVISION NOTES/COMMENTS			
	DRAWN N/A	CHECKED N/A	APPROVED N/A	DATE N/A

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CLIENT

Tritax Big Box Developments

PROJECT

A14 Corridor, South Cambridgeshire

TITLE

Baseline Event Flood Depth (1 in 30-Year)

HYDROCK PROJECT NO.

31188

SCALE @ A3

1:7,000

PURPOSE OF ISSUE

SUITABLE FOR INFORMATION

STATUS

S2

DRAWING NO.

31188-HYD-XX-XX-DR-WENV-0011

REVISION

P01



Legend Site Boundaries College Land Wedd Land Flood Depth (m) 2 0	NOTES Contains OS Zoomstack Mapping Crown Copyright © (2024)	REVISIONS DRAFT				Hydrock now Stantec Over Court Barns, Over Lane, Almondsbury, Bristol, BS32 4DF t. +44(0) 1454 619533 e. bristol@hydrock.com	TITLE Baseline Event Flood Depth (1 in 100-Year)			
						HYDROCK PROJECT NO. 31188	SCALE @ A3 1:7,000			
		P01	FIRST ISSUE			CLIENT Tritax Big Box Developments		PURPOSE OF ISSUE SUITABLE FOR INFORMATION	STATUS S2	
		REV.	REVISION NOTES/COMMENTS			PROJECT A14 Corridor, South Cambridgeshire		DRAWING NO. 31188-HYD-XX-XX-DR-WENV-0012	REVISION P01	
				DRAWN LH	CHECKED AP	APPROVED AP	DATE 29/11/2024			
				DRAWN N/A	CHECKED N/A	APPROVED N/A	DATE N/A			



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								HYDROCK PROJECT NO. 31188		SCALE @ A3 1:8,000		
				P01 FIRST ISSUE DRAWN LH CHECKED AP APPROVED AP DATE 29/11/2024				CLIENT Tritax Big Box Developments		PURPOSE OF ISSUE SUITABLE FOR INFORMATION		STATUS S2
				REV. REVISION NOTES/COMMENTS DRAWN N/A CHECKED N/A APPROVED N/A DATE N/A				PROJECT A14 Corridor, South Cambridgeshire		DRAWING NO. 31188-HYD-XX-XX-DR-WENV-0013		REVISION P01



Legend Site Boundaries College Land Wedd Land Flood Depth (m) 2 0	NOTES Contains OS Zoomstack Mapping Crown Copyright © (2024)	REVISIONS DRAFT	Hydrock now Stantec Over Court Barns, Over Lane, Almondsbury, Bristol, BS32 4DF t. +44(0) 1454 619533 e. bristol@hydrock.com	TITLE Baseline Event Flood Depth (1 in 1000-Year)
		P01 FIRST ISSUE DRAWN LH CHECKED AP APPROVED AP DATE 29/11/2024	CLIENT Tritax Big Box Developments	HYDROCK PROJECT NO. 31188 SCALE @ A3 1:8,000
		REV. REVISION NOTES/COMMENTS DRAWN N/A CHECKED N/A APPROVED N/A DATE N/A	PROJECT A14 Corridor, South Cambridgeshire	PURPOSE OF ISSUE SUITABLE FOR INFORMATION DRAWING NO. 31188-HYD-XX-XX-DR-WENV-0014 STATUS S2 REVISION P01