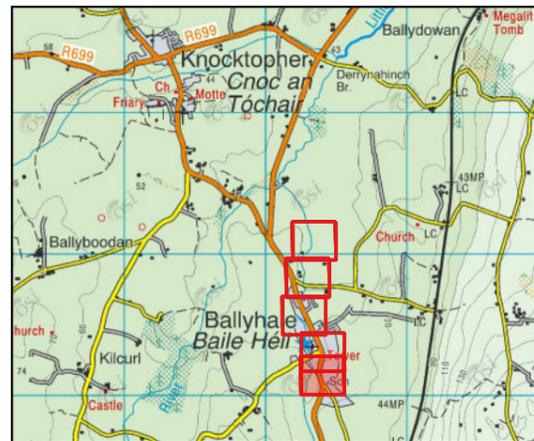
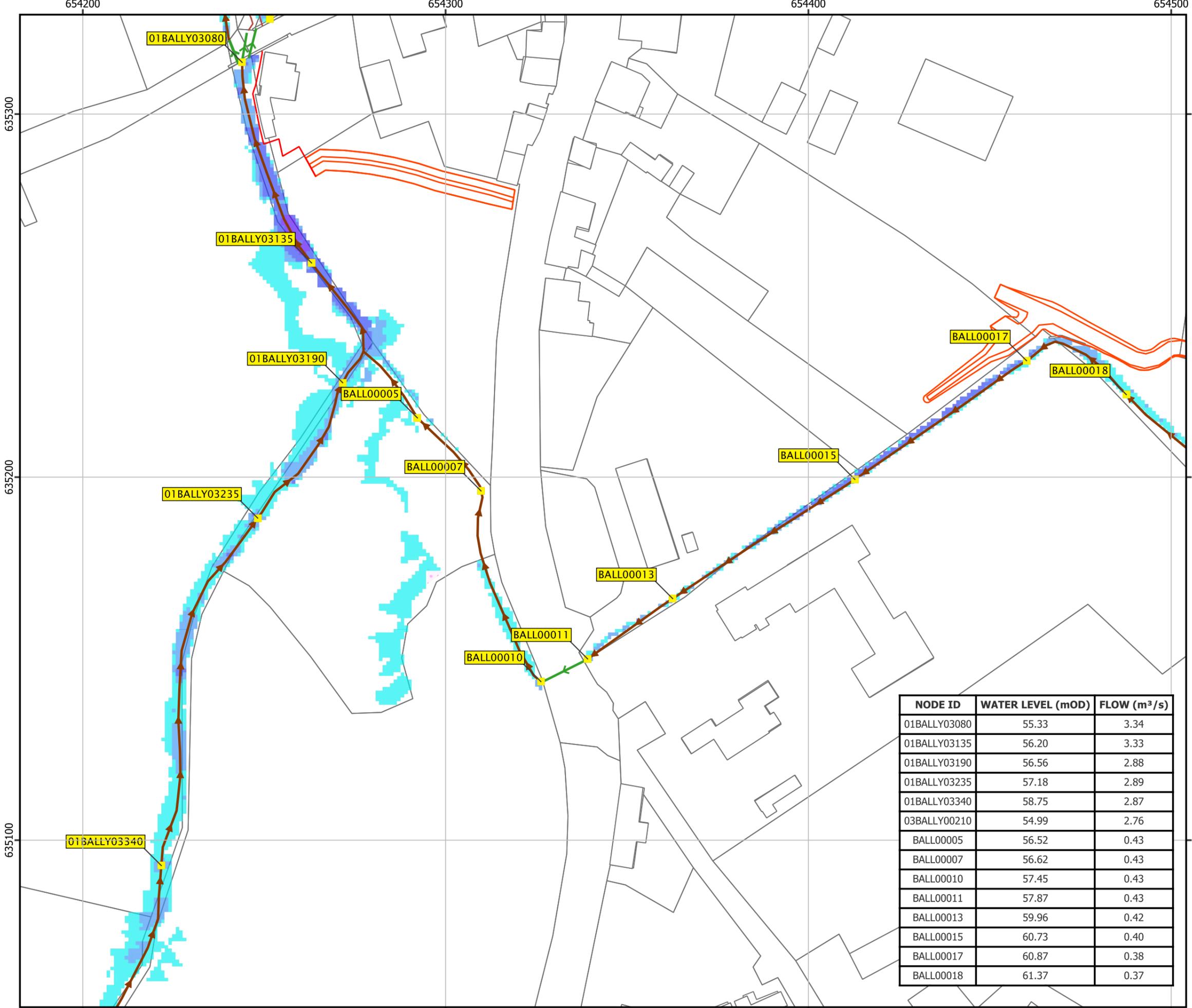


## Appendix B

# Option Flood Mapping

### Flood Map Schedule

Mapset Reference	Revision	Map Type	Return Period	Hydrology Scenario	Geometry Reference
514_DPFC_10	2	Depth / Extent	10% AEP	Present Day	Design
514_DPFM_10	2	Depth / Extent	10% AEP	MRFS	Design
514_DPFH_10	2	Depth / Extent	10% AEP	HEFS	Design
514_DPFC_1	2	Depth / Extent	1% AEP	Present Day	Design
514_DPFM_1	2	Depth / Extent	1% AEP	MRFS	Design
514_DPFH_1	2	Depth / Extent	1% AEP	HEFS	Design
514_DPFC_01	2	Depth / Extent	0.1% AEP	Present Day	Design
514_DPFM_01	2	Depth / Extent	0.1% AEP	MRFS	Design
514_DPFH_01	2	Depth / Extent	0.1% AEP	HEFS	Design



**IMPORTANT USER NOTE:** MAPS TO BE READ IN CONJUNCTION WITH THE BALLYHALE FRS HYDRAULICS REPORT.

**LEGEND**

0 - 0.25m	NODE POINT
0.25 - 0.5 m	DEFENDED AREAS
0.50 - 1.0 m	DESIGN GEOMETRIES
1.0 - 1.5 m	CHANNEL REALIGNMENT
1.5 - 2.0 m	CULVERT UPGRADE
>2m	DIVERSION PIPE
MODELLED RIVER CENTRELINE	EMBANKMENT
CULVERTED WATERCOURSE	FLOOD WALL
	WEIR

REV: 02	NOTE: FOR INFORMATION	DATE: 21/12/2022
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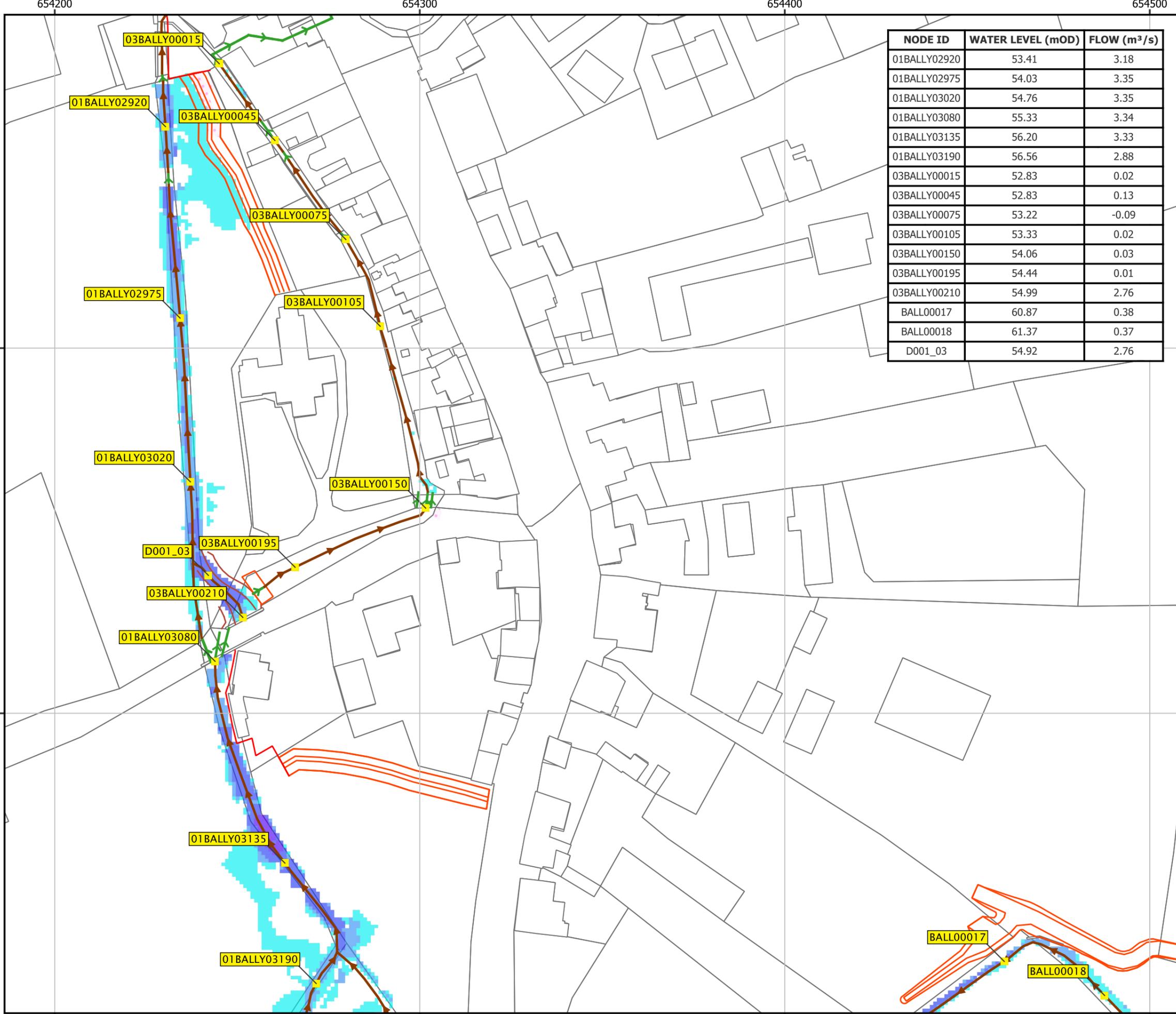
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 T: +353 (0)1 5138963 E: info@mcclloyconsulting.ie W: www.mcclloyconsulting.ie

NODE ID	WATER LEVEL (mOD)	FLOW (m³/s)
01BALLY03080	55.33	3.34
01BALLY03135	56.20	3.33
01BALLY03190	56.56	2.88
01BALLY03235	57.18	2.89
01BALLY03340	58.75	2.87
03BALLY00210	54.99	2.76
BALL00005	56.52	0.43
BALL00007	56.62	0.43
BALL00010	57.45	0.43
BALL00011	57.87	0.43
BALL00013	59.96	0.42
BALL00015	60.73	0.40
BALL00017	60.87	0.38
BALL00018	61.37	0.37

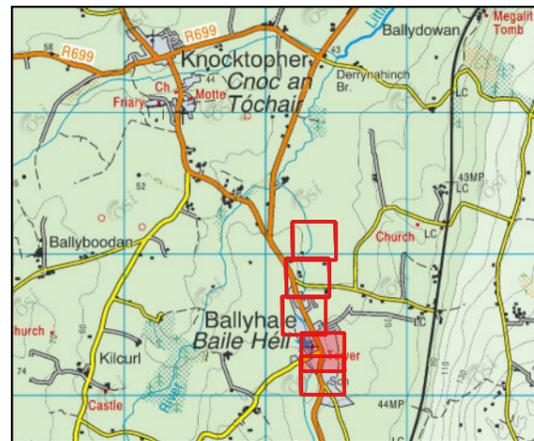


**DRAWING NUMBER:** 514\_DPFC\_10\_51

<b>MAP SERIES:</b>	PAGE 1 OF 5
<b>DRAWING SCALE:</b>	1:1000 @ A3



NODE ID	WATER LEVEL (mOD)	FLOW (m³/s)
01BALLY02920	53.41	3.18
01BALLY02975	54.03	3.35
01BALLY03020	54.76	3.35
01BALLY03080	55.33	3.34
01BALLY03135	56.20	3.33
01BALLY03190	56.56	2.88
03BALLY00015	52.83	0.02
03BALLY00045	52.83	0.13
03BALLY00075	53.22	-0.09
03BALLY00105	53.33	0.02
03BALLY00150	54.06	0.03
03BALLY00195	54.44	0.01
03BALLY00210	54.99	2.76
BALL00017	60.87	0.38
BALL00018	61.37	0.37
D001_03	54.92	2.76



IMPORTANT USER NOTE: MAPS TO BE READ IN CONJUNCTION WITH THE BALLYHALE FRS HYDRAULICS REPORT.

**LEGEND**

0 - 0.25m	NODE POINT
0.25 - 0.5 m	DEFENDED AREAS
0.50 - 1.0 m	DESIGN GEOMETRIES
1.0 - 1.5 m	CHANNEL REALIGNMENT
1.5 - 2.0 m	CULVERT UPGRADE
>2m	DIVERSION PIPE
MODELLED RIVER CENTRELINE	EMBANKMENT
CULVERTED WATERCOURSE	FLOOD WALL
	WEIR

REV: 02	NOTE: FOR INFORMATION	DATE: 21/12/2022
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 T: +353 (0)1 5138963, E: info@mcclloyconsulting.ie, W: www.mcclloyconsulting.ie

MAP: BALLYHALE, CO. KILKENNY	
FLOOD PROBABILITY:	10% AEP
MAP TYPE:	DEPTH
SOURCE:	FLUVIAL
HYDROLOGY SCENARIO:	PRESENT DAY
GEOMETRY SCENARIO:	DESIGN
DRAWN BY:	DL DATE: 21/12/2022
CHECKED BY:	MR DATE: 21/12/2022
APPROVED BY:	DKS DATE: 21/12/2022
DRAWING NUMBER: 514_DPFC_10_52	
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DRAWING SCALE:	1:1000 @ A3



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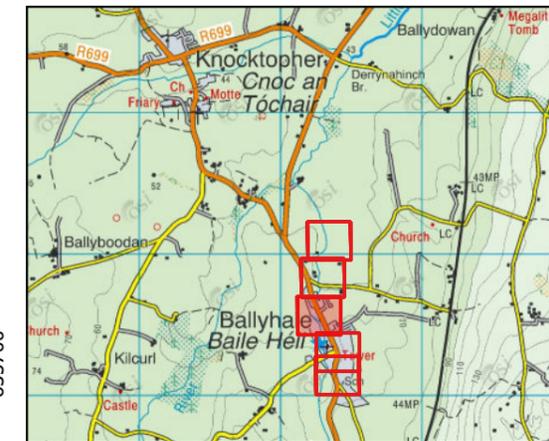
654200

654300

0 100 METRES



NODE ID	WATER LEVEL (mOD)	FLOW (m <sup>3</sup> /s)
01BALLY02670	50.87	3.40
01BALLY02730	51.32	3.40
01BALLY02775	51.68	3.40
01BALLY02805	51.97	3.36
01BALLY02870	53.02	3.35
03BALLY00015	52.83	0.02



IMPORTANT USER NOTE: MAPS TO BE READ IN CONJUNCTION WITH THE BALLYHALE FRS HYDRAULICS REPORT.

**LEGEND**

	0 - 0.25m		NODE POINT
	0.25 - 0.5 m		DEFENDED AREAS
	0.50 - 1.0 m		DESIGN GEOMETRIES
	1.0 - 1.5 m		CHANNEL REALIGNMENT
	1.5 - 2.0 m		CULVERT UPGRADE
	>2m		DIVERSION PIPE
	MODELLED RIVER CENTRELINE		EMBANKMENT
	CULVERTED WATERCOURSE		FLOOD WALL
			WEIR

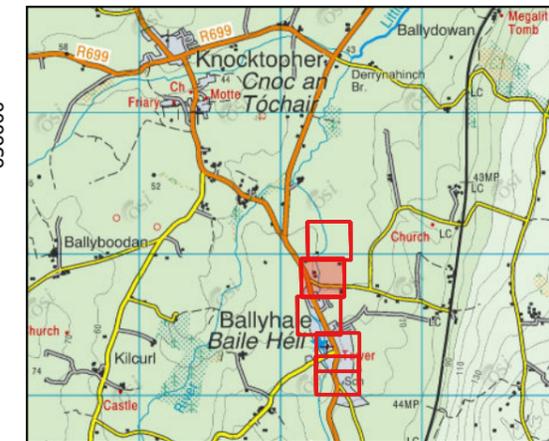
REV: 02	NOTE: FOR INFORMATION	DATE: 21/12/2022
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 E: info@mcclloyconsulting.ie  
 W: www.mcclloyconsulting.ie

MAP: BALLYHALE, CO. KILKENNY	
FLOOD PROBABILITY:	10% AEP
MAP TYPE:	DEPTH
SOURCE:	FLUVIAL
HYDROLOGY SCENARIO:	PRESENT DAY
GEOMETRY SCENARIO:	DESIGN
DRAWN BY:	DL DATE: 21/12/2022
CHECKED BY:	MR DATE: 21/12/2022
APPROVED BY:	DKS DATE: 21/12/2022
DRAWING NUMBER: 514_DPFC_10_53	
MAP SERIES:	PAGE 3 OF 5
DRAWING SCALE:	1:1000 @ A3



IMPORTANT USER NOTE: MAPS TO BE READ IN CONJUNCTION WITH THE BALLYHAILE FRS HYDRAULICS REPORT.

**LEGEND**

0 - 0.25m	NODE POINT
0.25 - 0.5 m	DEFENDED AREAS
0.50 - 1.0 m	DESIGN GEOMETRIES
1.0 - 1.5 m	CHANNEL REALIGNMENT
1.5 - 2.0 m	CULVERT UPGRADE
>2m	DIVERSION PIPE
MODELLED RIVER CENTRELINE	EMBANKMENT
CULVERTED WATERCOURSE	FLOOD WALL
	WEIR

REV: 02	NOTE: FOR INFORMATION	DATE: 21/12/2022
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 E: info@mcclloyconsulting.ie  
 W: www.mcclloyconsulting.ie

MAP: BALLYHAILE, CO. KILKENNY

FLOOD PROBABILITY:	10% AEP
MAP TYPE:	DEPTH
SOURCE:	FLUVIAL
HYDROLOGY SCENARIO:	PRESENT DAY
GEOMETRY SCENARIO:	DESIGN
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APPROVED BY:	DKS DATE: 21/12/2022

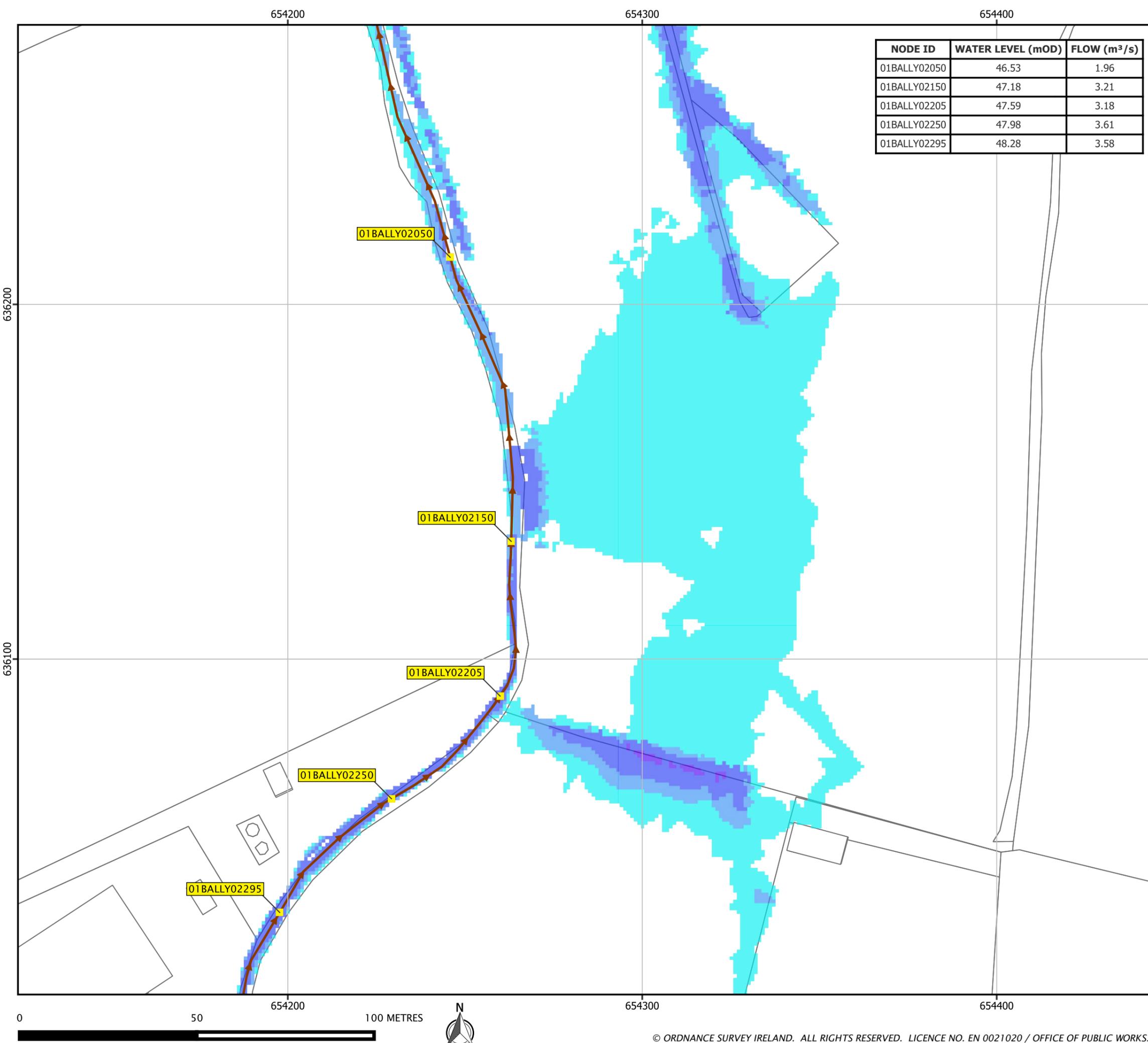
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MAP SERIES: PAGE 4 OF 5

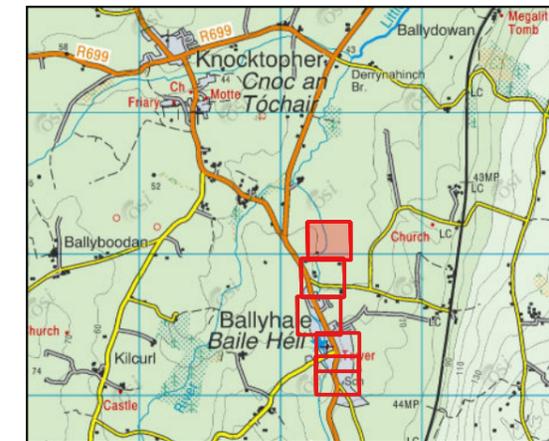
DRAWING SCALE: 1:1000 @ A3

NODE ID	WATER LEVEL (mOD)	FLOW (m <sup>3</sup> /s)
01BALLY02340	48.60	3.55
01BALLY02385	48.91	3.52
01BALLY02430	49.12	3.50
01BALLY02475	49.40	3.45
01BALLY02510	49.62	3.45
01BALLY02555	49.78	3.43
01BALLY02600	50.14	3.41





NODE ID	WATER LEVEL (mOD)	FLOW (m <sup>3</sup> /s)
01BALLY02050	46.53	1.96
01BALLY02150	47.18	3.21
01BALLY02205	47.59	3.18
01BALLY02250	47.98	3.61
01BALLY02295	48.28	3.58



IMPORTANT USER NOTE: MAPS TO BE READ IN CONJUNCTION WITH THE BALLYHALE FRS HYDRAULICS REPORT.

**LEGEND**

0 - 0.25m	NODE POINT
0.25 - 0.5 m	DEFENDED AREAS
0.50 - 1.0 m	DESIGN GEOMETRIES
1.0 - 1.5 m	CHANNEL REALIGNMENT
1.5 - 2.0 m	CULVERT UPGRADE
>2m	DIVERSION PIPE
MODELLED RIVER CENTRELINE	EMBANKMENT
CULVERTED WATERCOURSE	FLOOD WALL
	WEIR

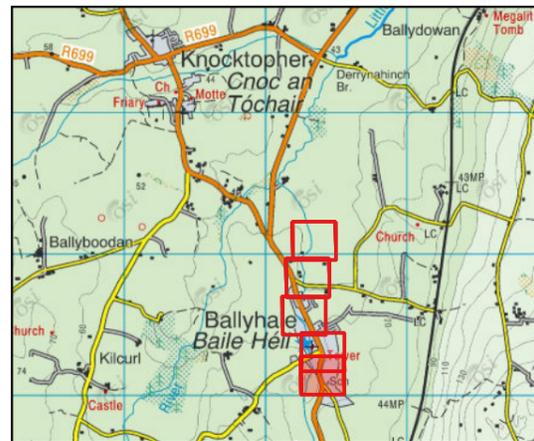
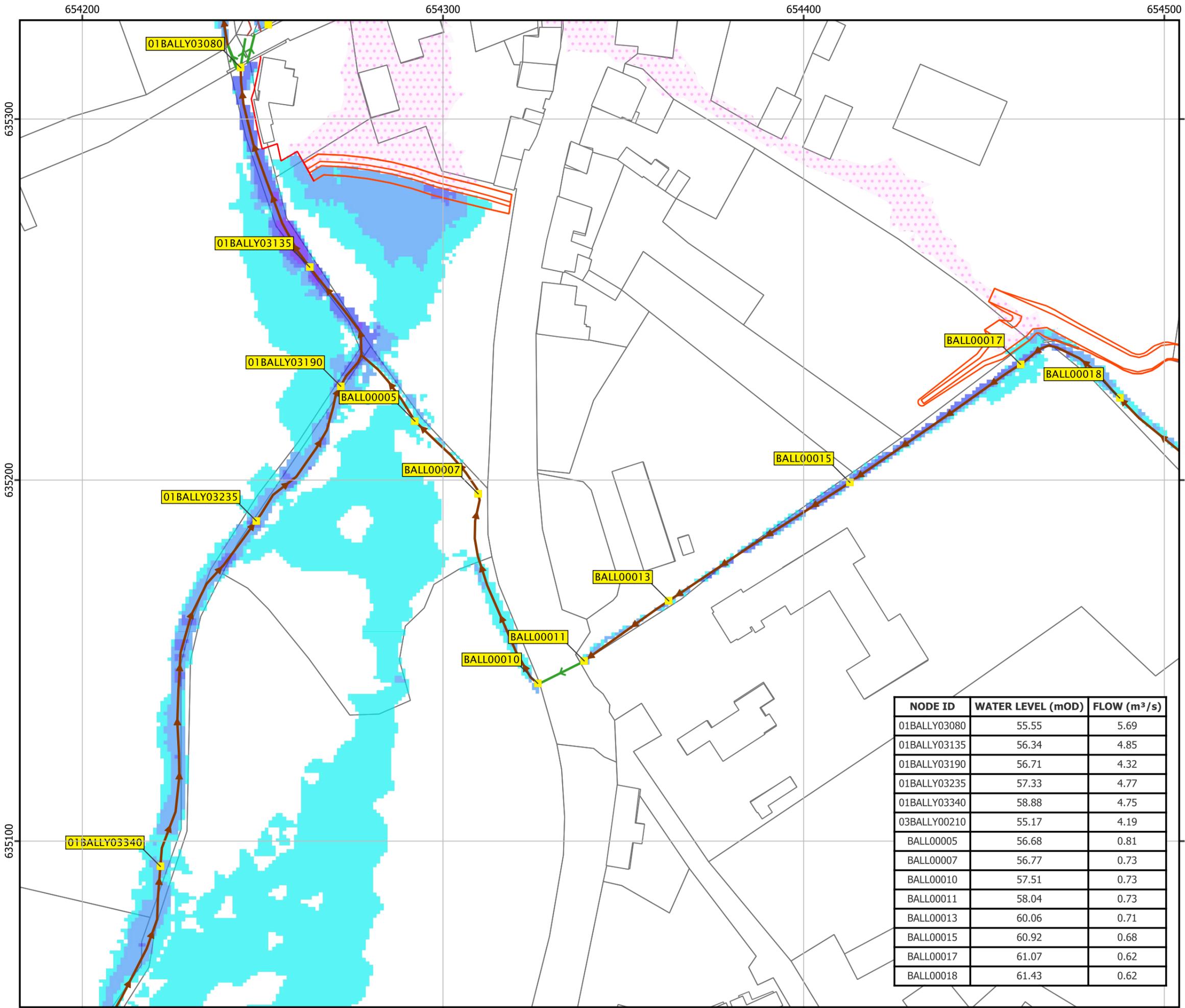
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 E: info@mcclloyconsulting.ie  
 W: www.mcclloyconsulting.ie

MAP: BALLYHALE, CO. KILKENNY	
FLOOD PROBABILITY:	10% AEP
MAP TYPE:	DEPTH
SOURCE:	FLUVIAL
HYDROLOGY SCENARIO:	PRESENT DAY
GEOMETRY SCENARIO:	DESIGN
DRAWN BY:	DL DATE: 21/12/2022
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APPROVED BY:	DKS DATE: 21/12/2022
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MAP SERIES:	PAGE 5 OF 5
DRAWING SCALE:	1:1000 @ A3



IMPORTANT USER NOTE: MAPS TO BE READ IN CONJUNCTION WITH THE BALLYHAILE FRS HYDRAULICS REPORT.

**LEGEND**

0 - 0.25m	NODE POINT
0.25 - 0.5 m	DEFENDED AREAS
0.50 - 1.0 m	DESIGN GEOMETRIES
1.0 - 1.5 m	CHANNEL REALIGNMENT
1.5 - 2.0 m	CULVERT UPGRADE
>2m	DIVERSION PIPE
MODELLED RIVER CENTRELINE	EMBANKMENT
CULVERTED WATERCOURSE	FLOOD WALL
	WEIR

REV: 02	NOTE: FOR INFORMATION	DATE: 21/12/2022
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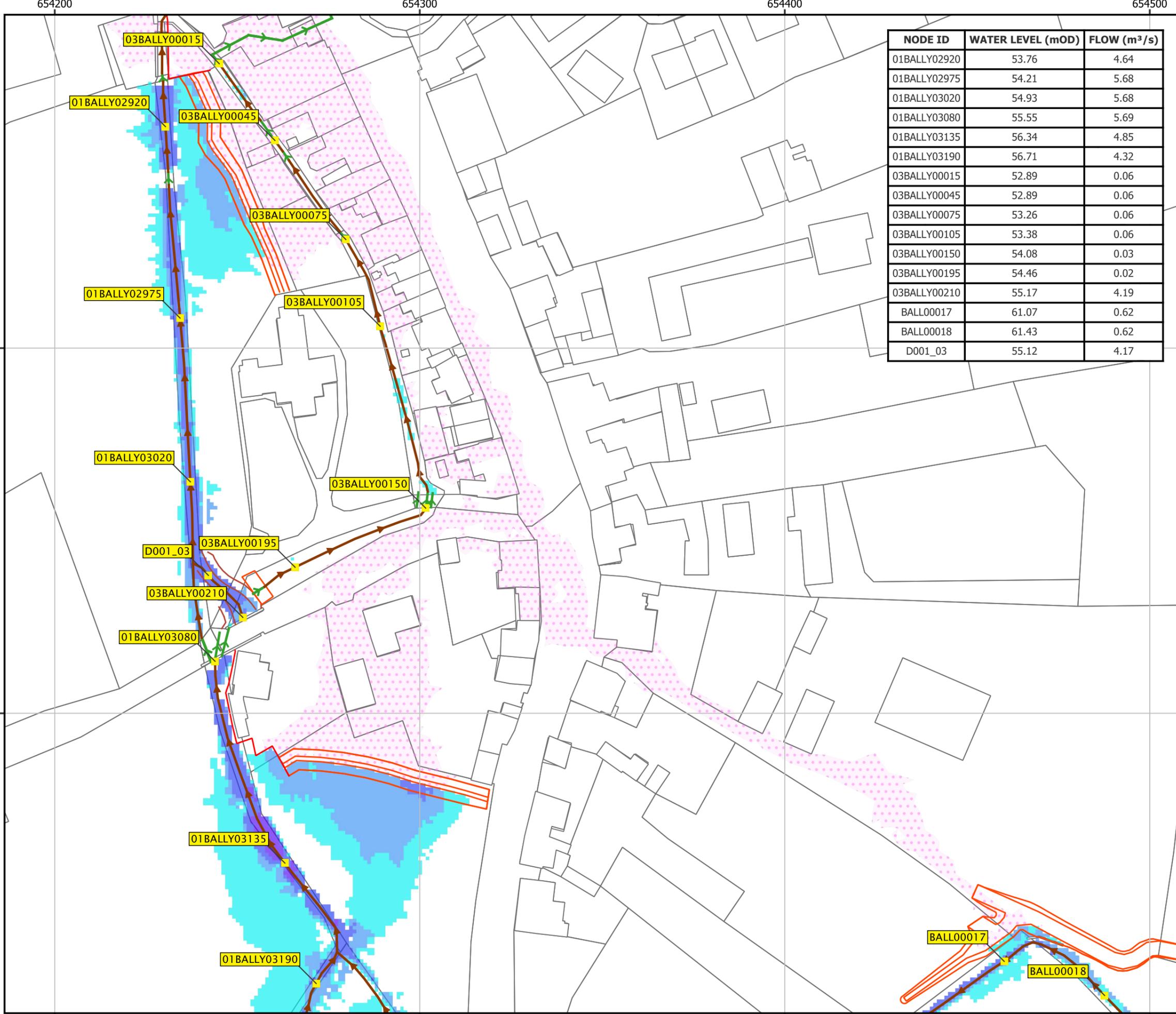


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 T: +353 (0)1 5138963, E: info@mcclloyconsulting.ie, W: www.mcclloyconsulting.ie

NODE ID	WATER LEVEL (mOD)	FLOW (m³/s)
01BALLY03080	55.55	5.69
01BALLY03135	56.34	4.85
01BALLY03190	56.71	4.32
01BALLY03235	57.33	4.77
01BALLY03340	58.88	4.75
03BALLY00210	55.17	4.19
BALL00005	56.68	0.81
BALL00007	56.77	0.73
BALL00010	57.51	0.73
BALL00011	58.04	0.73
BALL00013	60.06	0.71
BALL00015	60.92	0.68
BALL00017	61.07	0.62
BALL00018	61.43	0.62

MAP: BALLYHAILE, CO. KILKENNY	
FLOOD PROBABILITY:	1% AEP
MAP TYPE:	DEPTH
SOURCE:	FLUVIAL
HYDROLOGY SCENARIO:	PRESENT DAY
GEOMETRY SCENARIO:	DESIGN
DRAWN BY:	DL DATE: 21/12/2022
CHECKED BY:	MR DATE: 21/12/2022
APPROVED BY:	DKS DATE: 21/12/2022
DRAWING NUMBER: 514_DPFC_1_51	
MAP SERIES:	PAGE 1 OF 5
DRAWING SCALE:	1:1000 @ A3





NODE ID	WATER LEVEL (mOD)	FLOW (m <sup>3</sup> /s)
01BALLY02920	53.76	4.64
01BALLY02975	54.21	5.68
01BALLY03020	54.93	5.68
01BALLY03080	55.55	5.69
01BALLY03135	56.34	4.85
01BALLY03190	56.71	4.32
03BALLY00015	52.89	0.06
03BALLY00045	52.89	0.06
03BALLY00075	53.26	0.06
03BALLY00105	53.38	0.06
03BALLY00150	54.08	0.03
03BALLY00195	54.46	0.02
03BALLY00210	55.17	4.19
BALL00017	61.07	0.62
BALL00018	61.43	0.62
D001_03	55.12	4.17



IMPORTANT USER NOTE: MAPS TO BE READ IN CONJUNCTION WITH THE BALLYHALE FRS HYDRAULICS REPORT.

**LEGEND**

0 - 0.25m	NODE POINT
0.25 - 0.5 m	DEFENDED AREAS
0.50 - 1.0 m	DESIGN GEOMETRIES
1.0 - 1.5 m	CHANNEL REALIGNMENT
1.5 - 2.0 m	CULVERT UPGRADE
>2m	DIVERSION PIPE
MODELLED RIVER CENTRELINE	EMBANKMENT
CULVERTED WATERCOURSE	FLOOD WALL
	WEIR

REV: 02	NOTE: FOR INFORMATION	DATE: 21/12/2022
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MAP: BALLYHALE, CO. KILKENNY	
FLOOD PROBABILITY:	1% AEP
MAP TYPE:	DEPTH
SOURCE:	FLUVIAL
HYDROLOGY SCENARIO:	PRESENT DAY
GEOMETRY SCENARIO:	DESIGN
DRAWN BY:	DL DATE: 21/12/2022
CHECKED BY:	MR DATE: 21/12/2022
APPROVED BY:	DKS DATE: 21/12/2022
DRAWING NUMBER: 514_DPFC_1_52	
MAP SERIES:	PAGE 2 OF 5
DRAWING SCALE:	1:1000 @ A3



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0 50 100 METRES



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NODE ID	WATER LEVEL (mOD)	FLOW (m <sup>3</sup> /s)
01BALLY02670	51.14	5.78
01BALLY02730	51.59	5.78
01BALLY02775	51.96	5.78
01BALLY02805	52.24	5.70
01BALLY02870	53.36	5.68
03BALLY00015	52.89	0.06



IMPORTANT USER NOTE: MAPS TO BE READ IN CONJUNCTION WITH THE BALLYHAILE FRS HYDRAULICS REPORT.

**LEGEND**

0 - 0.25m	NODE POINT
0.25 - 0.5 m	DEFENDED AREAS
0.50 - 1.0 m	DESIGN GEOMETRIES
1.0 - 1.5 m	CHANNEL REALIGNMENT
1.5 - 2.0 m	CULVERT UPGRADE
>2m	DIVERSION PIPE
MODELLED RIVER CENTRELINE	EMBANKMENT
CULVERTED WATERCOURSE	FLOOD WALL
	WEIR

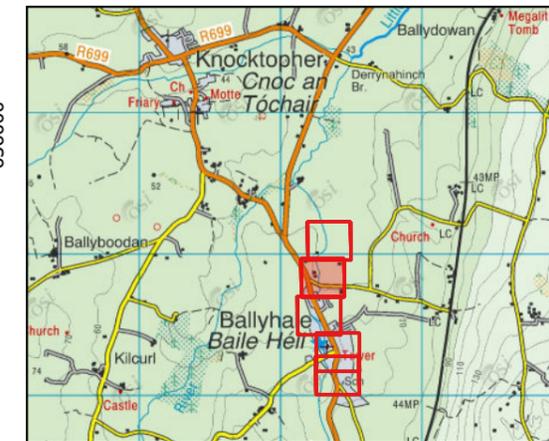
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 E: info@mcclloyconsulting.ie  
 W: www.mcclloyconsulting.ie

MAP: BALLYHAILE, CO. KILKENNY		
FLOOD PROBABILITY:	1% AEP	
MAP TYPE:	DEPTH	
SOURCE:	FLUVIAL	
HYDROLOGY SCENARIO:	PRESENT DAY	
GEOMETRY SCENARIO:	DESIGN	
DRAWN BY:	DL	DATE: 21/12/2022
CHECKED BY:	MR	DATE: 21/12/2022
APPROVED BY:	DKS	DATE: 21/12/2022
DRAWING NUMBER: 514_DPFC_1_53		
MAP SERIES:	PAGE 3 OF 5	
DRAWING SCALE:	1:1000 @ A3	



IMPORTANT USER NOTE: MAPS TO BE READ IN CONJUNCTION WITH THE BALLYHAILE FRS HYDRAULICS REPORT.

**LEGEND**

0 - 0.25m	NODE POINT
0.25 - 0.5 m	DEFENDED AREAS
0.50 - 1.0 m	DESIGN GEOMETRIES
1.0 - 1.5 m	CHANNEL REALIGNMENT
1.5 - 2.0 m	CULVERT UPGRADE
>2m	DIVERSION PIPE
MODELLED RIVER CENTRELINE	EMBANKMENT
CULVERTED WATERCOURSE	FLOOD WALL
	WEIR

REV: 02	NOTE: FOR INFORMATION	DATE: 21/12/2022
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MAP: BALLYHAILE, CO. KILKENNY

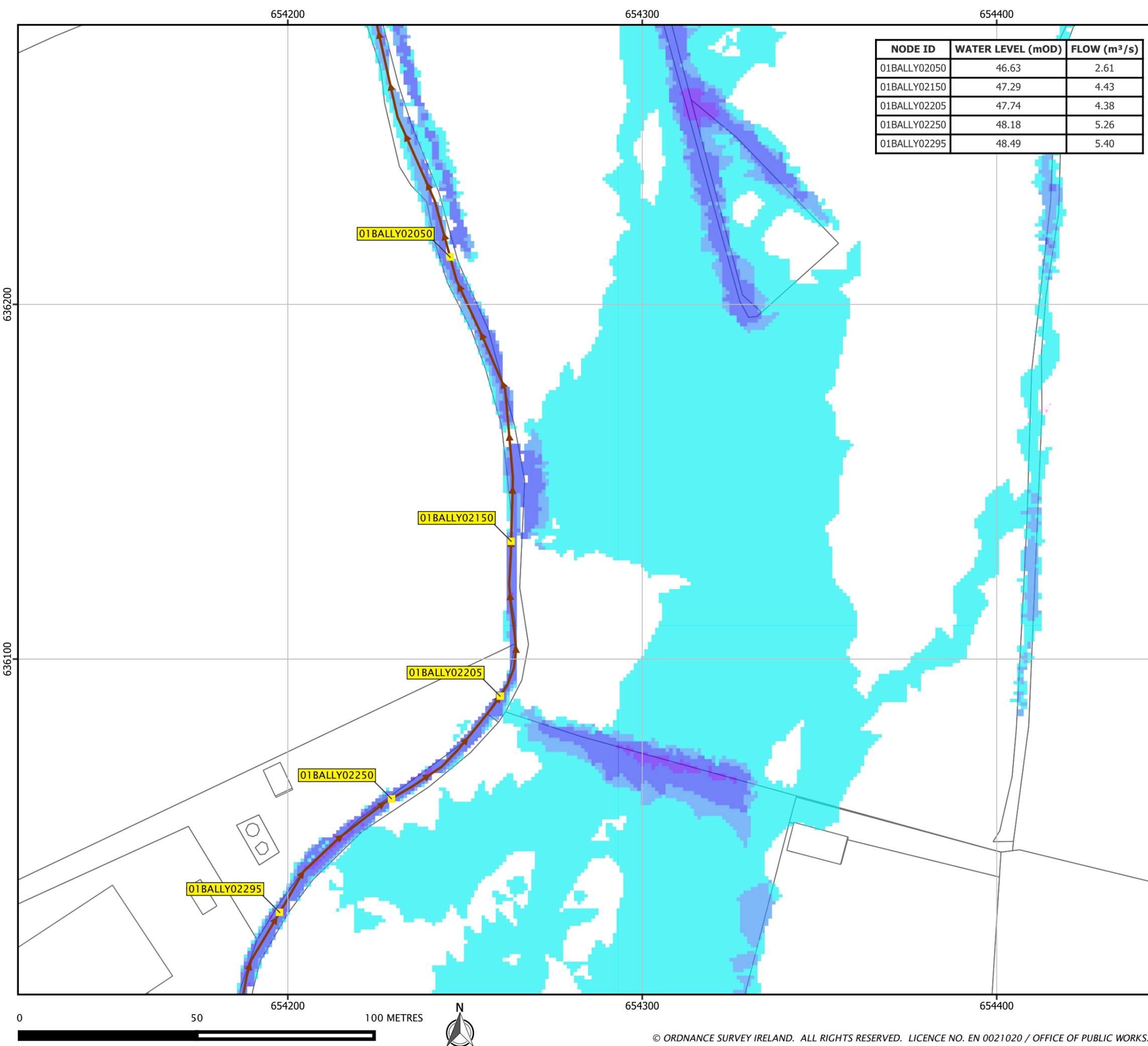
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GEOMETRY SCENARIO:	DESIGN
DRAWN BY:	DL DATE: 21/12/2022
CHECKED BY:	MR DATE: 21/12/2022
APPROVED BY:	DKS DATE: 21/12/2022

DRAWING NUMBER: 514\_DPFC\_1\_54

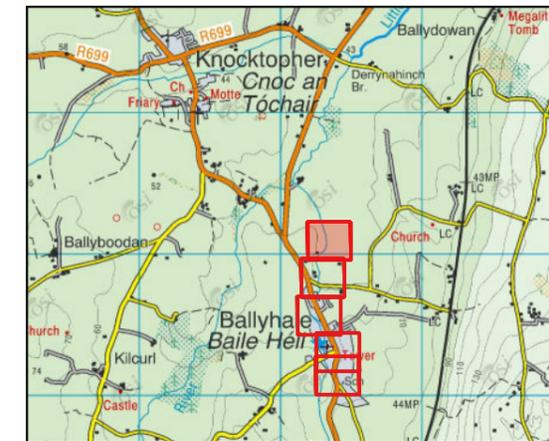
MAP SERIES:	PAGE 4 OF 5
DRAWING SCALE:	1:1000 @ A3

NODE ID	WATER LEVEL (mOD)	FLOW (m <sup>3</sup> /s)
01BALLY02340	48.81	5.35
01BALLY02385	49.13	5.31
01BALLY02430	49.34	5.26
01BALLY02475	49.62	5.61
01BALLY02510	49.91	6.05
01BALLY02555	50.08	5.90
01BALLY02600	50.44	5.81





NODE ID	WATER LEVEL (mOD)	FLOW (m <sup>3</sup> /s)
01BALLY02050	46.63	2.61
01BALLY02150	47.29	4.43
01BALLY02205	47.74	4.38
01BALLY02250	48.18	5.26
01BALLY02295	48.49	5.40



IMPORTANT USER NOTE: MAPS TO BE READ IN CONJUNCTION WITH THE BALLYHALE FRS HYDRAULICS REPORT.

**LEGEND**

0 - 0.25m	NODE POINT
0.25 - 0.5 m	DEFENDED AREAS
0.50 - 1.0 m	DESIGN GEOMETRIES
1.0 - 1.5 m	CHANNEL REALIGNMENT
1.5 - 2.0 m	CULVERT UPGRADE
>2m	DIVERSION PIPE
MODELLED RIVER CENTRELINE	EMBANKMENT
CULVERTED WATERCOURSE	FLOOD WALL
	WEIR

REV: 02	NOTE: FOR INFORMATION	DATE: 21/12/2022
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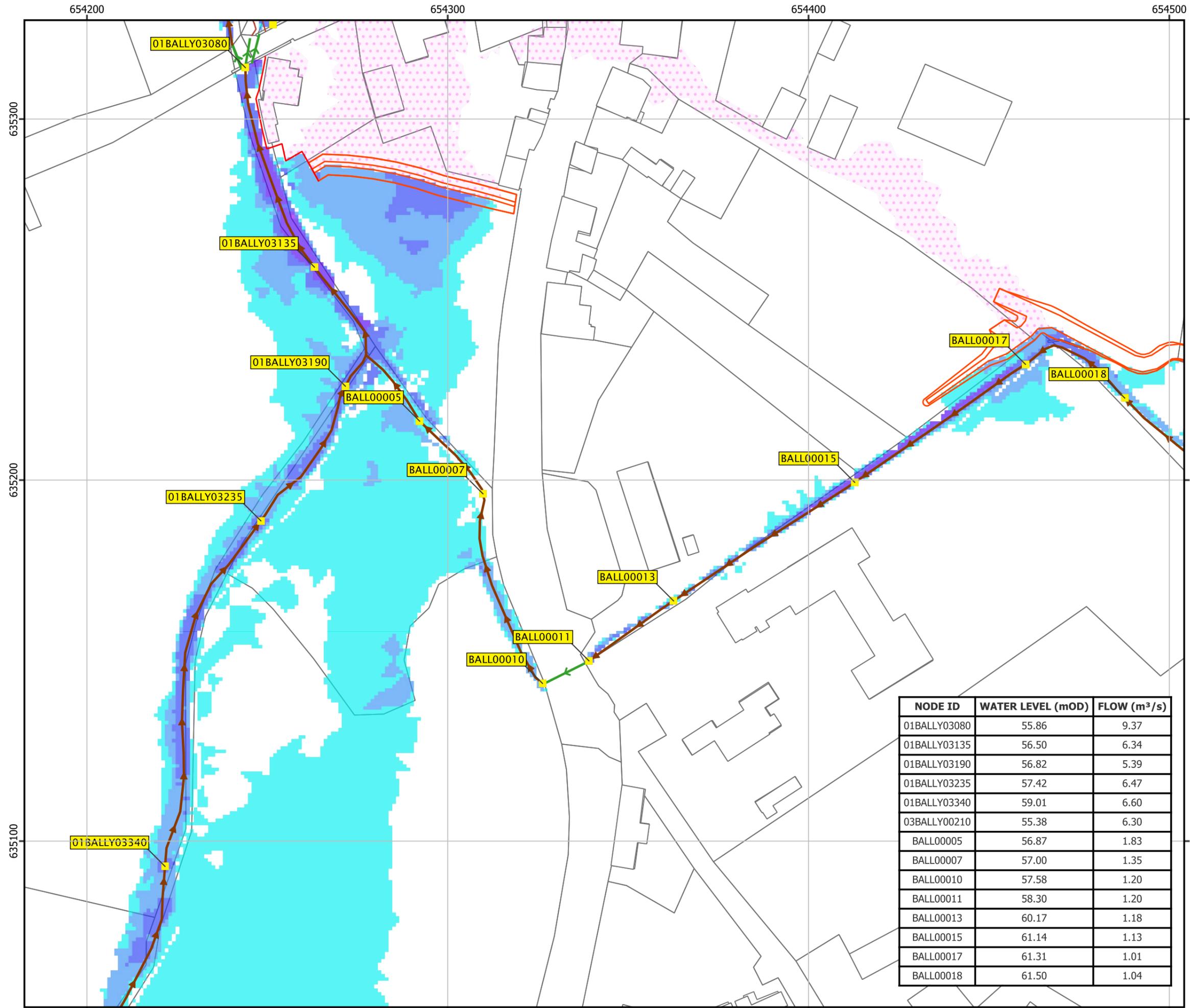
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 E: info@mcclloyconsulting.ie  
 W: www.mcclloyconsulting.ie

MAP: BALLYHALE, CO. KILKENNY

FLOOD PROBABILITY:	1% AEP	
MAP TYPE:	DEPTH	
SOURCE:	FLUVIAL	
HYDROLOGY SCENARIO:	PRESENT DAY	
GEOMETRY SCENARIO:	DESIGN	
DRAWN BY:	DL	DATE: 21/12/2022
CHECKED BY:	MR	DATE: 21/12/2022
APPROVED BY:	DKS	DATE: 21/12/2022

DRAWING NUMBER: 514\_DPFC\_1\_55

MAP SERIES:	PAGE 5 OF 5
DRAWING SCALE:	1:1000 @ A3



IMPORTANT USER NOTE: MAPS TO BE READ IN CONJUNCTION WITH THE BALLYHAILE FRS HYDRAULICS REPORT.

**LEGEND**

0 - 0.25m	NODE POINT
0.25 - 0.5 m	DEFENDED AREAS
0.50 - 1.0 m	DESIGN GEOMETRIES
1.0 - 1.5 m	CHANNEL REALIGNMENT
1.5 - 2.0 m	CULVERT UPGRADE
>2m	DIVERSION PIPE
MODELLED RIVER CENTRELINE	EMBANKMENT
CULVERTED WATERCOURSE	FLOOD WALL
	WEIR

REV: 02	NOTE: FOR INFORMATION	DATE: 21/12/2022
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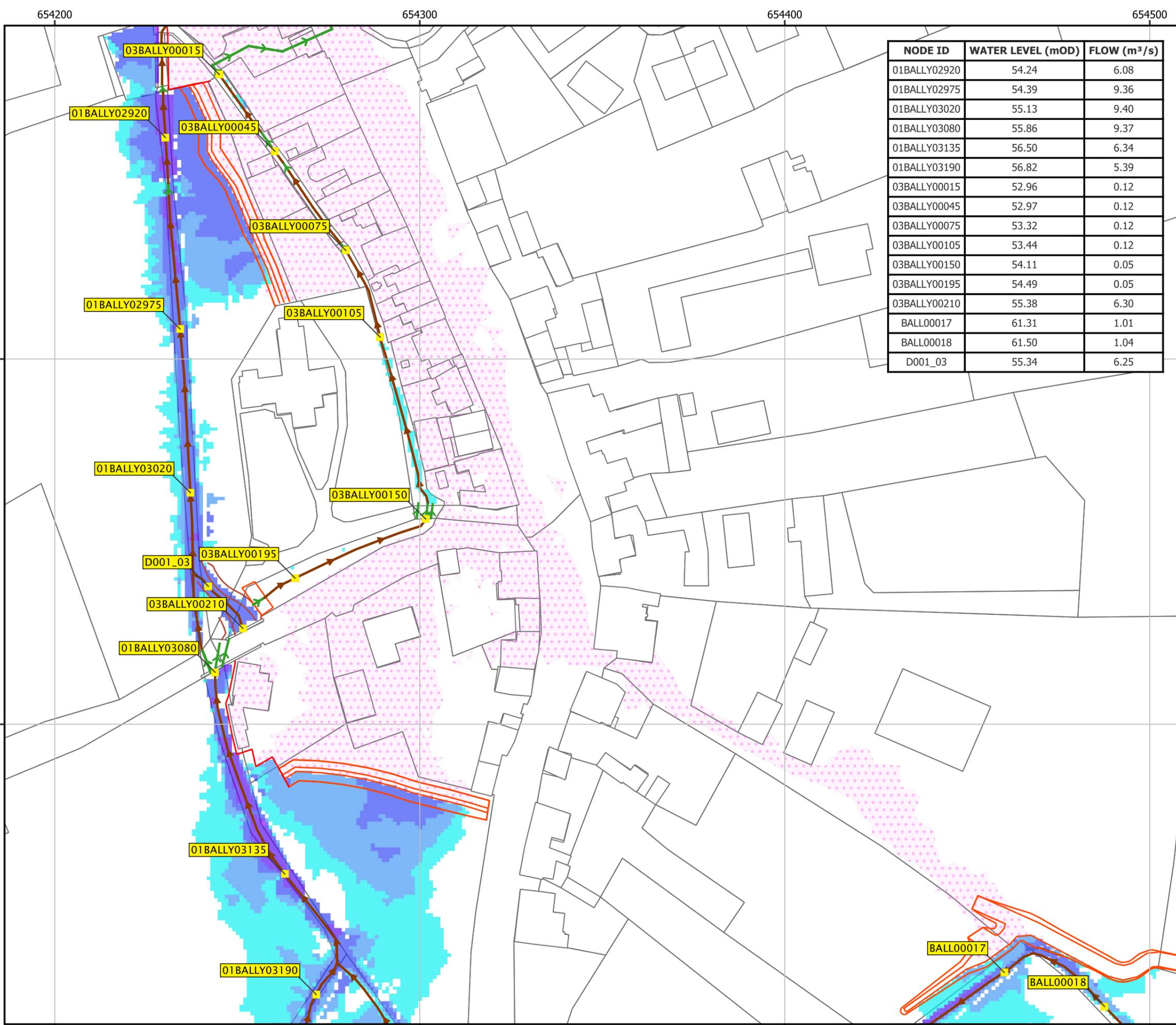
**McCloy Consulting**  
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 T: +353 (0)1 5138963, E: info@mcclloyconsulting.ie, W: www.mcclloyconsulting.ie

NODE ID	WATER LEVEL (mOD)	FLOW (m³/s)
01BALLY03080	55.86	9.37
01BALLY03135	56.50	6.34
01BALLY03190	56.82	5.39
01BALLY03235	57.42	6.47
01BALLY03340	59.01	6.60
03BALLY00210	55.38	6.30
BALL00005	56.87	1.83
BALL00007	57.00	1.35
BALL00010	57.58	1.20
BALL00011	58.30	1.20
BALL00013	60.17	1.18
BALL00015	61.14	1.13
BALL00017	61.31	1.01
BALL00018	61.50	1.04

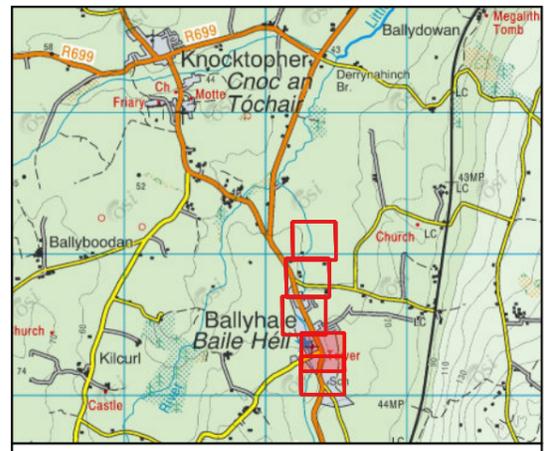


DRAWING NUMBER: 514\_DPFC\_01\_51

MAP SERIES:	PAGE 1 OF 5
DRAWING SCALE:	1:1000 @ A3



NODE ID	WATER LEVEL (mOD)	FLOW (m <sup>3</sup> /s)
01BALLY02920	54.24	6.08
01BALLY02975	54.39	9.36
01BALLY03020	55.13	9.40
01BALLY03080	55.86	9.37
01BALLY03135	56.50	6.34
01BALLY03190	56.82	5.39
03BALLY00015	52.96	0.12
03BALLY00045	52.97	0.12
03BALLY00075	53.32	0.12
03BALLY00105	53.44	0.12
03BALLY00150	54.11	0.05
03BALLY00195	54.49	0.05
03BALLY00210	55.38	6.30
BALL00017	61.31	1.01
BALL00018	61.50	1.04
D001_03	55.34	6.25



IMPORTANT USER NOTE: MAPS TO BE READ IN CONJUNCTION WITH THE BALLYHALE FRS HYDRAULICS REPORT.

**LEGEND**

0 - 0.25m	NODE POINT
0.25 - 0.5 m	DEFENDED AREAS
0.50 - 1.0 m	DESIGN GEOMETRIES
1.0 - 1.5 m	CHANNEL REALIGNMENT
1.5 - 2.0 m	CULVERT UPGRADE
>2m	DIVERSION PIPE
MODELLED RIVER CENTRELINE	EMBANKMENT
CULVERTED WATERCOURSE	FLOOD WALL
	WEIR

REV: 02	NOTE: FOR INFORMATION	DATE: 21/12/2022
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 T: +353 (0)1 5138963  
 E: info@mcclloyconsulting.ie  
 W: www.mcclloyconsulting.ie

MAP: BALLYHALE, CO. KILKENNY

FLOOD PROBABILITY:	0.1% AEP	
MAP TYPE:	DEPTH	
SOURCE:	FLUVIAL	
HYDROLOGY SCENARIO:	PRESENT DAY	
GEOMETRY SCENARIO:	DESIGN	
DRAWN BY:	DL	DATE: 21/12/2022
CHECKED BY:	MR	DATE: 21/12/2022
APPROVED BY:	DKS	DATE: 21/12/2022

DRAWING NUMBER: 514\_DPFC\_01\_52

MAP SERIES: PAGE 2 OF 5

DRAWING SCALE: 1:1000 @ A3



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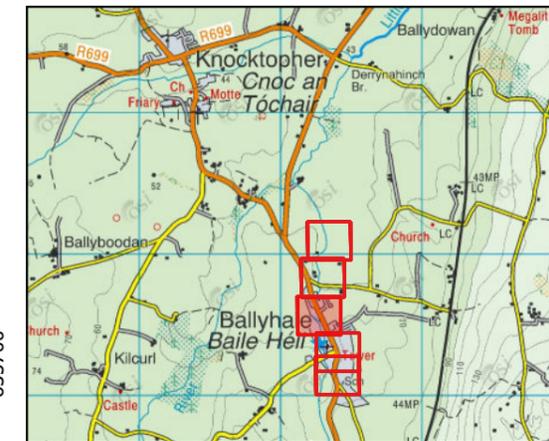
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654300

0 100 METRES



NODE ID	WATER LEVEL (mOD)	FLOW (m³/s)
01BALLY02670	51.66	9.35
01BALLY02730	52.10	9.51
01BALLY02775	52.49	9.55
01BALLY02805	52.71	9.30
01BALLY02870	53.82	9.35
03BALLY00015	52.96	0.12



IMPORTANT USER NOTE: MAPS TO BE READ IN CONJUNCTION WITH THE BALLYHAILE FRS HYDRAULICS REPORT.

**LEGEND**

	0 - 0.25m		NODE POINT
	0.25 - 0.5 m		DEFENDED AREAS
	0.50 - 1.0 m		DESIGN GEOMETRIES
	1.0 - 1.5 m		CHANNEL REALIGNMENT
	1.5 - 2.0 m		CULVERT UPGRADE
	>2m		DIVERSION PIPE
	MODELLED RIVER CENTRELINE		EMBANKMENT
	CULVERTED WATERCOURSE		FLOOD WALL
			WEIR

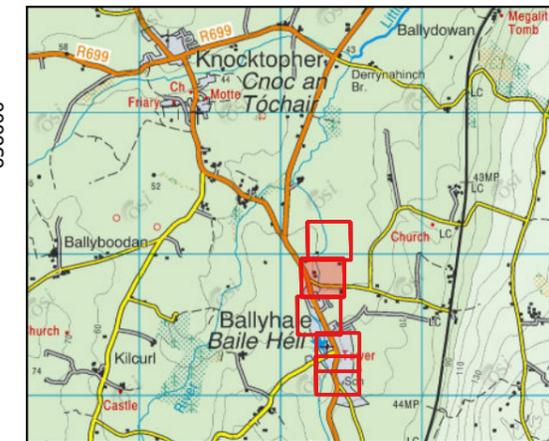
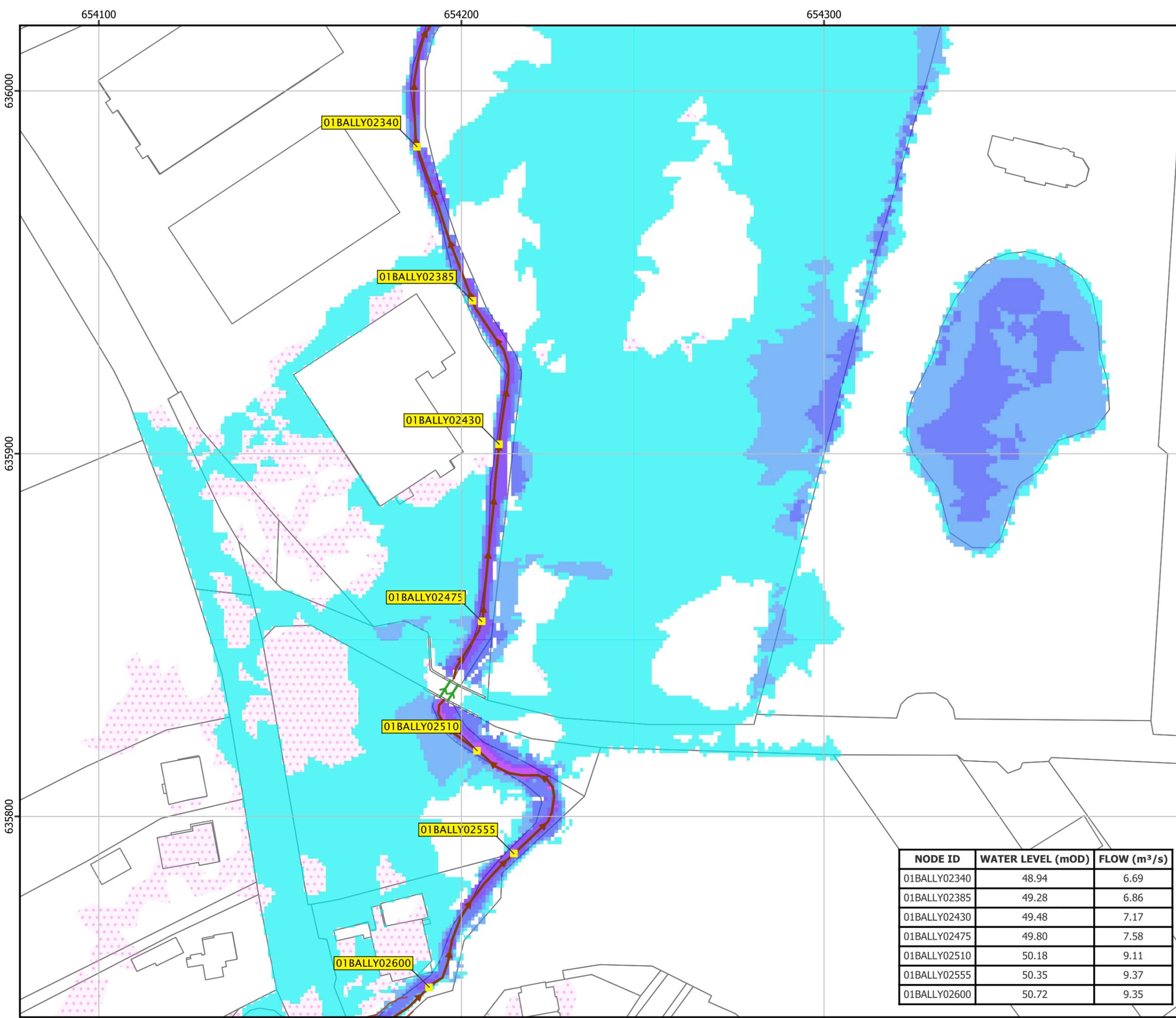
REV: 02	NOTE: FOR INFORMATION	DATE: 21/12/2022
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 W: www.mcclloyconsulting.ie

MAP: BALLYHAILE, CO. KILKENNY	
FLOOD PROBABILITY:	0.1% AEP
MAP TYPE:	DEPTH
SOURCE:	FLUVIAL
HYDROLOGY SCENARIO:	PRESENT DAY
GEOMETRY SCENARIO:	DESIGN
DRAWN BY:	DL DATE: 21/12/2022
CHECKED BY:	MR DATE: 21/12/2022
APPROVED BY:	DKS DATE: 21/12/2022
DRAWING NUMBER: 514_DPFC_01_53	
MAP SERIES:	PAGE 3 OF 5
DRAWING SCALE:	1:1000 @ A3



IMPORTANT USER NOTE: MAPS TO BE READ IN CONJUNCTION WITH THE BALLYHAILE FRS HYDRAULICS REPORT.

**LEGEND**

0 - 0.25m	NODE POINT
0.25 - 0.5 m	DEFENDED AREAS
0.50 - 1.0 m	DESIGN GEOMETRIES
1.0 - 1.5 m	CHANNEL REALIGNMENT
1.5 - 2.0 m	CULVERT UPGRADE
>2m	DIVERSION PIPE
MODELLED RIVER CENTRELINE	EMBANKMENT
CULVERTED WATERCOURSE	FLOOD WALL
	WEIR

REV: 02	NOTE: FOR INFORMATION	DATE: 21/12/2022
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 W: www.mcclloyconsulting.ie

MAP: BALLYHAILE, CO. KILKENNY

FLOOD PROBABILITY:	0.1% AEP	
MAP TYPE:	DEPTH	
SOURCE:	FLUVIAL	
HYDROLOGY SCENARIO:	PRESENT DAY	
GEOMETRY SCENARIO:	DESIGN	
DRAWN BY:	DL	DATE: 21/12/2022
CHECKED BY:	MR	DATE: 21/12/2022
APPROVED BY:	DKS	DATE: 21/12/2022

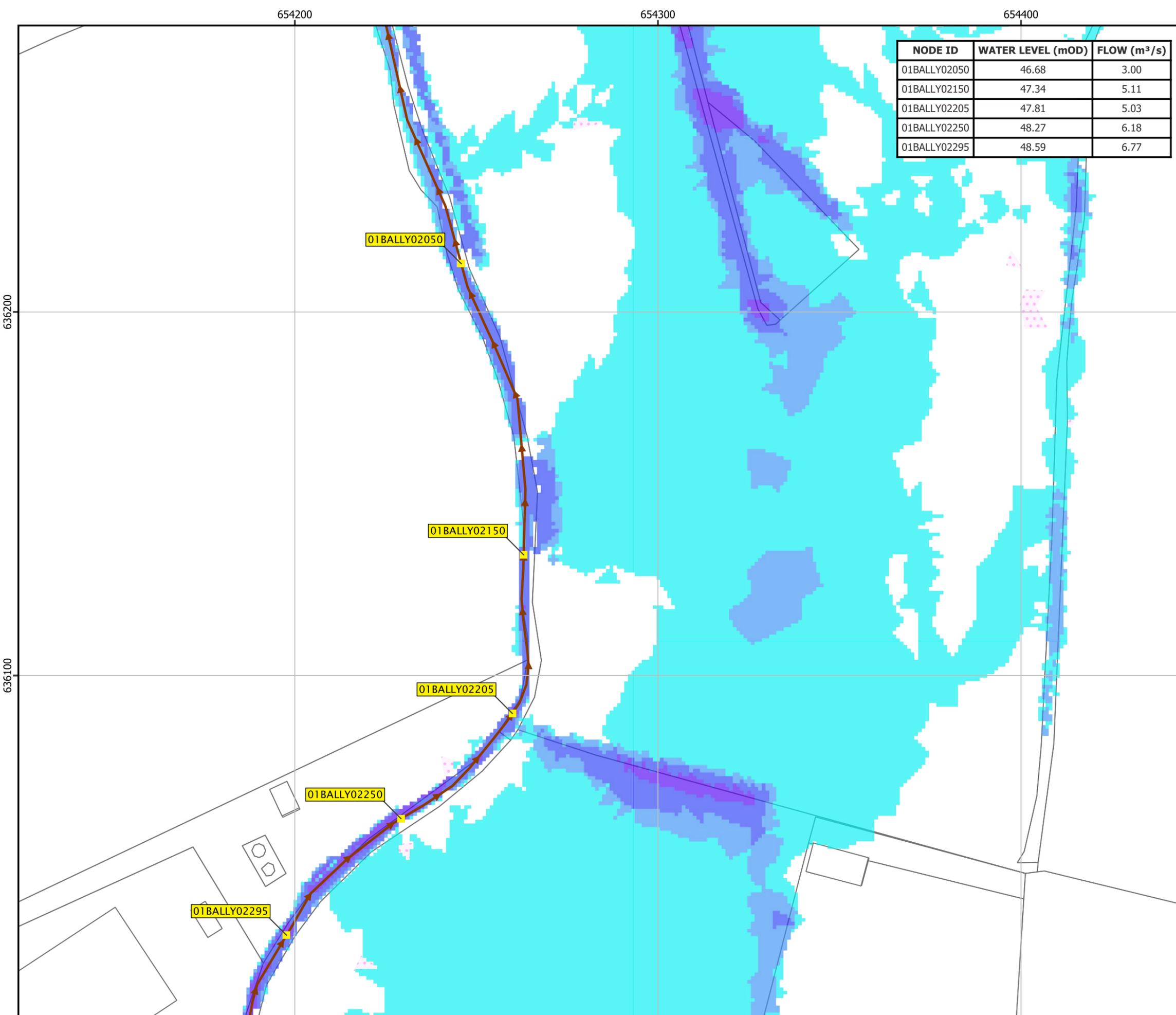
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MAP SERIES: PAGE 4 OF 5

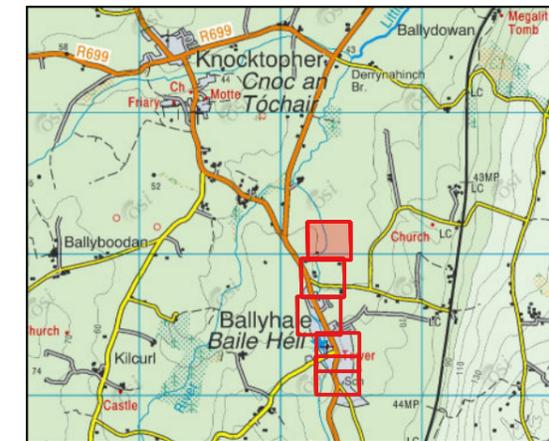
DRAWING SCALE: 1:1000 @ A3

NODE ID	WATER LEVEL (mOD)	FLOW (m <sup>3</sup> /s)
01BALLY02340	48.94	6.69
01BALLY02385	49.28	6.86
01BALLY02430	49.48	7.17
01BALLY02475	49.80	7.58
01BALLY02510	50.18	9.11
01BALLY02555	50.35	9.37
01BALLY02600	50.72	9.35





NODE ID	WATER LEVEL (mOD)	FLOW (m <sup>3</sup> /s)
01BALLY02050	46.68	3.00
01BALLY02150	47.34	5.11
01BALLY02205	47.81	5.03
01BALLY02250	48.27	6.18
01BALLY02295	48.59	6.77



IMPORTANT USER NOTE: MAPS TO BE READ IN CONJUNCTION WITH THE BALLYHAILE FRS HYDRAULICS REPORT.

**LEGEND**

0 - 0.25m	NODE POINT
0.25 - 0.5 m	DEFENDED AREAS
0.50 - 1.0 m	DESIGN GEOMETRIES
1.0 - 1.5 m	CHANNEL REALIGNMENT
1.5 - 2.0 m	CULVERT UPGRADE
>2m	DIVERSION PIPE
MODELLED RIVER CENTRELINE	EMBANKMENT
CULVERTED WATERCOURSE	FLOOD WALL
	WEIR

REV: 02	NOTE: FOR INFORMATION	DATE: 21/12/2022
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 W: www.mcclloyconsulting.ie

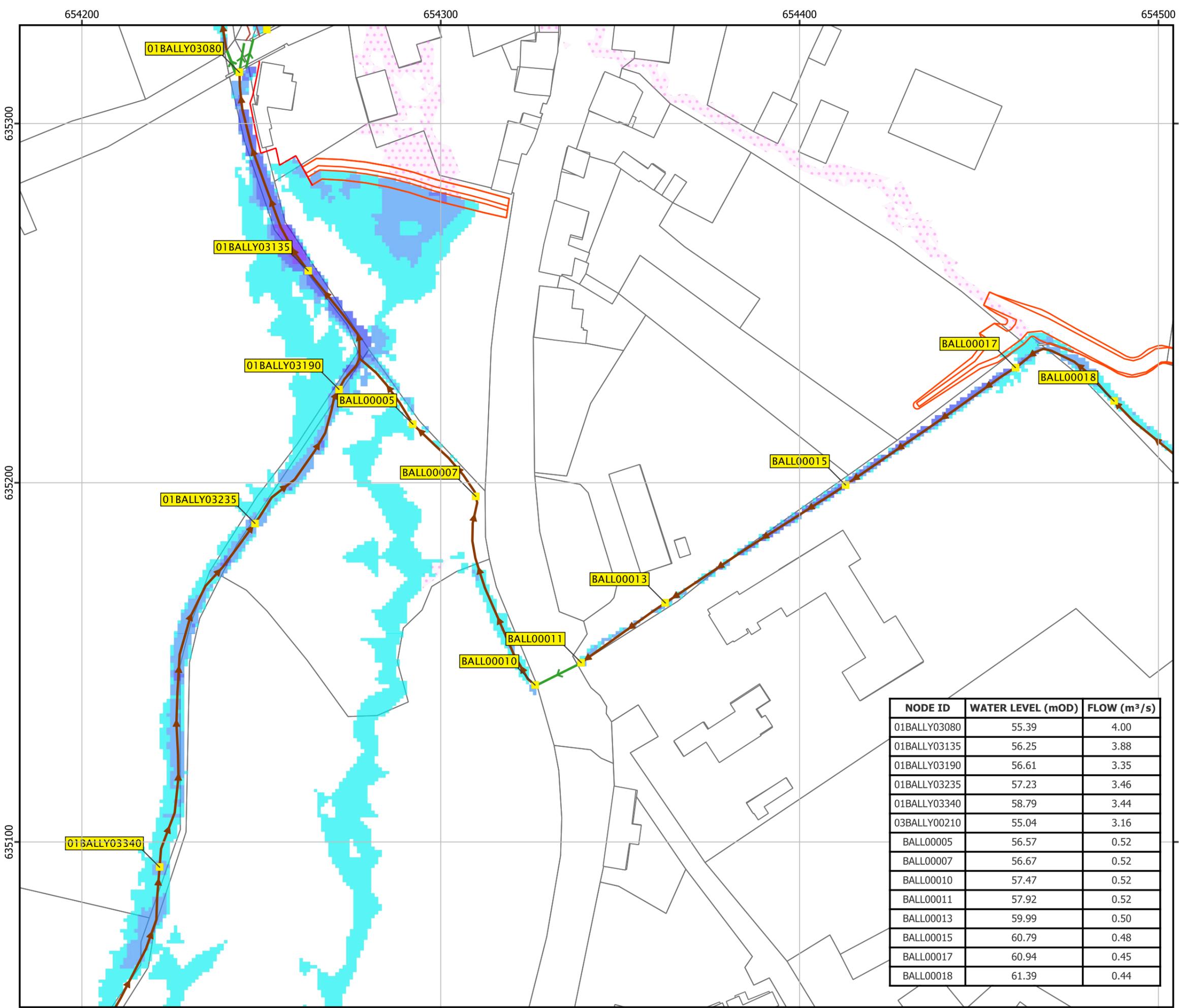
MAP: BALLYHAILE, CO. KILKENNY

FLOOD PROBABILITY:	0.1% AEP	
MAP TYPE:	DEPTH	
SOURCE:	FLUVIAL	
HYDROLOGY SCENARIO:	PRESENT DAY	
GEOMETRY SCENARIO:	DESIGN	
DRAWN BY:	DL	DATE: 21/12/2022
CHECKED BY:	MR	DATE: 21/12/2022
APPROVED BY:	DKS	DATE: 21/12/2022

DRAWING NUMBER: 514\_DPFC\_01\_55

MAP SERIES:	PAGE 5 OF 5
DRAWING SCALE:	1:1000 @ A3





IMPORTANT USER NOTE: MAPS TO BE READ IN CONJUNCTION WITH THE BALLYHAILE FRS HYDRAULICS REPORT.

**LEGEND**

0 - 0.25m	NODE POINT
0.25 - 0.5 m	DEFENDED AREAS
0.50 - 1.0 m	DESIGN GEOMETRIES
1.0 - 1.5 m	CHANNEL REALIGNMENT
1.5 - 2.0 m	CULVERT UPGRADE
>2m	DIVERSION PIPE
MODELLED RIVER CENTRELINE	EMBANKMENT
CULVERTED WATERCOURSE	FLOOD WALL
	WEIR

REV: 02	NOTE: FOR INFORMATION	DATE: 21/12/2022
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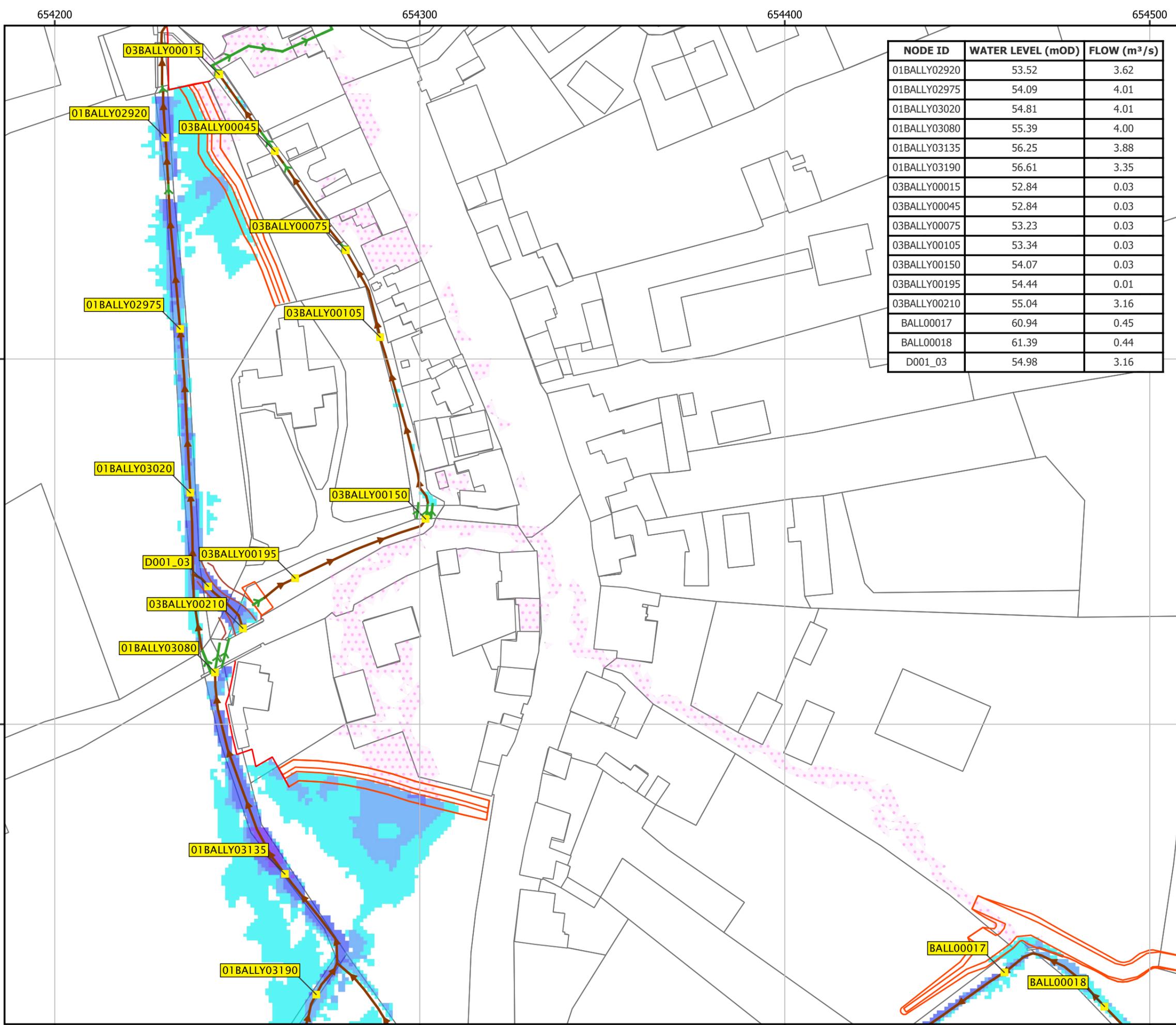
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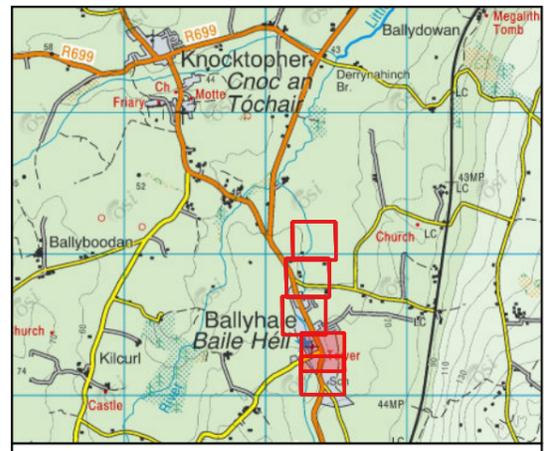
NODE ID	WATER LEVEL (mOD)	FLOW (m³/s)
01BALLY03080	55.39	4.00
01BALLY03135	56.25	3.88
01BALLY03190	56.61	3.35
01BALLY03235	57.23	3.46
01BALLY03340	58.79	3.44
03BALLY00210	55.04	3.16
BALL00005	56.57	0.52
BALL00007	56.67	0.52
BALL00010	57.47	0.52
BALL00011	57.92	0.52
BALL00013	59.99	0.50
BALL00015	60.79	0.48
BALL00017	60.94	0.45
BALL00018	61.39	0.44

MAP: BALLYHAILE, CO. KILKENNY

FLOOD PROBABILITY:	10% AEP	
MAP TYPE:	DEPTH	
SOURCE:	FLUVIAL	
HYDROLOGY SCENARIO:	MRFS	
GEOMETRY SCENARIO:	DESIGN	
DRAWN BY:	DL	DATE: 21/12/2022
CHECKED BY:	MR	DATE: 21/12/2022
APPROVED BY:	DKS	DATE: 21/12/2022
DRAWING NUMBER:	514_DPFM_10_51	
MAP SERIES:	PAGE 1 OF 5	
DRAWING SCALE:	1:1000 @ A3	



NODE ID	WATER LEVEL (mOD)	FLOW (m <sup>3</sup> /s)
01BALLY02920	53.52	3.62
01BALLY02975	54.09	4.01
01BALLY03020	54.81	4.01
01BALLY03080	55.39	4.00
01BALLY03135	56.25	3.88
01BALLY03190	56.61	3.35
03BALLY00015	52.84	0.03
03BALLY00045	52.84	0.03
03BALLY00075	53.23	0.03
03BALLY00105	53.34	0.03
03BALLY00150	54.07	0.03
03BALLY00195	54.44	0.01
03BALLY00210	55.04	3.16
BALL00017	60.94	0.45
BALL00018	61.39	0.44
D001_03	54.98	3.16



IMPORTANT USER NOTE: MAPS TO BE READ IN CONJUNCTION WITH THE BALLYHALE FRS HYDRAULICS REPORT.

**LEGEND**

0 - 0.25m	NODE POINT
0.25 - 0.5 m	DEFENDED AREAS
0.50 - 1.0 m	DESIGN GEOMETRIES
1.0 - 1.5 m	CHANNEL REALIGNMENT
1.5 - 2.0 m	CULVERT UPGRADE
>2m	DIVERSION PIPE
MODELLED RIVER CENTRELINE	EMBANKMENT
CULVERTED WATERCOURSE	FLOOD WALL
	WEIR

REV: 02	NOTE: FOR INFORMATION	DATE: 21/12/2022
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MAP: BALLYHALE, CO. KILKENNY

FLOOD PROBABILITY:	10% AEP	
MAP TYPE:	DEPTH	
SOURCE:	FLUVIAL	
HYDROLOGY SCENARIO:	MRFS	
GEOMETRY SCENARIO:	DESIGN	
DRAWN BY:	DL	DATE: 21/12/2022
CHECKED BY:	MR	DATE: 21/12/2022
APPROVED BY:	DKS	DATE: 21/12/2022

DRAWING NUMBER: 514\_DPFM\_10\_52

MAP SERIES: PAGE 2 OF 5

DRAWING SCALE: 1:1000 @ A3



654100

654200

654300

635700

635700

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635600

635500

635500

654100

654200

654300

0 50 100 METRES



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NODE ID	WATER LEVEL (mOD)	FLOW (m <sup>3</sup> /s)
01BALLY02670	50.95	4.07
01BALLY02730	51.40	4.07
01BALLY02775	51.77	4.07
01BALLY02805	52.05	4.02
01BALLY02870	53.12	4.01
03BALLY00015	52.84	0.03



IMPORTANT USER NOTE: MAPS TO BE READ IN CONJUNCTION WITH THE BALLYHAILE FRs HYDRAULICS REPORT.

**LEGEND**

	0 - 0.25m		NODE POINT
	0.25 - 0.5 m		DEFENDED AREAS
	0.50 - 1.0 m		DESIGN GEOMETRIES
	1.0 - 1.5 m		CHANNEL REALIGNMENT
	1.5 - 2.0 m		CULVERT UPGRADE
	>2m		DIVERSION PIPE
	MODELLED RIVER CENTRELINE		EMBANKMENT
	CULVERTED WATERCOURSE		FLOOD WALL
			WEIR

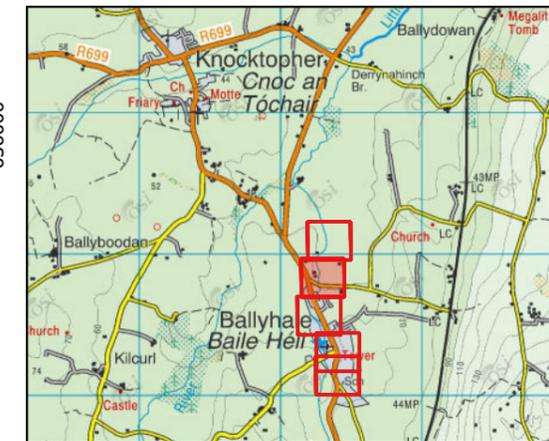
REV: 02	NOTE: FOR INFORMATION	DATE: 21/12/2022
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 W: www.mcclloyconsulting.ie

MAP: BALLYHAILE, CO. KILKENNY		
FLOOD PROBABILITY:	10% AEP	
MAP TYPE:	DEPTH	
SOURCE:	FLUVIAL	
HYDROLOGY SCENARIO:	MRFS	
GEOMETRY SCENARIO:	DESIGN	
DRAWN BY:	DL	DATE: 21/12/2022
CHECKED BY:	MR	DATE: 21/12/2022
APPROVED BY:	DKS	DATE: 21/12/2022
DRAWING NUMBER: 514_DPFM_10_53		
MAP SERIES:	PAGE 3 OF 5	
DRAWING SCALE:	1:1000 @ A3	



IMPORTANT USER NOTE: MAPS TO BE READ IN CONJUNCTION WITH THE BALLYHALE FRS HYDRAULICS REPORT.

**LEGEND**

0 - 0.25m	NODE POINT
0.25 - 0.5 m	DEFENDED AREAS
0.50 - 1.0 m	DESIGN GEOMETRIES
1.0 - 1.5 m	CHANNEL REALIGNMENT
1.5 - 2.0 m	CULVERT UPGRADE
>2m	DIVERSION PIPE
MODELLED RIVER CENTRELINE	EMBANKMENT
CULVERTED WATERCOURSE	FLOOD WALL
	WEIR

REV: 02	NOTE: FOR INFORMATION	DATE: 21/12/2022
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MAP: BALLYHALE, CO. KILKENNY

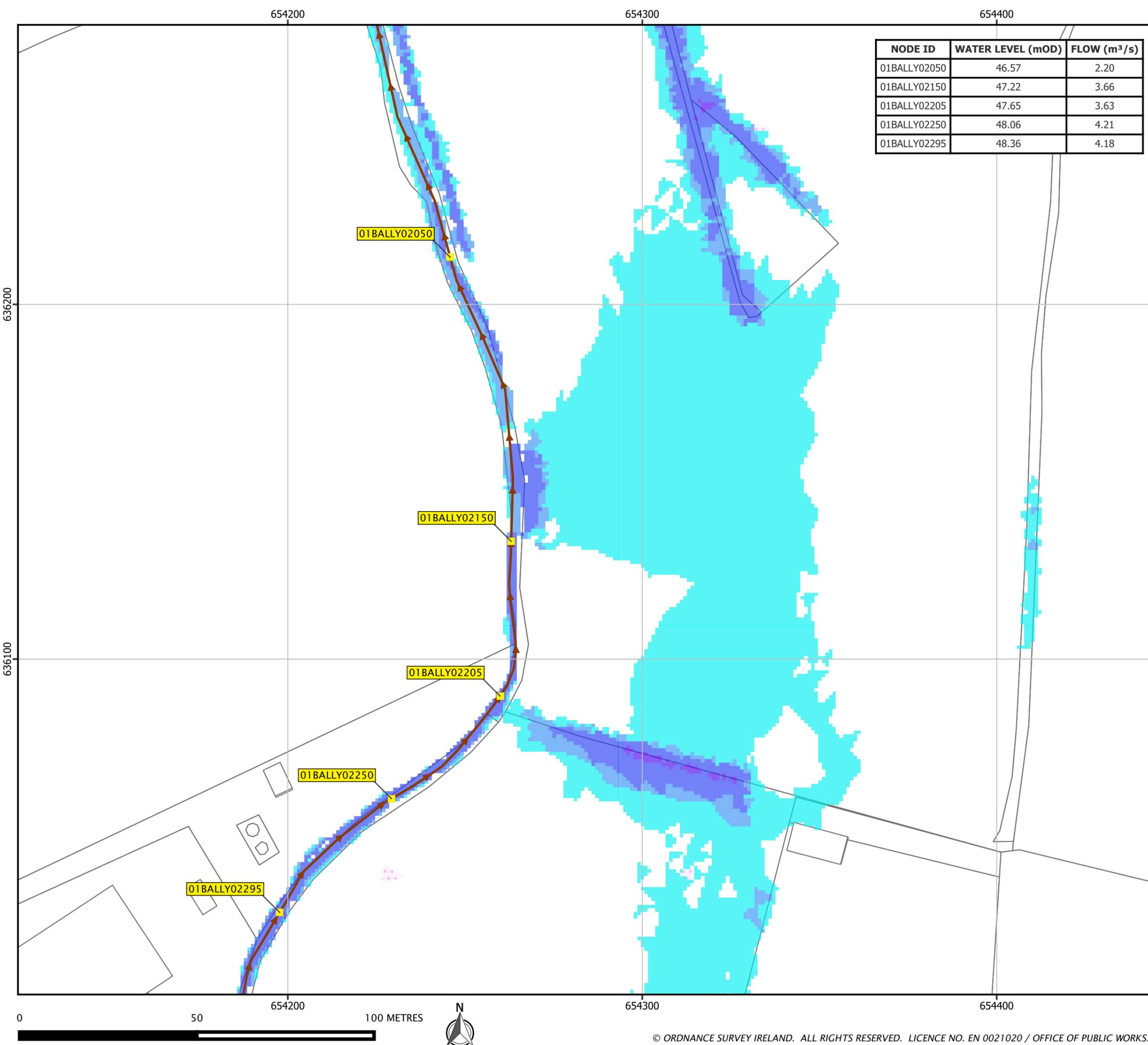
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MAP TYPE:	DEPTH
SOURCE:	FLUVIAL
HYDROLOGY SCENARIO:	MRFS
GEOMETRY SCENARIO:	DESIGN
DRAWN BY:	DL DATE: 21/12/2022
CHECKED BY:	MR DATE: 21/12/2022
APPROVED BY:	DKS DATE: 21/12/2022

DRAWING NUMBER: 514\_DPFM\_10\_54

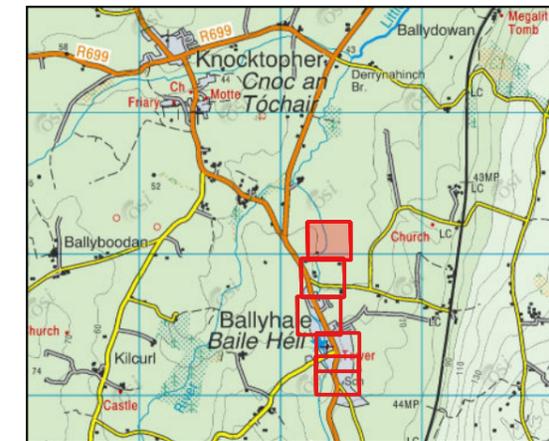
MAP SERIES:	PAGE 4 OF 5
DRAWING SCALE:	1:1000 @ A3

NODE ID	WATER LEVEL (mOD)	FLOW (m <sup>3</sup> /s)
01BALLY02340	48.67	4.14
01BALLY02385	48.99	4.11
01BALLY02430	49.19	4.08
01BALLY02475	49.48	4.06
01BALLY02510	49.71	4.13
01BALLY02555	49.87	4.11
01BALLY02600	50.24	4.09





NODE ID	WATER LEVEL (mOD)	FLOW (m <sup>3</sup> /s)
01BALLY02050	46.57	2.20
01BALLY02150	47.22	3.66
01BALLY02205	47.65	3.63
01BALLY02250	48.06	4.21
01BALLY02295	48.36	4.18



IMPORTANT USER NOTE: MAPS TO BE READ IN CONJUNCTION WITH THE BALLYHALE FRS HYDRAULICS REPORT.

**LEGEND**

0 - 0.25m	NODE POINT
0.25 - 0.5 m	DEFENDED AREAS
0.50 - 1.0 m	DESIGN GEOMETRIES
1.0 - 1.5 m	CHANNEL REALIGNMENT
1.5 - 2.0 m	CULVERT UPGRADE
>2m	DIVERSION PIPE
MODELLED RIVER CENTRELINE	EMBANKMENT
CULVERTED WATERCOURSE	FLOOD WALL
	WEIR

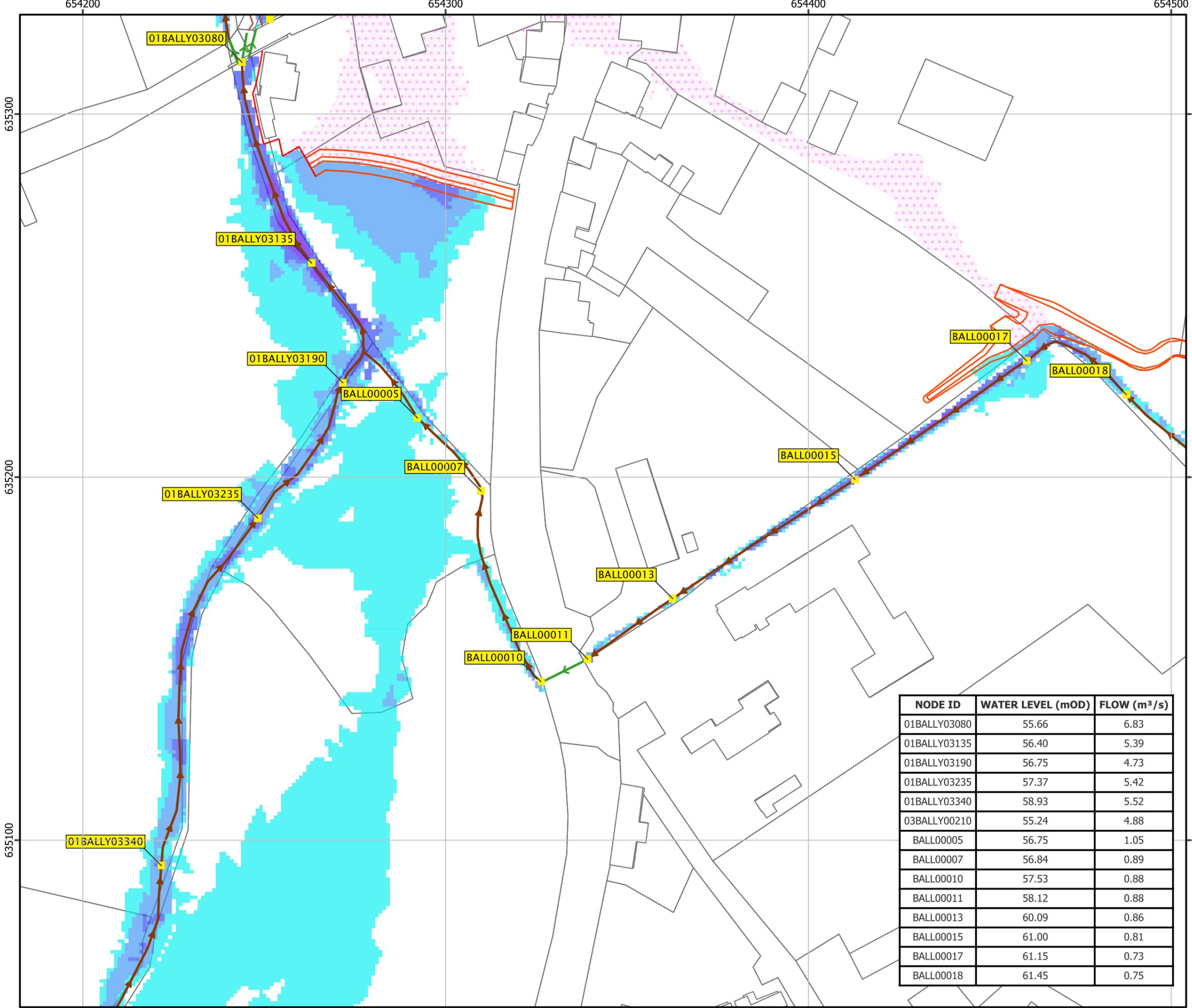
REV: 02	NOTE: FOR INFORMATION	DATE: 21/12/2022
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MAP: BALLYHALE, CO. KILKENNY	
FLOOD PROBABILITY:	10% AEP
MAP TYPE:	DEPTH
SOURCE:	FLUVIAL
HYDROLOGY SCENARIO:	MRFS
GEOMETRY SCENARIO:	DESIGN
DRAWN BY:	DL DATE: 21/12/2022
CHECKED BY:	MR DATE: 21/12/2022
APPROVED BY:	DKS DATE: 21/12/2022
DRAWING NUMBER: 514_DPFM_10_55	
MAP SERIES:	PAGE 5 OF 5
DRAWING SCALE:	1:1000 @ A3



IMPORTANT USER NOTE: MAPS TO BE READ IN CONJUNCTION WITH THE BALLYHALE FRS HYDRAULICS REPORT.

**LEGEND**

0 - 0.25m	NODE POINT
0.25 - 0.5 m	DEFENDED AREAS
0.50 - 1.0 m	DESIGN GEOMETRIES
1.0 - 1.5 m	CHANNEL REALIGNMENT
1.5 - 2.0 m	CULVERT UPGRADE
>2m	DIVERSION PIPE
MODELLED RIVER CENTRELINE	EMBANKMENT
CULVERTED WATERCOURSE	FLOOD WALL
	WEIR

REV: 02	NOTE: FOR INFORMATION	DATE: 21/12/2022
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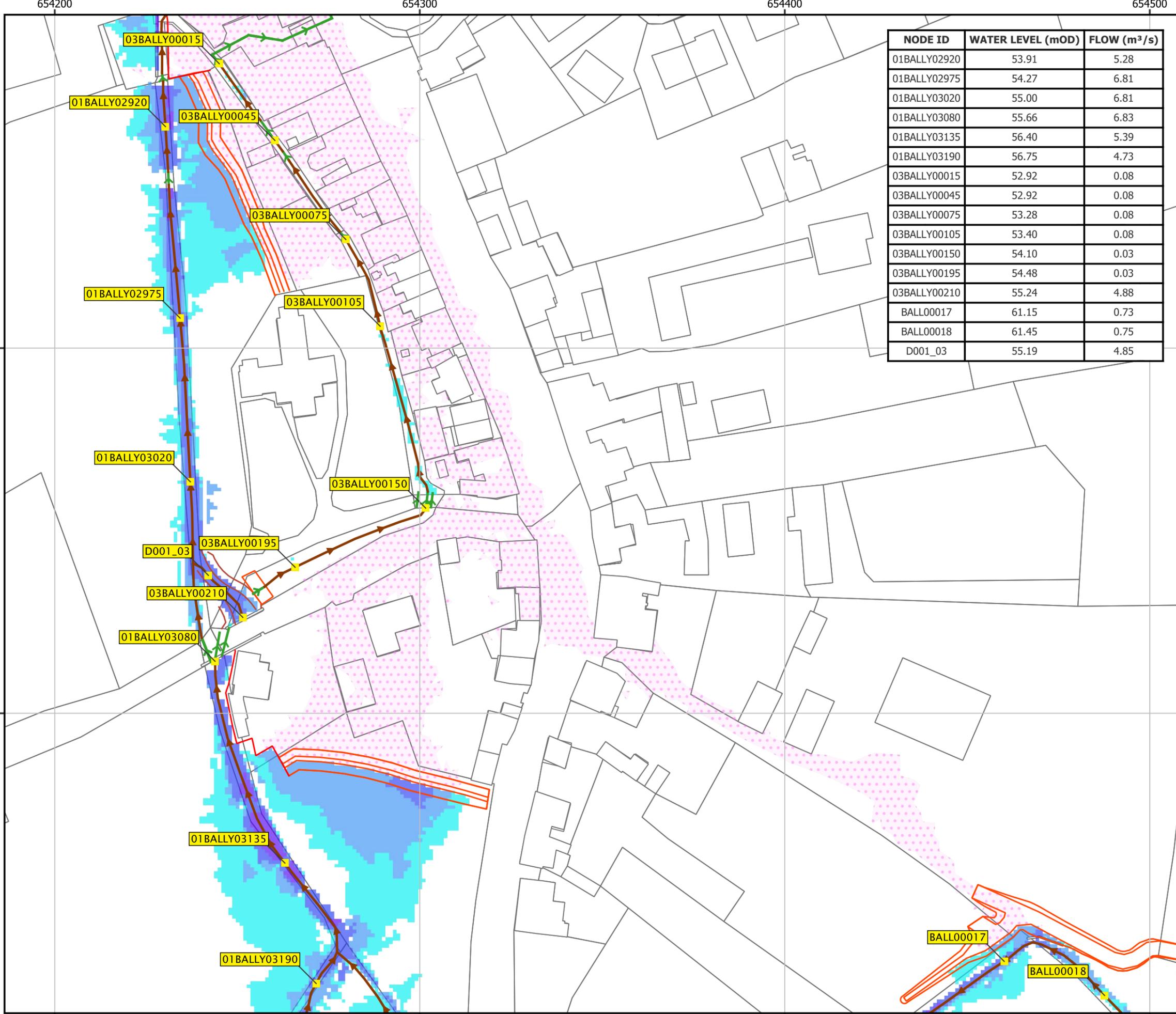


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 T: +353 (0)1 5138963 E: info@mcclloyconsulting.ie W: www.mcclloyconsulting.ie

NODE ID	WATER LEVEL (mOD)	FLOW (m³/s)
01BALLY03080	55.66	6.83
01BALLY03135	56.40	5.39
01BALLY03190	56.75	4.73
01BALLY03235	57.37	5.42
01BALLY03340	58.93	5.52
03BALLY00210	55.24	4.88
BALL00005	56.75	1.05
BALL00007	56.84	0.89
BALL00010	57.53	0.88
BALL00011	58.12	0.88
BALL00013	60.09	0.86
BALL00015	61.00	0.81
BALL00017	61.15	0.73
BALL00018	61.45	0.75

MAP: BALLYHALE, CO. KILKENNY

FLOOD PROBABILITY:	1% AEP
MAP TYPE:	DEPTH
SOURCE:	FLUVIAL
HYDROLOGY SCENARIO:	MRFS
GEOMETRY SCENARIO:	DESIGN
DRAWN BY:	DL DATE: 21/12/2022
CHECKED BY:	MR DATE: 21/12/2022
APPROVED BY:	DKS DATE: 21/12/2022
DRAWING NUMBER:	514-DPFM_1_51
MAP SERIES:	PAGE 1 OF 5
DRAWING SCALE:	1:1000 @ A3



NODE ID	WATER LEVEL (mOD)	FLOW (m³/s)
01BALLY02920	53.91	5.28
01BALLY02975	54.27	6.81
01BALLY03020	55.00	6.81
01BALLY03080	55.66	6.83
01BALLY03135	56.40	5.39
01BALLY03190	56.75	4.73
03BALLY00015	52.92	0.08
03BALLY00045	52.92	0.08
03BALLY00075	53.28	0.08
03BALLY00105	53.40	0.08
03BALLY00150	54.10	0.03
03BALLY00195	54.48	0.03
03BALLY00210	55.24	4.88
BALL00017	61.15	0.73
BALL00018	61.45	0.75
D001_03	55.19	4.85



IMPORTANT USER NOTE: MAPS TO BE READ IN CONJUNCTION WITH THE BALLYHALE FRS HYDRAULICS REPORT.

**LEGEND**

0 - 0.25m	NODE POINT
0.25 - 0.5 m	DEFENDED AREAS
0.50 - 1.0 m	DESIGN GEOMETRIES
1.0 - 1.5 m	CHANNEL REALIGNMENT
1.5 - 2.0 m	CULVERT UPGRADE
>2m	DIVERSION PIPE
MODELLED RIVER CENTRELINE	EMBANKMENT
CULVERTED WATERCOURSE	FLOOD WALL
	WEIR

REV: 02	NOTE: FOR INFORMATION	DATE: 21/12/2022
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MAP: BALLYHALE, CO. KILKENNY

FLOOD PROBABILITY:	1% AEP	
MAP TYPE:	DEPTH	
SOURCE:	FLUVIAL	
HYDROLOGY SCENARIO:	MRFS	
GEOMETRY SCENARIO:	DESIGN	
DRAWN BY:	DL	DATE: 21/12/2022
CHECKED BY:	MR	DATE: 21/12/2022
APPROVED BY:	DKS	DATE: 21/12/2022

DRAWING NUMBER: 514-DPFM\_1\_52

MAP SERIES: PAGE 2 OF 5

DRAWING SCALE: 1:1000 @ A3



654100

654200

654300

635700

635700

635600

635600

635500

635500

654100

654200

654300

0 50 100 METRES



NODE ID	WATER LEVEL (mOD)	FLOW (m <sup>3</sup> /s)
01BALLY02670	51.29	6.94
01BALLY02730	51.72	6.93
01BALLY02775	52.09	6.93
01BALLY02805	52.36	6.82
01BALLY02870	53.51	6.81
03BALLY00015	52.92	0.08



IMPORTANT USER NOTE: MAPS TO BE READ IN CONJUNCTION WITH THE BALLYHALE FRS HYDRAULICS REPORT.

**LEGEND**

	0 - 0.25m		NODE POINT
	0.25 - 0.5 m		DEFENDED AREAS
	0.50 - 1.0 m		DESIGN GEOMETRIES
	1.0 - 1.5 m		CHANNEL REALIGNMENT
	1.5 - 2.0 m		CULVERT UPGRADE
	>2m		DIVERSION PIPE
	MODELLED RIVER CENTRELINE		EMBANKMENT
	CULVERTED WATERCOURSE		FLOOD WALL
			WEIR

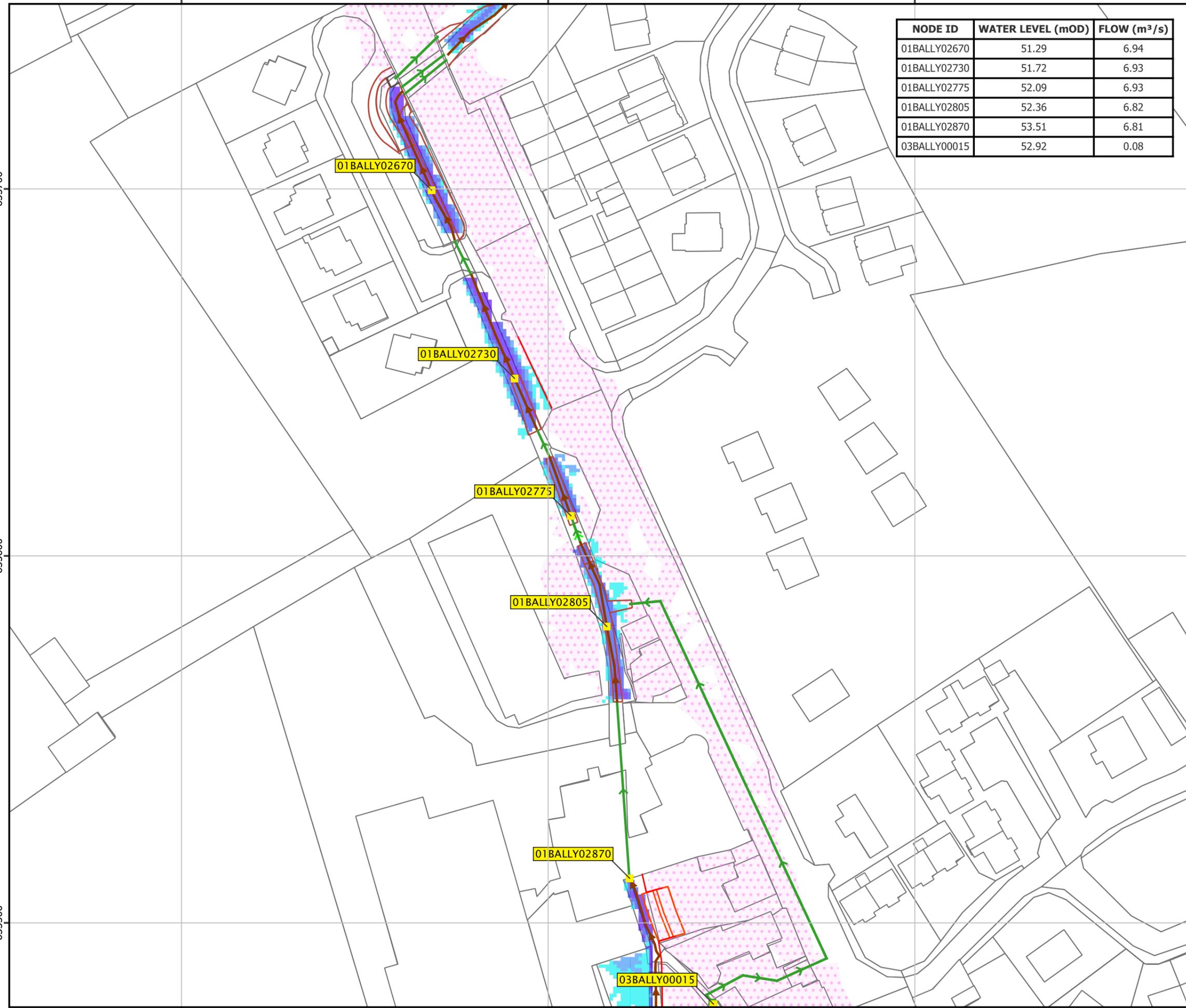
REV: 02	NOTE: FOR INFORMATION	DATE: 21/12/2022
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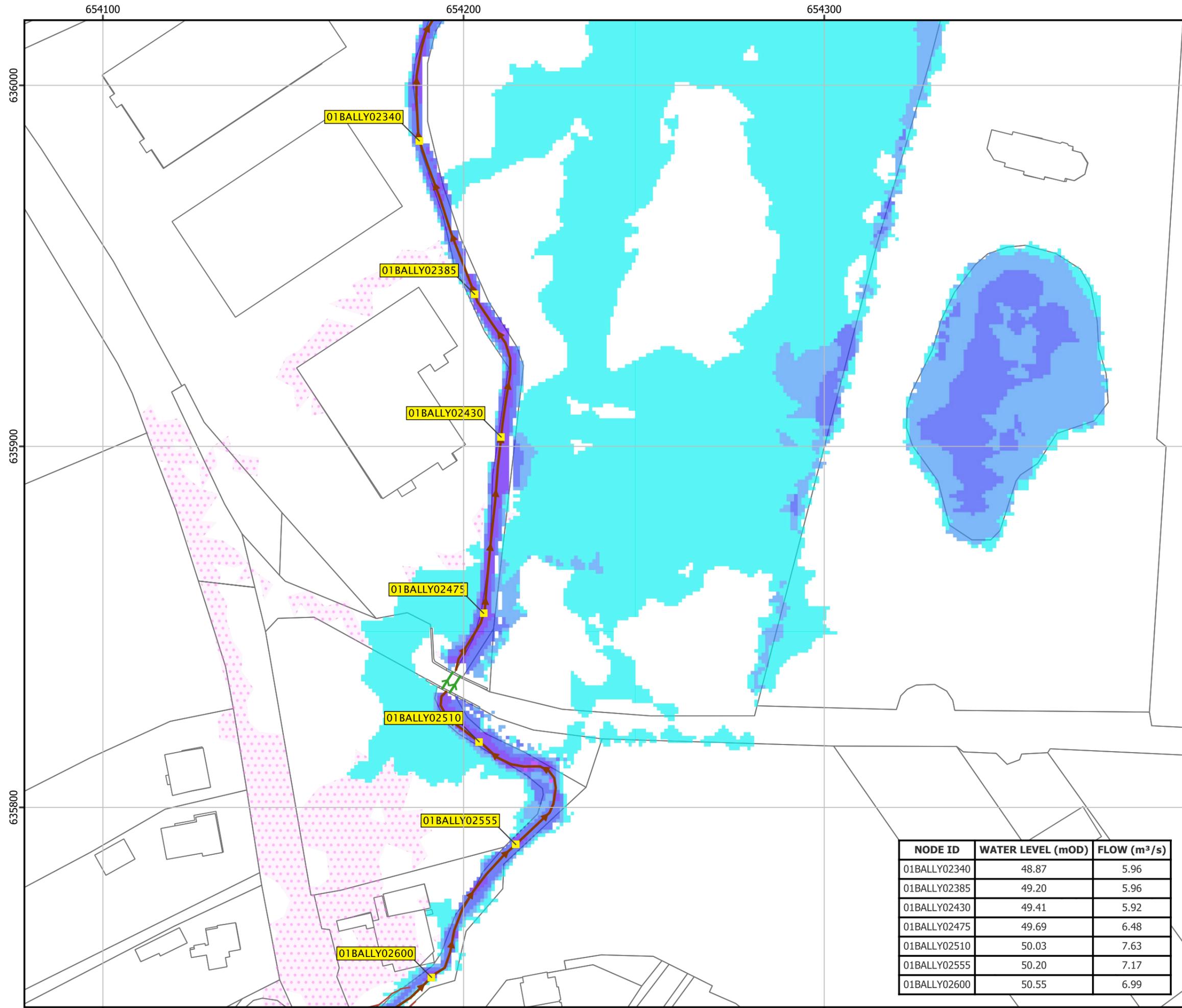


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MAP: BALLYHALE, CO. KILKENNY		
FLOOD PROBABILITY:	1% AEP	
MAP TYPE:	DEPTH	
SOURCE:	FLUVIAL	
HYDROLOGY SCENARIO:	MRFS	
GEOMETRY SCENARIO:	DESIGN	
DRAWN BY:	DL	DATE: 21/12/2022
CHECKED BY:	MR	DATE: 21/12/2022
APPROVED BY:	DKS	DATE: 21/12/2022
DRAWING NUMBER: 514-DPFM_1_53		
MAP SERIES:	PAGE 3 OF 5	
DRAWING SCALE:	1:1000 @ A3	





IMPORTANT USER NOTE: MAPS TO BE READ IN CONJUNCTION WITH THE BALLYHAILE FRS HYDRAULICS REPORT.

**LEGEND**

0 - 0.25m	NODE POINT
0.25 - 0.5 m	DEFENDED AREAS
0.50 - 1.0 m	DESIGN GEOMETRIES
1.0 - 1.5 m	CHANNEL REALIGNMENT
1.5 - 2.0 m	CULVERT UPGRADE
>2m	DIVERSION PIPE
MODELLED RIVER CENTRELINE	EMBANKMENT
CULVERTED WATERCOURSE	FLOOD WALL
	WEIR

REV: 02	NOTE: FOR INFORMATION	DATE: 21/12/2022
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 W: www.mccloyconsulting.ie

MAP: BALLYHAILE, CO. KILKENNY

FLOOD PROBABILITY:	1% AEP	
MAP TYPE:	DEPTH	
SOURCE:	FLUVIAL	
HYDROLOGY SCENARIO:	MRFS	
GEOMETRY SCENARIO:	DESIGN	
DRAWN BY:	DL	DATE: 21/12/2022
CHECKED BY:	MR	DATE: 21/12/2022
APPROVED BY:	DKS	DATE: 21/12/2022

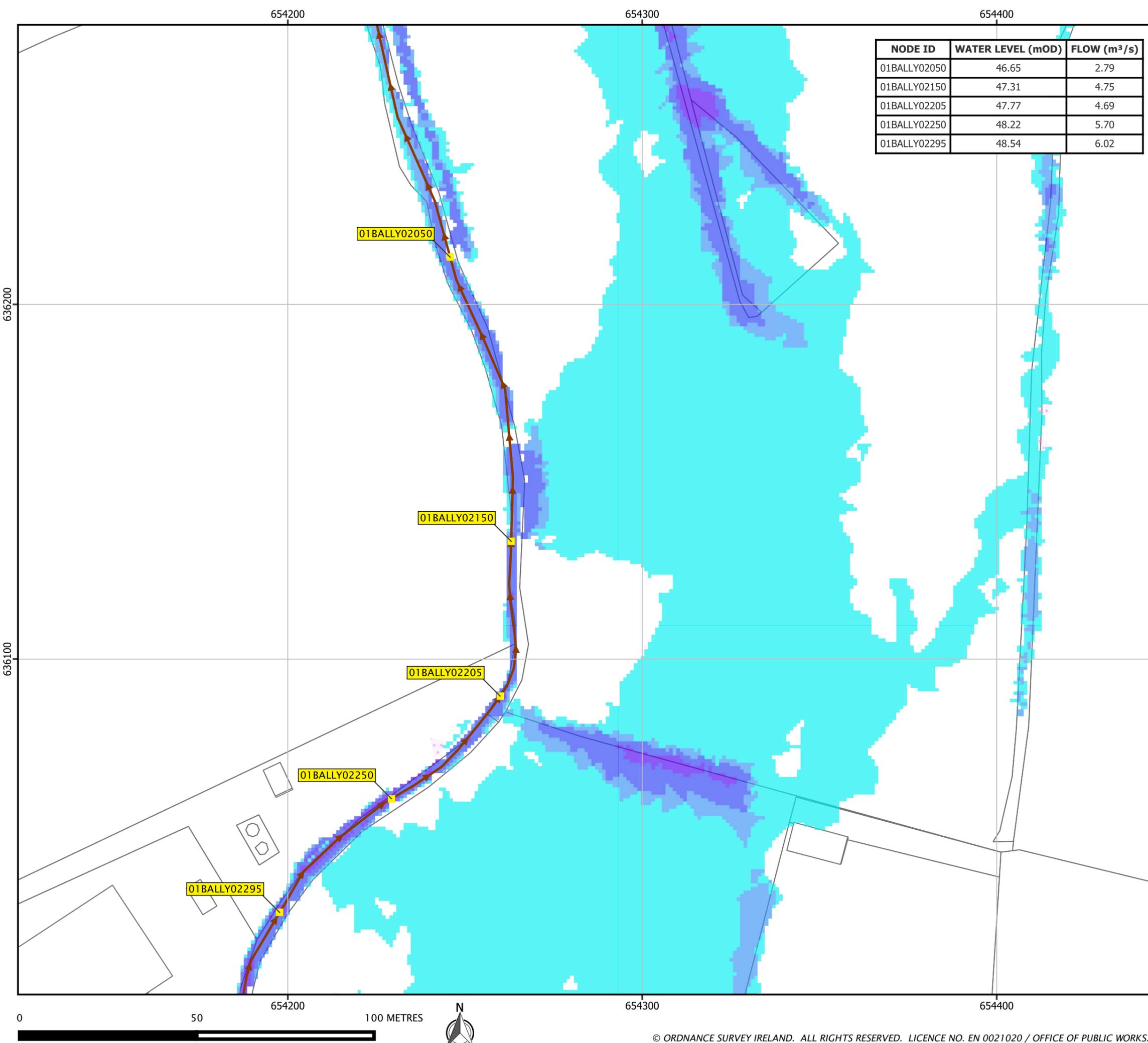
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MAP SERIES: PAGE 4 OF 5

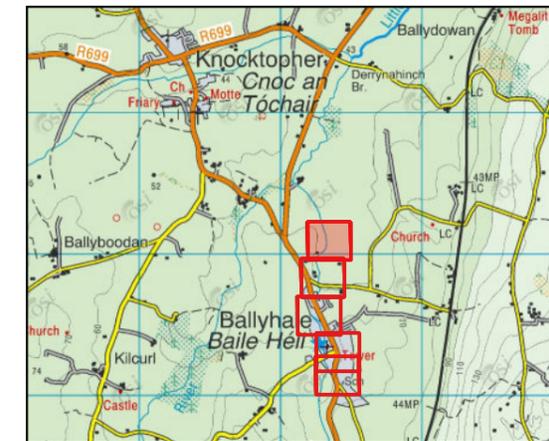
DRAWING SCALE: 1:1000 @ A3

NODE ID	WATER LEVEL (mOD)	FLOW (m <sup>3</sup> /s)
01BALLY02340	48.87	5.96
01BALLY02385	49.20	5.96
01BALLY02430	49.41	5.92
01BALLY02475	49.69	6.48
01BALLY02510	50.03	7.63
01BALLY02555	50.20	7.17
01BALLY02600	50.55	6.99





NODE ID	WATER LEVEL (mOD)	FLOW (m <sup>3</sup> /s)
01BALLY02050	46.65	2.79
01BALLY02150	47.31	4.75
01BALLY02205	47.77	4.69
01BALLY02250	48.22	5.70
01BALLY02295	48.54	6.02



IMPORTANT USER NOTE: MAPS TO BE READ IN CONJUNCTION WITH THE BALLYHAILE FRS HYDRAULICS REPORT.

**LEGEND**

0 - 0.25m	NODE POINT
0.25 - 0.5 m	DEFENCED AREAS
0.50 - 1.0 m	DESIGN GEOMETRIES
1.0 - 1.5 m	CHANNEL REALIGNMENT
1.5 - 2.0 m	CULVERT UPGRADE
>2m	DIVERSION PIPE
MODELLED RIVER CENTRELINE	EMBANKMENT
CULVERTED WATERCOURSE	FLOOD WALL
	WEIR

REV: 02	NOTE: FOR INFORMATION	DATE: 21/12/2022
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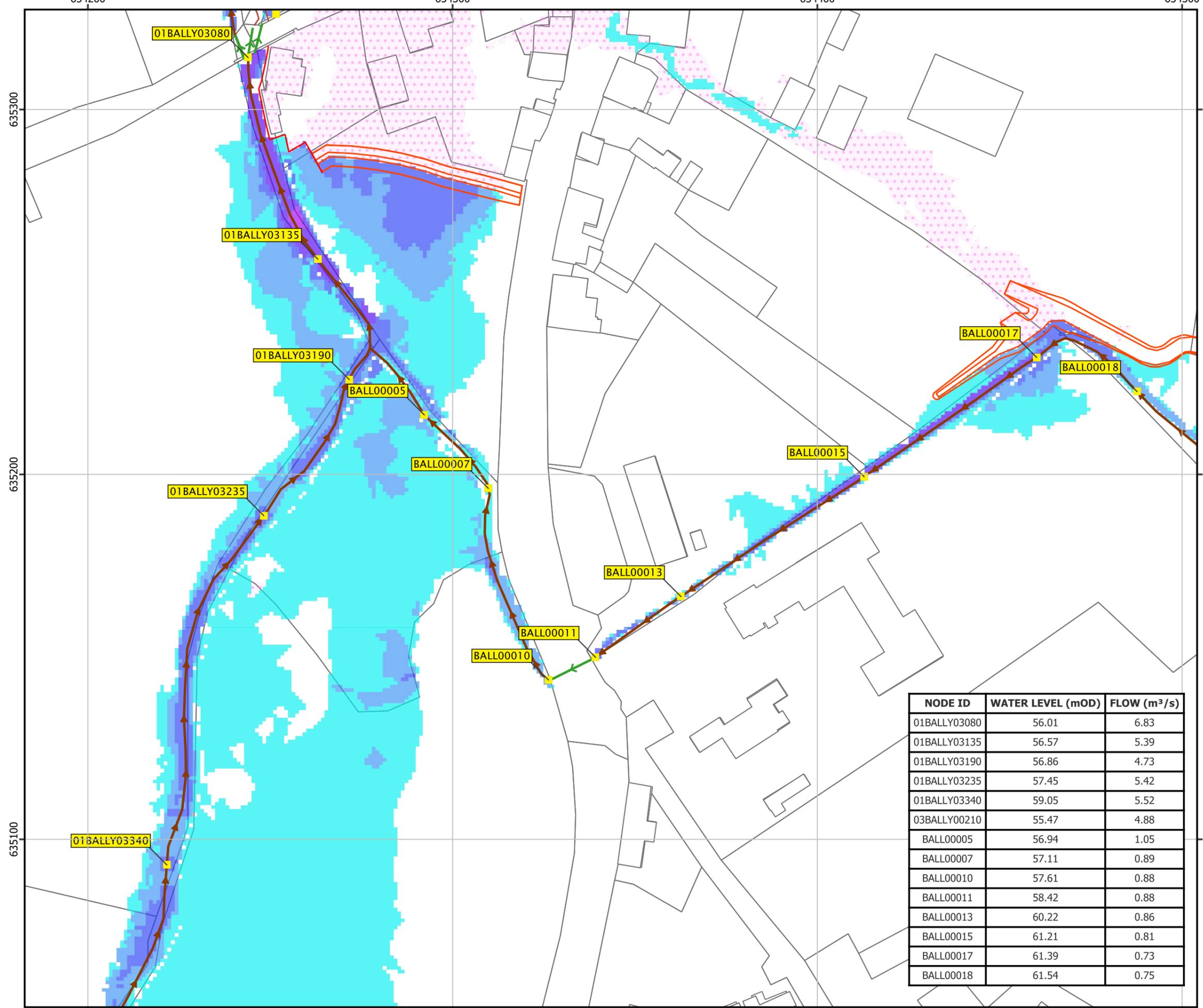


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 W: www.mcclloyconsulting.ie

MAP: BALLYHAILE, CO. KILKENNY	
FLOOD PROBABILITY:	1% AEP
MAP TYPE:	DEPTH
SOURCE:	FLUVIAL
HYDROLOGY SCENARIO:	MRFS
GEOMETRY SCENARIO:	DESIGN
DRAWN BY:	DL DATE: 21/12/2022
CHECKED BY:	MR DATE: 21/12/2022
APPROVED BY:	DKS DATE: 21/12/2022
DRAWING NUMBER: 514_DPFM_1_55	
MAP SERIES:	PAGE 5 OF 5
DRAWING SCALE:	1:1000 @ A3





IMPORTANT USER NOTE: MAPS TO BE READ IN CONJUNCTION WITH THE BALLYHALE FRS HYDRAULICS REPORT.

**LEGEND**

0 - 0.25m	NODE POINT
0.25 - 0.5 m	DEFENDED AREAS
0.50 - 1.0 m	DESIGN GEOMETRIES
1.0 - 1.5 m	CHANNEL REALIGNMENT
1.5 - 2.0 m	CULVERT UPGRADE
>2m	DIVERSION PIPE
MODELLED RIVER CENTRELINE	EMBANKMENT
CULVERTED WATERCOURSE	FLOOD WALL
	WEIR

REV: 02	NOTE: FOR INFORMATION	DATE: 21/12/2022
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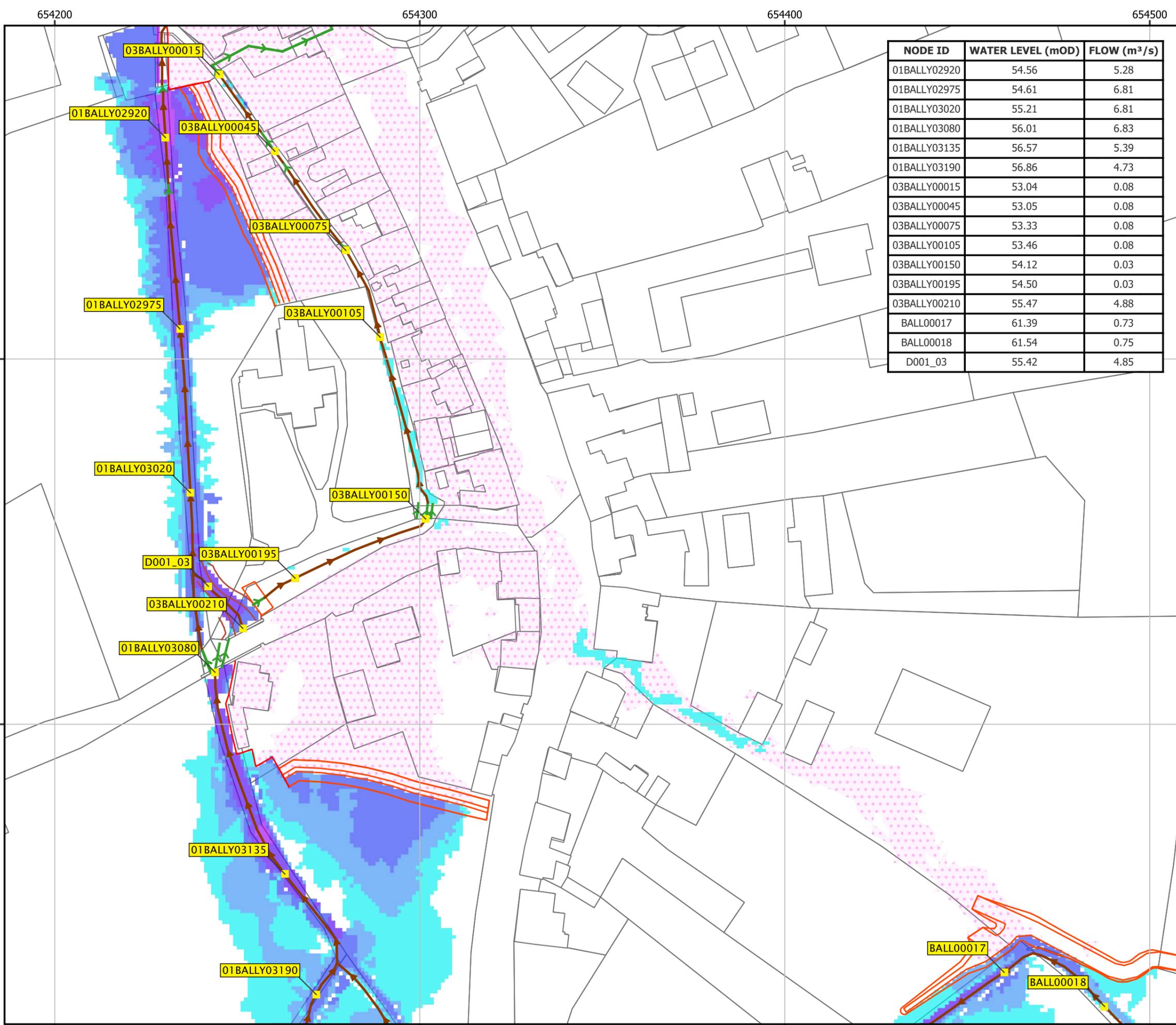
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 E: info@mcclloyconsulting.ie  
 W: www.mcclloyconsulting.ie

NODE ID	WATER LEVEL (mOD)	FLOW (m³/s)
01BALLY03080	56.01	6.83
01BALLY03135	56.57	5.39
01BALLY03190	56.86	4.73
01BALLY03235	57.45	5.42
01BALLY03340	59.05	5.52
03BALLY00210	55.47	4.88
BALL00005	56.94	1.05
BALL00007	57.11	0.89
BALL00010	57.61	0.88
BALL00011	58.42	0.88
BALL00013	60.22	0.86
BALL00015	61.21	0.81
BALL00017	61.39	0.73
BALL00018	61.54	0.75



DRAWING NUMBER: 514\_DPFM\_01\_51

MAP SERIES:	PAGE 1 OF 5
DRAWING SCALE:	1:1000 @ A3



NODE ID	WATER LEVEL (mOD)	FLOW (m³/s)
01BALLY02920	54.56	5.28
01BALLY02975	54.61	6.81
01BALLY03020	55.21	6.81
01BALLY03080	56.01	6.83
01BALLY03135	56.57	5.39
01BALLY03190	56.86	4.73
03BALLY00015	53.04	0.08
03BALLY00045	53.05	0.08
03BALLY00075	53.33	0.08
03BALLY00105	53.46	0.08
03BALLY00150	54.12	0.03
03BALLY00195	54.50	0.03
03BALLY00210	55.47	4.88
BALL00017	61.39	0.73
BALL00018	61.54	0.75
D001_03	55.42	4.85



IMPORTANT USER NOTE: MAPS TO BE READ IN CONJUNCTION WITH THE BALLYHALE FRS HYDRAULICS REPORT.

**LEGEND**

	0 - 0.25m		NODE POINT
	0.25 - 0.5 m		DEFENDED AREAS
	0.50 - 1.0 m		DESIGN GEOMETRIES
	1.0 - 1.5 m		CHANNEL REALIGNMENT
	1.5 - 2.0 m		CULVERT UPGRADE
	>2m		DIVERSION PIPE
	MODELLED RIVER CENTRELINE		EMBANKMENT
	CULVERTED WATERCOURSE		FLOOD WALL
			WEIR

REV: 02	NOTE: FOR INFORMATION	DATE: 21/12/2022
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 W: www.mcclloyconsulting.ie

MAP: BALLYHALE, CO. KILKENNY	
FLOOD PROBABILITY:	0.1% AEP
MAP TYPE:	DEPTH
SOURCE:	FLUVIAL
HYDROLOGY SCENARIO:	MRFS
GEOMETRY SCENARIO:	DESIGN
DRAWN BY:	DL DATE: 21/12/2022
CHECKED BY:	MR DATE: 21/12/2022
APPROVED BY:	DKS DATE: 21/12/2022
DRAWING NUMBER: 514_DPFM_01_52	
MAP SERIES:	PAGE 2 OF 5
DRAWING SCALE:	1:1000 @ A3



654100

654200

654300

635700

635700

635600

635600

635500

635500

654100

654200

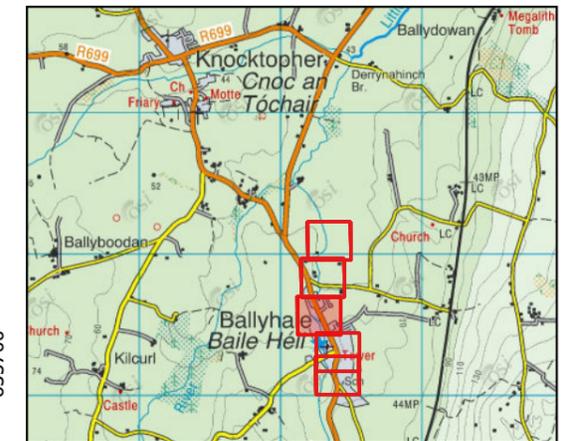
654300

0 50 100 METRES



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NODE ID	WATER LEVEL (mOD)	FLOW (m³/s)
01BALLY02670	51.76	6.94
01BALLY02730	52.23	6.93
01BALLY02775	52.69	6.93
01BALLY02805	52.91	6.82
01BALLY02870	54.19	6.81
03BALLY00015	53.04	0.08



IMPORTANT USER NOTE: MAPS TO BE READ IN CONJUNCTION WITH THE BALLYHALE FRS HYDRAULICS REPORT.

**LEGEND**

	0 - 0.25m		NODE POINT
	0.25 - 0.5 m		DEFENDED AREAS
	0.50 - 1.0 m		DESIGN GEOMETRIES
	1.0 - 1.5 m		CHANNEL REALIGNMENT
	1.5 - 2.0 m		CULVERT UPGRADE
	>2m		DIVERSION PIPE
	MODELLED RIVER CENTRELINE		EMBANKMENT
	CULVERTED WATERCOURSE		FLOOD WALL
			WEIR

REV: 02	NOTE: FOR INFORMATION	DATE: 21/12/2022
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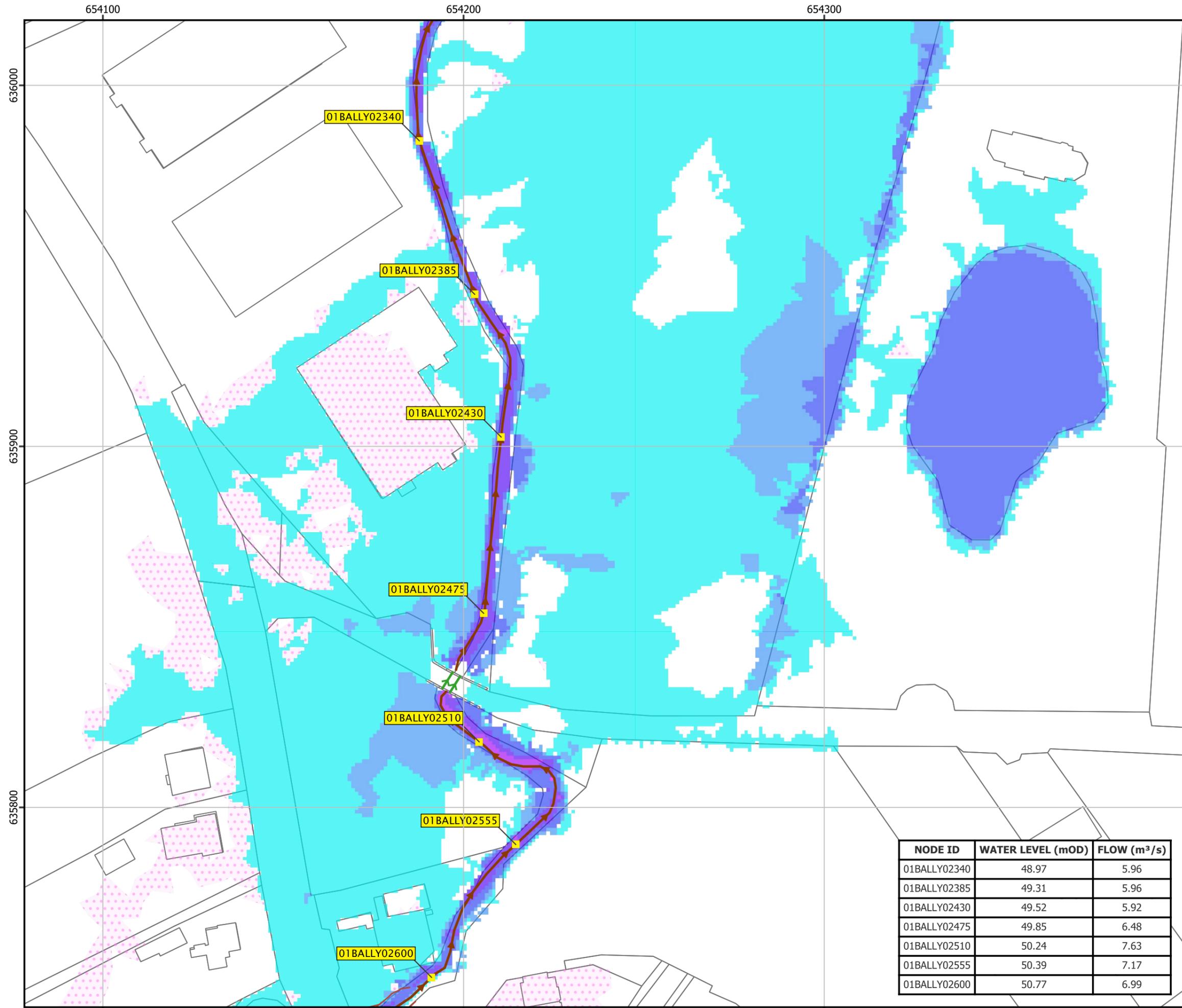
MAP: BALLYHALE, CO. KILKENNY

FLOOD PROBABILITY:	0.1% AEP
MAP TYPE:	DEPTH
SOURCE:	FLUVIAL
HYDROLOGY SCENARIO:	MRFS
GEOMETRY SCENARIO:	DESIGN
DRAWN BY:	DL DATE: 21/12/2022
CHECKED BY:	MR DATE: 21/12/2022
APPROVED BY:	DKS DATE: 21/12/2022

DRAWING NUMBER: 514\_DPFM\_01\_53

MAP SERIES: PAGE 3 OF 5

DRAWING SCALE: 1:1000 @ A3



IMPORTANT USER NOTE: MAPS TO BE READ IN CONJUNCTION WITH THE BALLYHAILE FRS HYDRAULICS REPORT.

**LEGEND**

0 - 0.25m	NODE POINT
0.25 - 0.5 m	DEFENDED AREAS
0.50 - 1.0 m	DESIGN GEOMETRIES
1.0 - 1.5 m	CHANNEL REALIGNMENT
1.5 - 2.0 m	CULVERT UPGRADE
>2m	DIVERSION PIPE
MODELLED RIVER CENTRELINE	EMBANKMENT
CULVERTED WATERCOURSE	FLOOD WALL
	WEIR

REV: 02	NOTE: FOR INFORMATION	DATE: 21/12/2022
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 W: www.mccloyconsulting.ie

MAP: BALLYHAILE, CO. KILKENNY

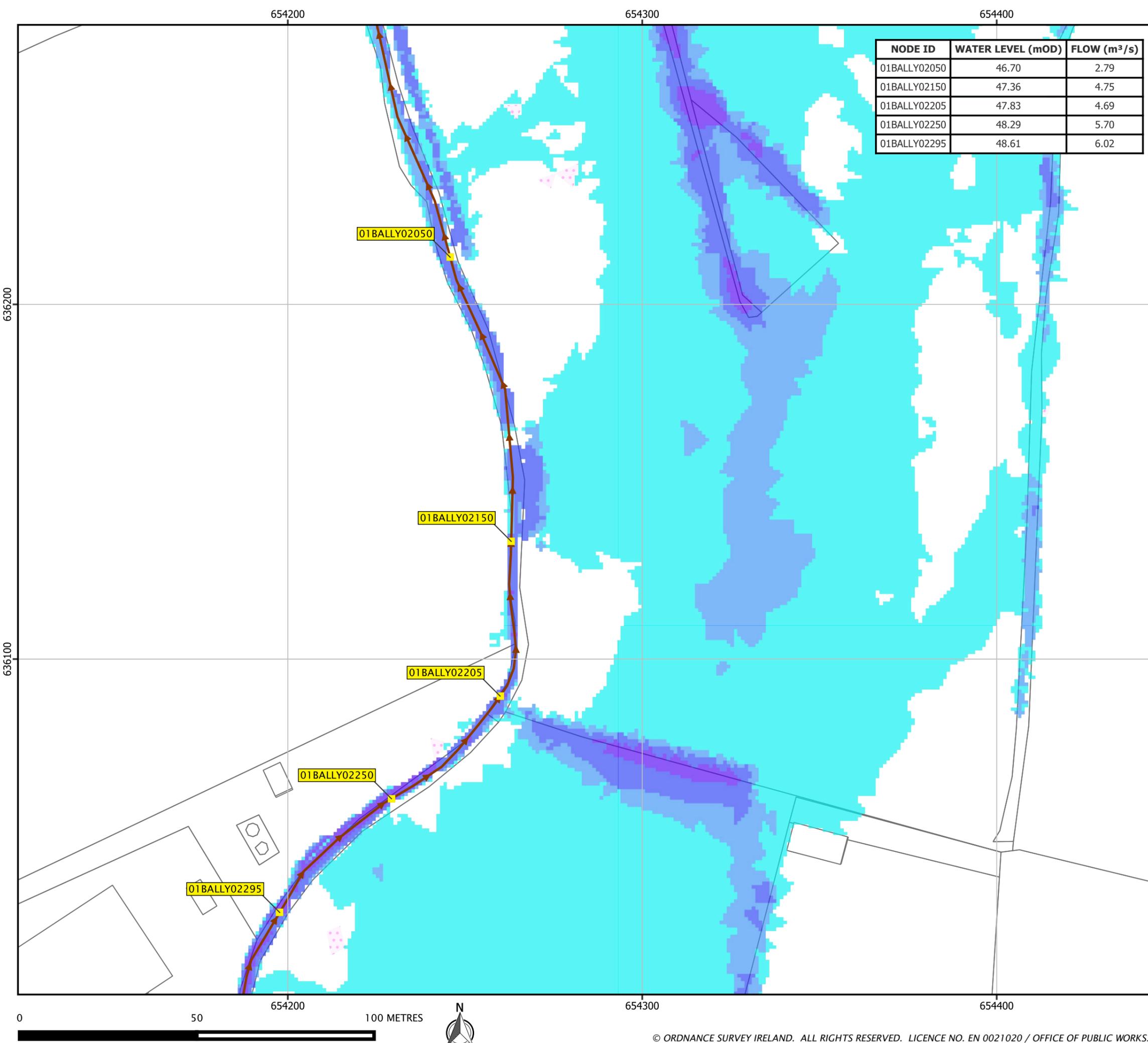
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MAP TYPE:	DEPTH	
SOURCE:	FLUVIAL	
HYDROLOGY SCENARIO:	MRFS	
GEOMETRY SCENARIO:	DESIGN	
DRAWN BY:	DL	DATE: 21/12/2022
CHECKED BY:	MR	DATE: 21/12/2022
APPROVED BY:	DKS	DATE: 21/12/2022

DRAWING NUMBER: 514\_DPFM\_01\_54

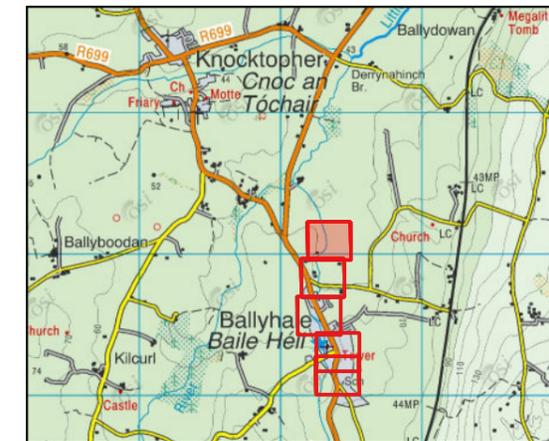
MAP SERIES:	PAGE 4 OF 5
DRAWING SCALE:	1:1000 @ A3

NODE ID	WATER LEVEL (mOD)	FLOW (m <sup>3</sup> /s)
01BALLY02340	48.97	5.96
01BALLY02385	49.31	5.96
01BALLY02430	49.52	5.92
01BALLY02475	49.85	6.48
01BALLY02510	50.24	7.63
01BALLY02555	50.39	7.17
01BALLY02600	50.77	6.99





NODE ID	WATER LEVEL (mOD)	FLOW (m <sup>3</sup> /s)
01BALLY02050	46.70	2.79
01BALLY02150	47.36	4.75
01BALLY02205	47.83	4.69
01BALLY02250	48.29	5.70
01BALLY02295	48.61	6.02



IMPORTANT USER NOTE: MAPS TO BE READ IN CONJUNCTION WITH THE BALLYHAILE FRS HYDRAULICS REPORT.

**LEGEND**

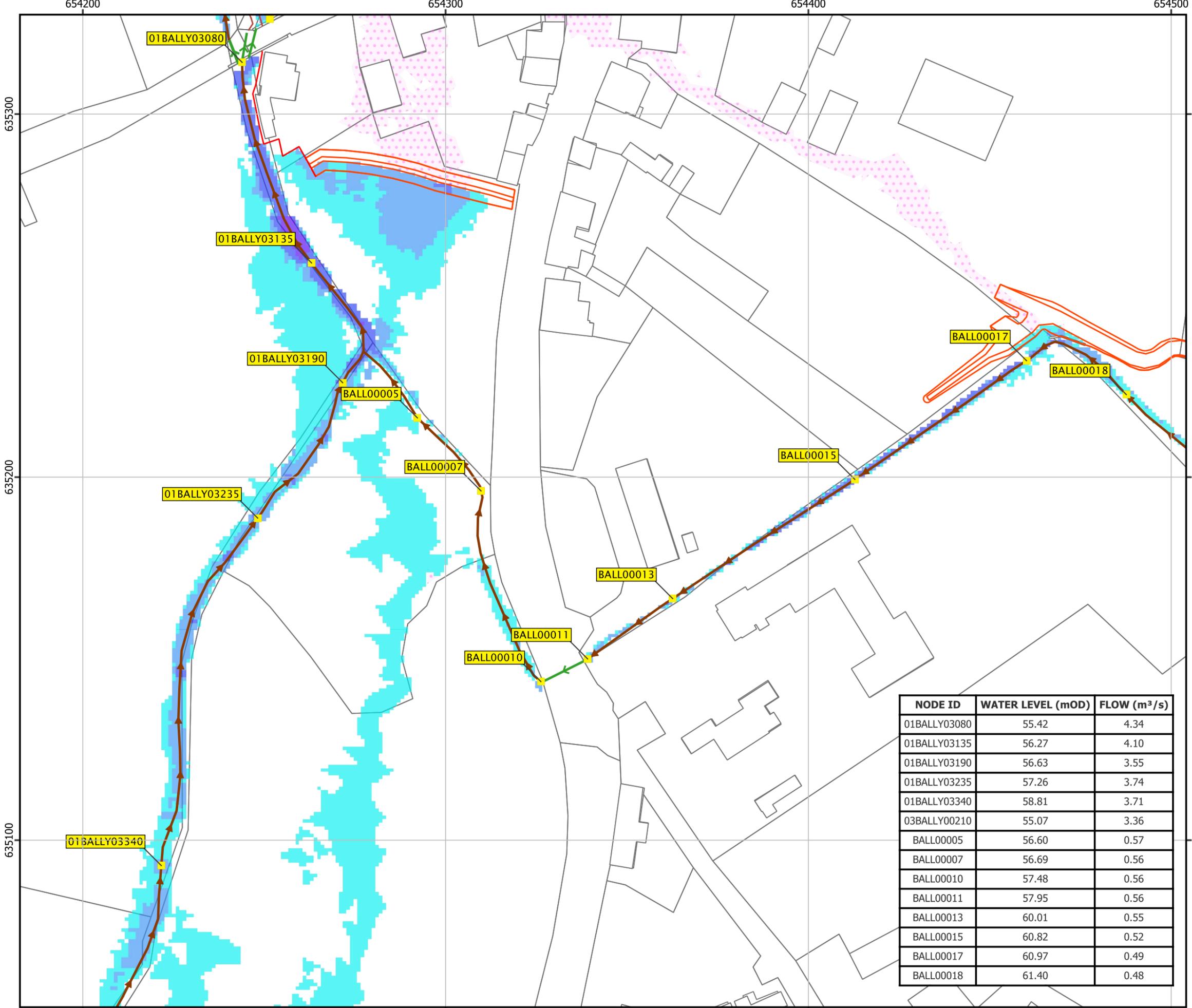
0 - 0.25m	NODE POINT
0.25 - 0.5 m	DEFENDED AREAS
0.50 - 1.0 m	DESIGN GEOMETRIES
1.0 - 1.5 m	CHANNEL REALIGNMENT
1.5 - 2.0 m	CULVERT UPGRADE
>2m	DIVERSION PIPE
MODELLED RIVER CENTRELINE	EMBANKMENT
CULVERTED WATERCOURSE	FLOOD WALL
	WEIR

REV: 02	NOTE: FOR INFORMATION	DATE: 21/12/2022
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MAP: BALLYHAILE, CO. KILKENNY	
FLOOD PROBABILITY:	0.1% AEP
MAP TYPE:	DEPTH
SOURCE:	FLUVIAL
HYDROLOGY SCENARIO:	MRFS
GEOMETRY SCENARIO:	DESIGN
DRAWN BY:	DL DATE: 21/12/2022
CHECKED BY:	MR DATE: 21/12/2022
APPROVED BY:	DKS DATE: 21/12/2022
DRAWING NUMBER: 514_DPFM_01_55	
MAP SERIES:	PAGE 5 OF 5
DRAWING SCALE:	1:1000 @ A3



IMPORTANT USER NOTE: MAPS TO BE READ IN CONJUNCTION WITH THE BALLYHALE FRS HYDRAULICS REPORT.

**LEGEND**

0 - 0.25m	NODE POINT
0.25 - 0.5 m	DEFENDED AREAS
0.50 - 1.0 m	DESIGN GEOMETRIES
1.0 - 1.5 m	CHANNEL REALIGNMENT
1.5 - 2.0 m	CULVERT UPGRADE
>2m	DIVERSION PIPE
MODELLED RIVER CENTRELINE	EMBANKMENT
CULVERTED WATERCOURSE	FLOOD WALL
	WEIR

REV: 02	NOTE: FOR INFORMATION	DATE: 21/12/2022
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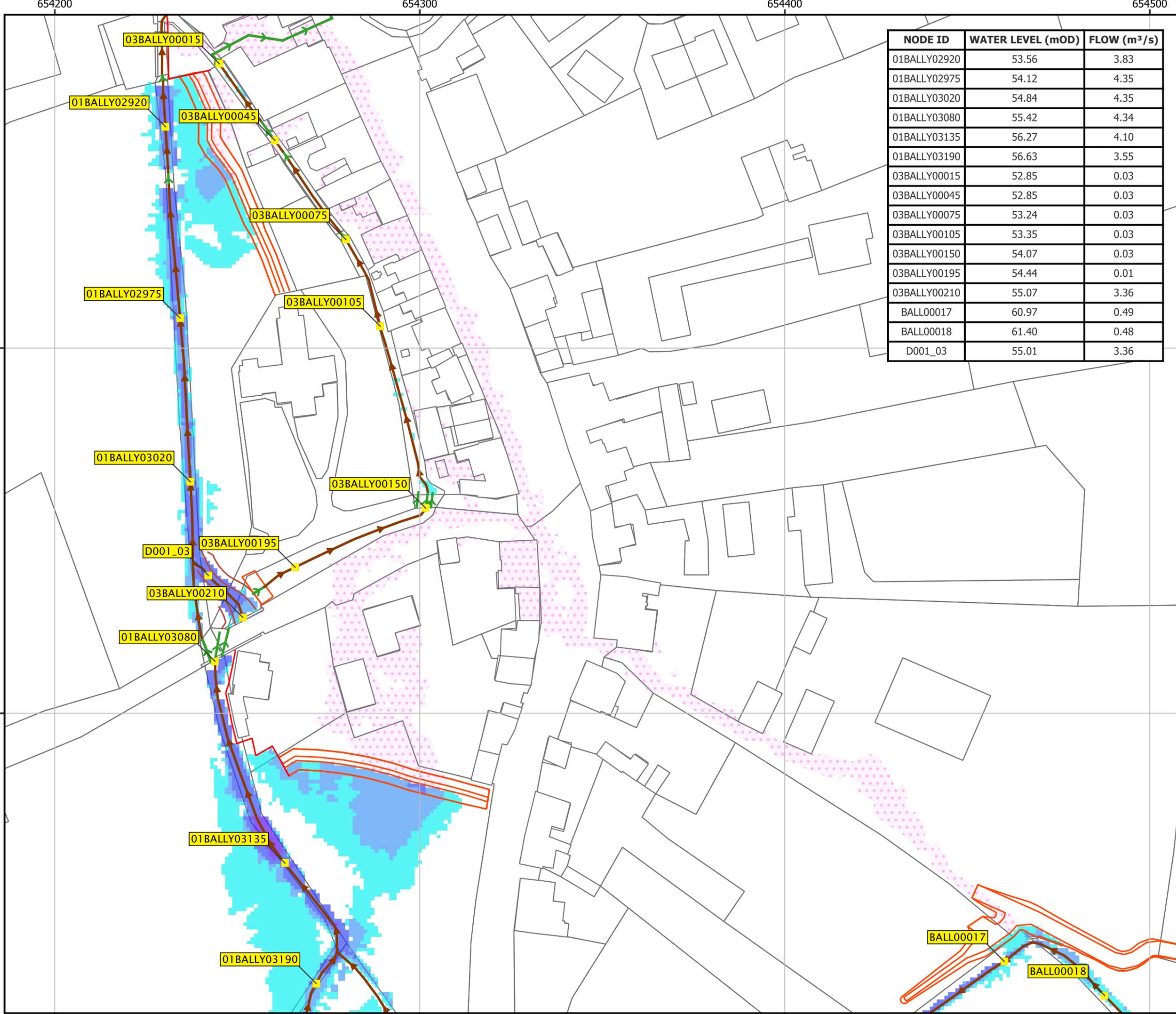
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 T: +353 (0)1 5138963  
 E: info@mcclloyconsulting.ie  
 W: www.mcclloyconsulting.ie

NODE ID	WATER LEVEL (mOD)	FLOW (m³/s)
01BALLY03080	55.42	4.34
01BALLY03135	56.27	4.10
01BALLY03190	56.63	3.55
01BALLY03235	57.26	3.74
01BALLY03340	58.81	3.71
03BALLY00210	55.07	3.36
BALL00005	56.60	0.57
BALL00007	56.69	0.56
BALL00010	57.48	0.56
BALL00011	57.95	0.56
BALL00013	60.01	0.55
BALL00015	60.82	0.52
BALL00017	60.97	0.49
BALL00018	61.40	0.48



DRAWING NUMBER: 514\_DPFH\_10\_51

MAP SERIES:	PAGE 1 OF 5
DRAWING SCALE:	1:1000 @ A3



NODE ID	WATER LEVEL (mOD)	FLOW (m³/s)
01BALLY02920	53.56	3.83
01BALLY02975	54.12	4.35
01BALLY03020	54.84	4.35
01BALLY03080	55.42	4.34
01BALLY03135	56.27	4.10
01BALLY03190	56.63	3.55
03BALLY00015	52.85	0.03
03BALLY00045	52.85	0.03
03BALLY00075	53.24	0.03
03BALLY00105	53.35	0.03
03BALLY00150	54.07	0.03
03BALLY00195	54.44	0.01
03BALLY00210	55.07	3.36
BALL00017	60.97	0.49
BALL00018	61.40	0.48
D001_03	55.01	3.36



IMPORTANT USER NOTE: MAPS TO BE READ IN CONJUNCTION WITH THE BALLYHAILE FRS HYDRAULICS REPORT.

**LEGEND**

0 - 0.25m	NODE POINT
0.25 - 0.5 m	DEFENDED AREAS
0.50 - 1.0 m	DESIGN GEOMETRIES
1.0 - 1.5 m	CHANNEL REALIGNMENT
1.5 - 2.0 m	CULVERT UPGRADE
>2m	DIVERSION PIPE
MODELLED RIVER CENTRELINE	EMBANKMENT
CULVERTED WATERCOURSE	FLOOD WALL
	WEIR

REV: 02	NOTE: FOR INFORMATION	DATE: 21/12/2022
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MAP: BALLYHAILE, CO. KILKENNY

FLOOD PROBABILITY:	10% AEP	
MAP TYPE:	DEPTH	
SOURCE:	FLUVIAL	
HYDROLOGY SCENARIO:	HEFS	
GEOMETRY SCENARIO:	DESIGN	
DRAWN BY:	DL	DATE: 21/12/2022
CHECKED BY:	MR	DATE: 21/12/2022
APPROVED BY:	DKS	DATE: 21/12/2022

DRAWING NUMBER: 514\_DPFH\_10\_52

MAP SERIES: PAGE 2 OF 5

DRAWING SCALE: 1:1000 @ A3



654100

654200

654300

635700

635700

635600

635600

635500

635500

654100  
50

654200

654300

0 100 METRES



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NODE ID	WATER LEVEL (mOD)	FLOW (m <sup>3</sup> /s)
01BALLY02670	50.98	4.42
01BALLY02730	51.44	4.41
01BALLY02775	51.81	4.41
01BALLY02805	52.09	4.36
01BALLY02870	53.17	4.35
03BALLY00015	52.85	0.03



IMPORTANT USER NOTE: MAPS TO BE READ IN CONJUNCTION WITH THE BALLYHAILE FRS HYDRAULICS REPORT.

**LEGEND**

0 - 0.25m	NODE POINT
0.25 - 0.5 m	DEFENDED AREAS
0.50 - 1.0 m	DESIGN GEOMETRIES
1.0 - 1.5 m	CHANNEL REALIGNMENT
1.5 - 2.0 m	CULVERT UPGRADE
>2m	DIVERSION PIPE
MODELLED RIVER CENTRELINE	EMBANKMENT
CULVERTED WATERCOURSE	FLOOD WALL
	WEIR

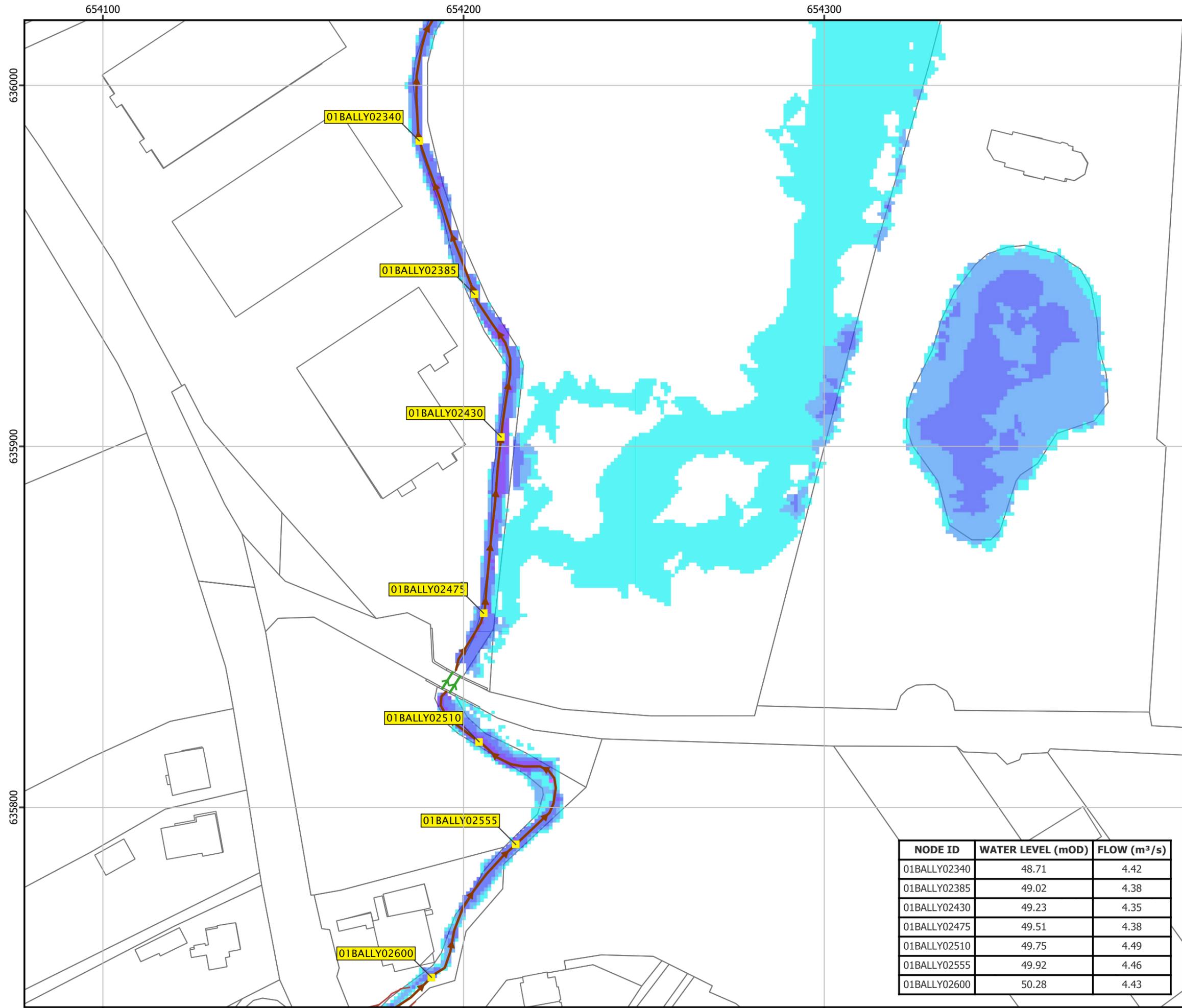
REV: 02	NOTE: FOR INFORMATION	DATE: 21/12/2022
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MAP: BALLYHAILE, CO. KILKENNY	
FLOOD PROBABILITY:	10% AEP
MAP TYPE:	DEPTH
SOURCE:	FLUVIAL
HYDROLOGY SCENARIO:	HEFS
GEOMETRY SCENARIO:	DESIGN
DRAWN BY:	DL DATE: 21/12/2022
CHECKED BY:	MR DATE: 21/12/2022
APPROVED BY:	DKS DATE: 21/12/2022
DRAWING NUMBER: 514_DPFH_10_53	
MAP SERIES:	PAGE 3 OF 5
DRAWING SCALE:	1:1000 @ A3



IMPORTANT USER NOTE: MAPS TO BE READ IN CONJUNCTION WITH THE BALLYHALE FRS HYDRAULICS REPORT.

**LEGEND**

0 - 0.25m	NODE POINT
0.25 - 0.5 m	DEFENDED AREAS
0.50 - 1.0 m	DESIGN GEOMETRIES
1.0 - 1.5 m	CHANNEL REALIGNMENT
1.5 - 2.0 m	CULVERT UPGRADE
>2m	DIVERSION PIPE
MODELLED RIVER CENTRELINE	EMBANKMENT
CULVERTED WATERCOURSE	FLOOD WALL
	WEIR

REV: 02	NOTE: FOR INFORMATION	DATE: 21/12/2022
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 W: www.mcclloyconsulting.ie

MAP: BALLYHALE, CO. KILKENNY

FLOOD PROBABILITY:	10% AEP	
MAP TYPE:	DEPTH	
SOURCE:	FLUVIAL	
HYDROLOGY SCENARIO:	HEFS	
GEOMETRY SCENARIO:	DESIGN	
DRAWN BY:	DL	DATE: 21/12/2022
CHECKED BY:	MR	DATE: 21/12/2022
APPROVED BY:	DKS	DATE: 21/12/2022

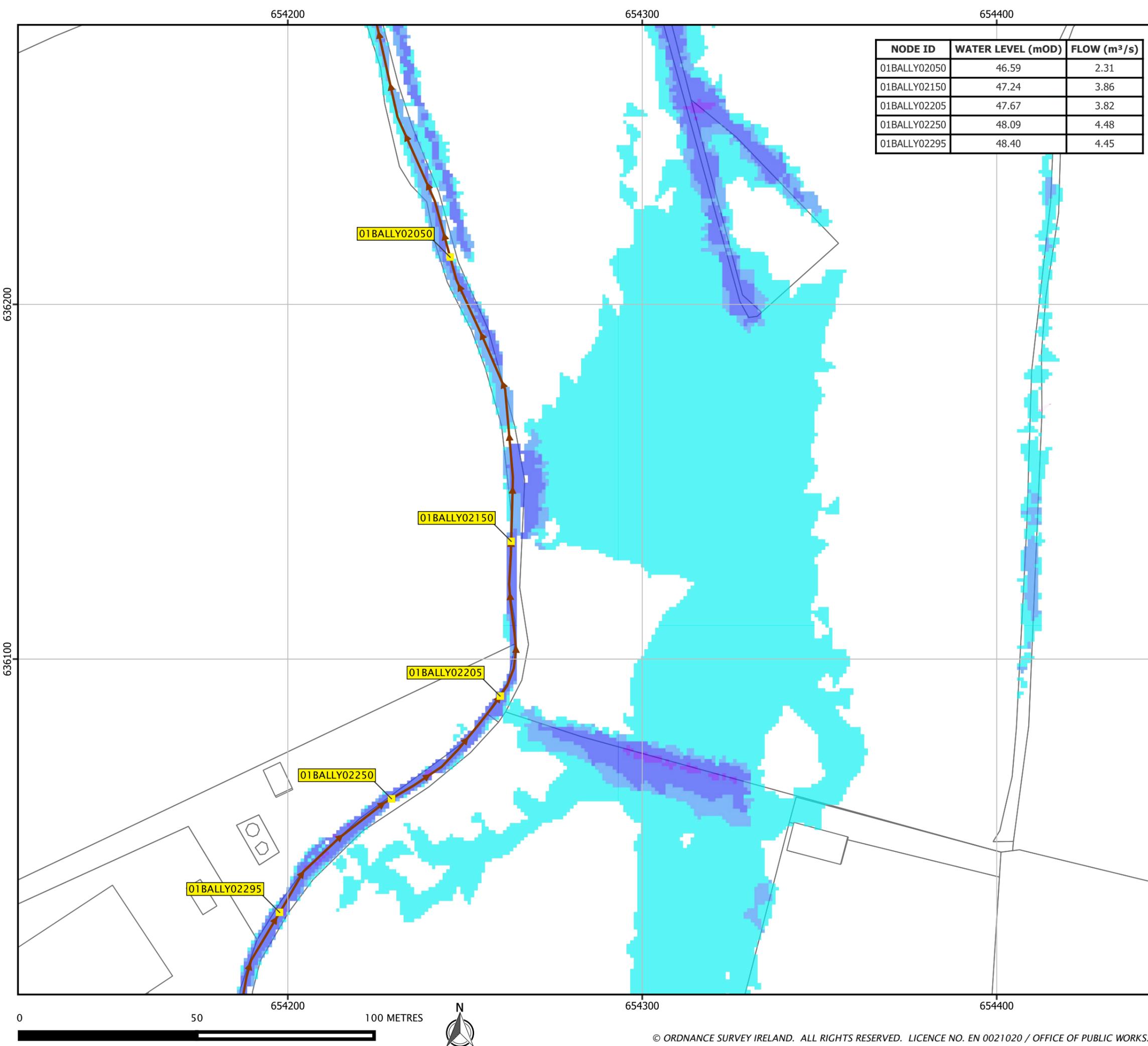
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MAP SERIES: PAGE 4 OF 5

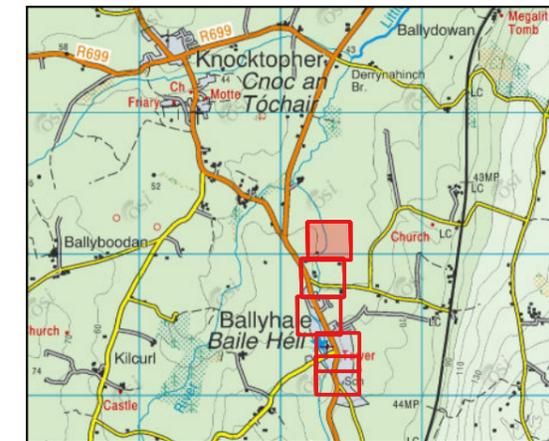
DRAWING SCALE: 1:1000 @ A3

NODE ID	WATER LEVEL (mOD)	FLOW (m <sup>3</sup> /s)
01BALLY02340	48.71	4.42
01BALLY02385	49.02	4.38
01BALLY02430	49.23	4.35
01BALLY02475	49.51	4.38
01BALLY02510	49.75	4.49
01BALLY02555	49.92	4.46
01BALLY02600	50.28	4.43





NODE ID	WATER LEVEL (mOD)	FLOW (m <sup>3</sup> /s)
01BALLY02050	46.59	2.31
01BALLY02150	47.24	3.86
01BALLY02205	47.67	3.82
01BALLY02250	48.09	4.48
01BALLY02295	48.40	4.45



IMPORTANT USER NOTE: MAPS TO BE READ IN CONJUNCTION WITH THE BALLYHALE FRS HYDRAULICS REPORT.

**LEGEND**

0 - 0.25m	NODE POINT
0.25 - 0.5 m	DEFENDED AREAS
0.50 - 1.0 m	DESIGN GEOMETRIES
1.0 - 1.5 m	CHANNEL REALIGNMENT
1.5 - 2.0 m	CULVERT UPGRADE
>2m	DIVERSION PIPE
MODELLED RIVER CENTRELINE	EMBANKMENT
CULVERTED WATERCOURSE	FLOOD WALL
	WEIR

REV: 02	NOTE: FOR INFORMATION	DATE: 21/12/2022
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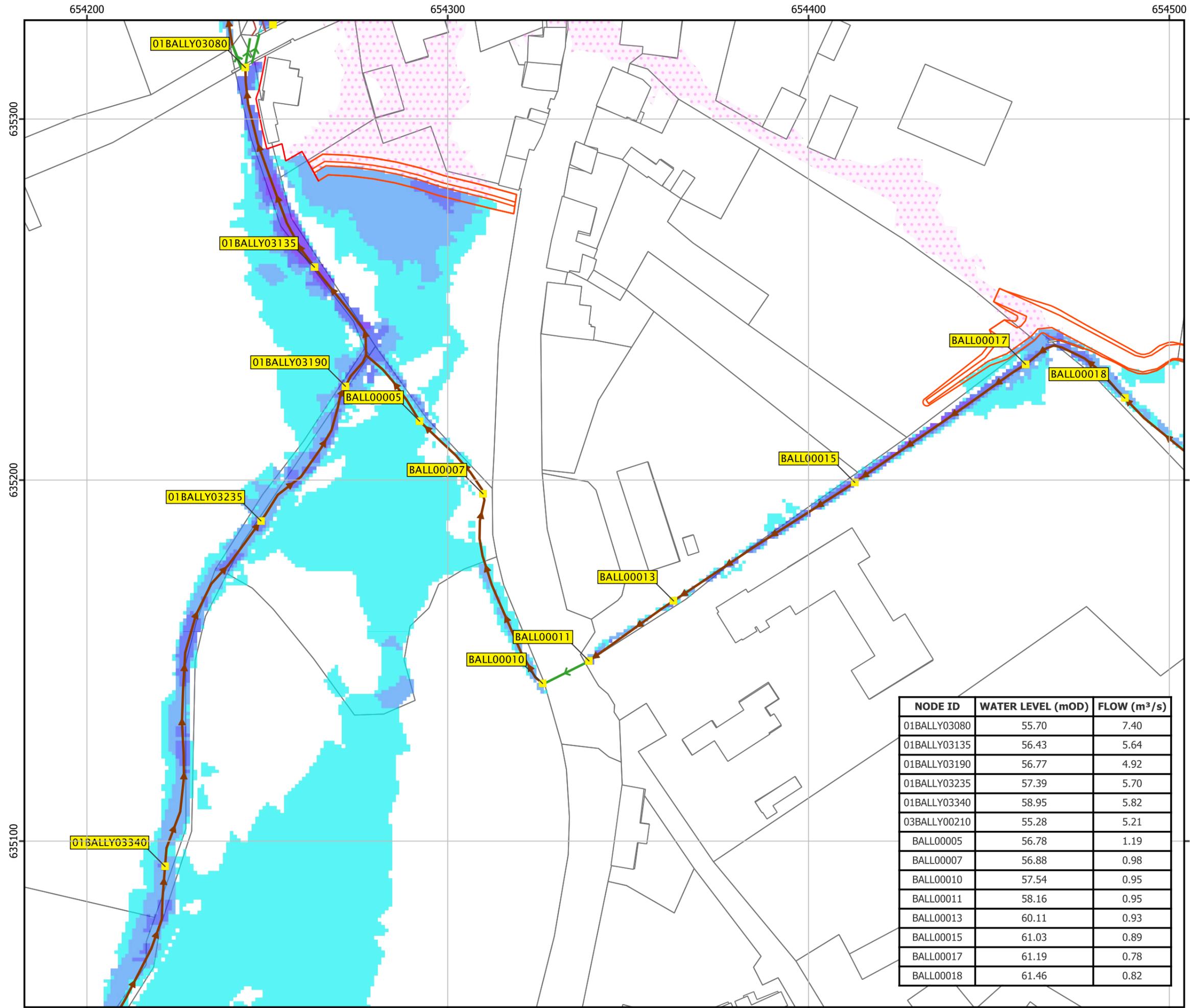


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W: www.mcclloyconsulting.ie

MAP: BALLYHALE, CO. KILKENNY	
FLOOD PROBABILITY:	10% AEP
MAP TYPE:	DEPTH
SOURCE:	FLUVIAL
HYDROLOGY SCENARIO:	HEFS
GEOMETRY SCENARIO:	DESIGN
DRAWN BY:	DL DATE: 21/12/2022
CHECKED BY:	MR DATE: 21/12/2022
APPROVED BY:	DKS DATE: 21/12/2022
DRAWING NUMBER: 514_DPFH_10_55	
MAP SERIES:	PAGE 5 OF 5
DRAWING SCALE:	1:1000 @ A3



IMPORTANT USER NOTE: MAPS TO BE READ IN CONJUNCTION WITH THE BALLYHAILE FRS HYDRAULICS REPORT.

**LEGEND**

0 - 0.25m	NODE POINT
0.25 - 0.5 m	DEFENDED AREAS
0.50 - 1.0 m	DESIGN GEOMETRIES
1.0 - 1.5 m	CHANNEL REALIGNMENT
1.5 - 2.0 m	CULVERT UPGRADE
>2m	DIVERSION PIPE
MODELLED RIVER CENTRELINE	EMBANKMENT
CULVERTED WATERCOURSE	FLOOD WALL
	WEIR

REV: 02	NOTE: FOR INFORMATION	DATE: 21/12/2022
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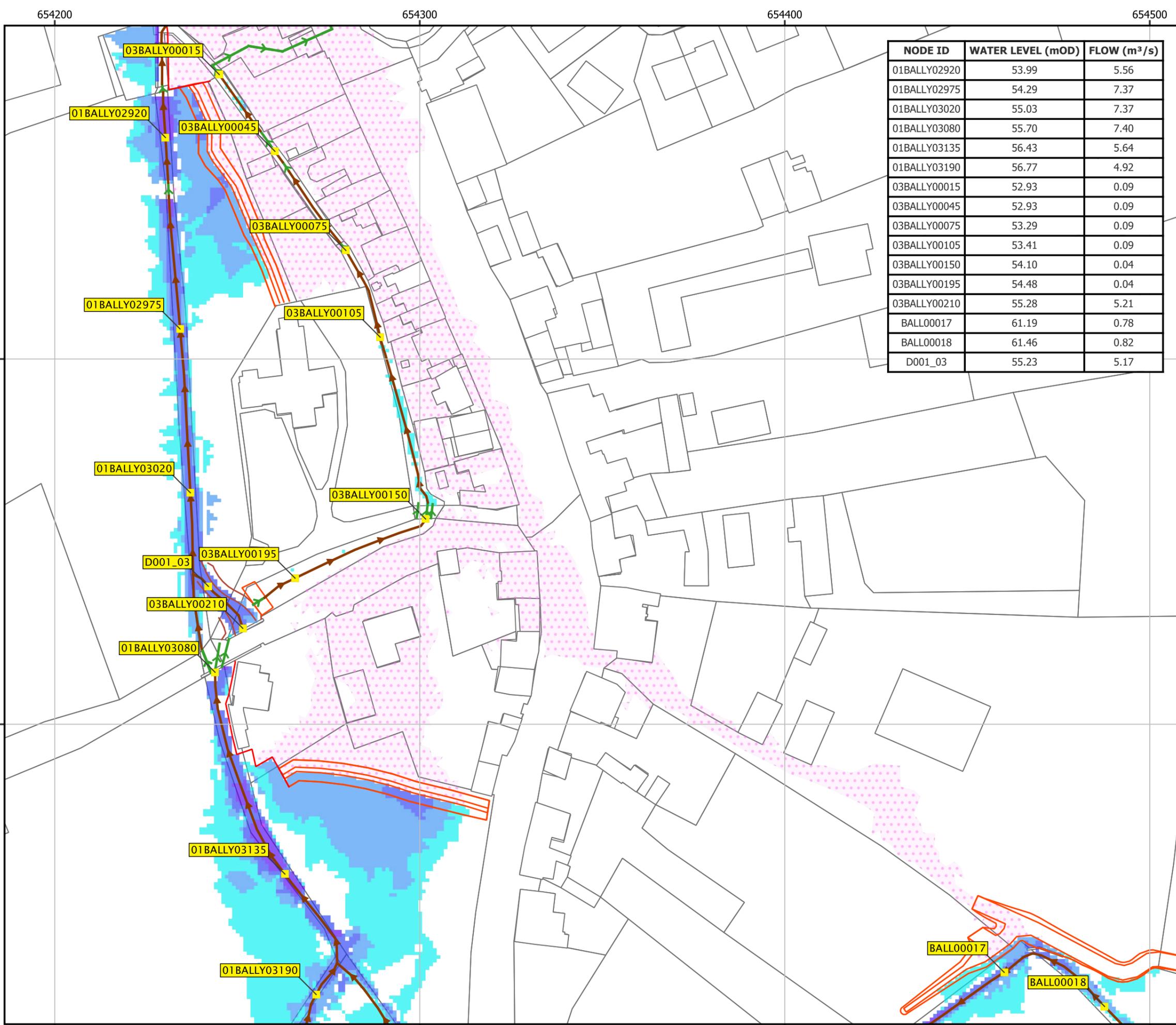
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NODE ID	WATER LEVEL (mOD)	FLOW (m³/s)
01BALLY03080	55.70	7.40
01BALLY03135	56.43	5.64
01BALLY03190	56.77	4.92
01BALLY03235	57.39	5.70
01BALLY03340	58.95	5.82
03BALLY00210	55.28	5.21
BALL00005	56.78	1.19
BALL00007	56.88	0.98
BALL00010	57.54	0.95
BALL00011	58.16	0.95
BALL00013	60.11	0.93
BALL00015	61.03	0.89
BALL00017	61.19	0.78
BALL00018	61.46	0.82



DRAWING NUMBER: 514\_DPFH\_1\_51

MAP SERIES:	PAGE 1 OF 5
DRAWING SCALE:	1:1000 @ A3



NODE ID	WATER LEVEL (mOD)	FLOW (m³/s)
01BALLY02920	53.99	5.56
01BALLY02975	54.29	7.37
01BALLY03020	55.03	7.37
01BALLY03080	55.70	7.40
01BALLY03135	56.43	5.64
01BALLY03190	56.77	4.92
03BALLY00015	52.93	0.09
03BALLY00045	52.93	0.09
03BALLY00075	53.29	0.09
03BALLY00105	53.41	0.09
03BALLY00150	54.10	0.04
03BALLY00195	54.48	0.04
03BALLY00210	55.28	5.21
BALL00017	61.19	0.78
BALL00018	61.46	0.82
D001_03	55.23	5.17



IMPORTANT USER NOTE: MAPS TO BE READ IN CONJUNCTION WITH THE BALLYHALE FRS HYDRAULICS REPORT.

**LEGEND**

	0 - 0.25m		NODE POINT
	0.25 - 0.5 m		DEFENDED AREAS
	0.50 - 1.0 m		DESIGN GEOMETRIES
	1.0 - 1.5 m		CHANNEL REALIGNMENT
	1.5 - 2.0 m		CULVERT UPGRADE
	>2m		DIVERSION PIPE
	MODELLED RIVER CENTRELINE		EMBANKMENT
	CULVERTED WATERCOURSE		FLOOD WALL
			WEIR

REV: 02	NOTE: FOR INFORMATION	DATE: 21/12/2022
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 W: www.mcclloyconsulting.ie

MAP: BALLYHALE, CO. KILKENNY

FLOOD PROBABILITY:	1% AEP	
MAP TYPE:	DEPTH	
SOURCE:	FLUVIAL	
HYDROLOGY SCENARIO:	HEFS	
GEOMETRY SCENARIO:	DESIGN	
DRAWN BY:	DL	DATE: 21/12/2022
CHECKED BY:	MR	DATE: 21/12/2022
APPROVED BY:	DKS	DATE: 21/12/2022

DRAWING NUMBER: 514\_DPFH\_1\_52

MAP SERIES: PAGE 2 OF 5

DRAWING SCALE: 1:1000 @ A3



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635700

635700

635600

635600

635500

635500

654100  
50

654200

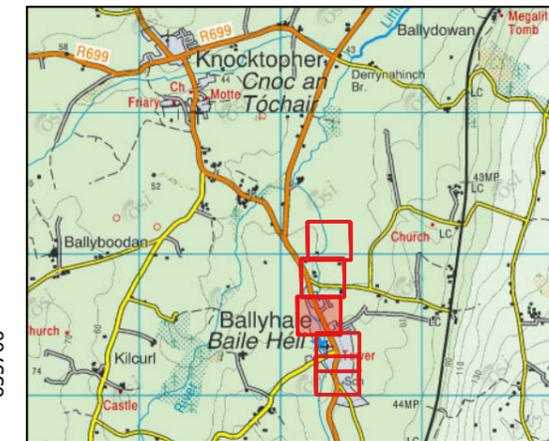
654300

0 100 METRES



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NODE ID	WATER LEVEL (mOD)	FLOW (m <sup>3</sup> /s)
01BALLY02670	51.38	7.52
01BALLY02730	51.80	7.51
01BALLY02775	52.18	7.51
01BALLY02805	52.43	7.38
01BALLY02870	53.58	7.38
03BALLY00015	52.93	0.09



IMPORTANT USER NOTE: MAPS TO BE READ IN CONJUNCTION WITH THE BALLYHALE FRS HYDRAULICS REPORT.

**LEGEND**

0 - 0.25m	NODE POINT
0.25 - 0.5 m	DEFENDED AREAS
0.50 - 1.0 m	DESIGN GEOMETRIES
1.0 - 1.5 m	CHANNEL REALIGNMENT
1.5 - 2.0 m	CULVERT UPGRADE
>2m	DIVERSION PIPE
MODELLED RIVER CENTRELINE	EMBANKMENT
CULVERTED WATERCOURSE	FLOOD WALL
	WEIR

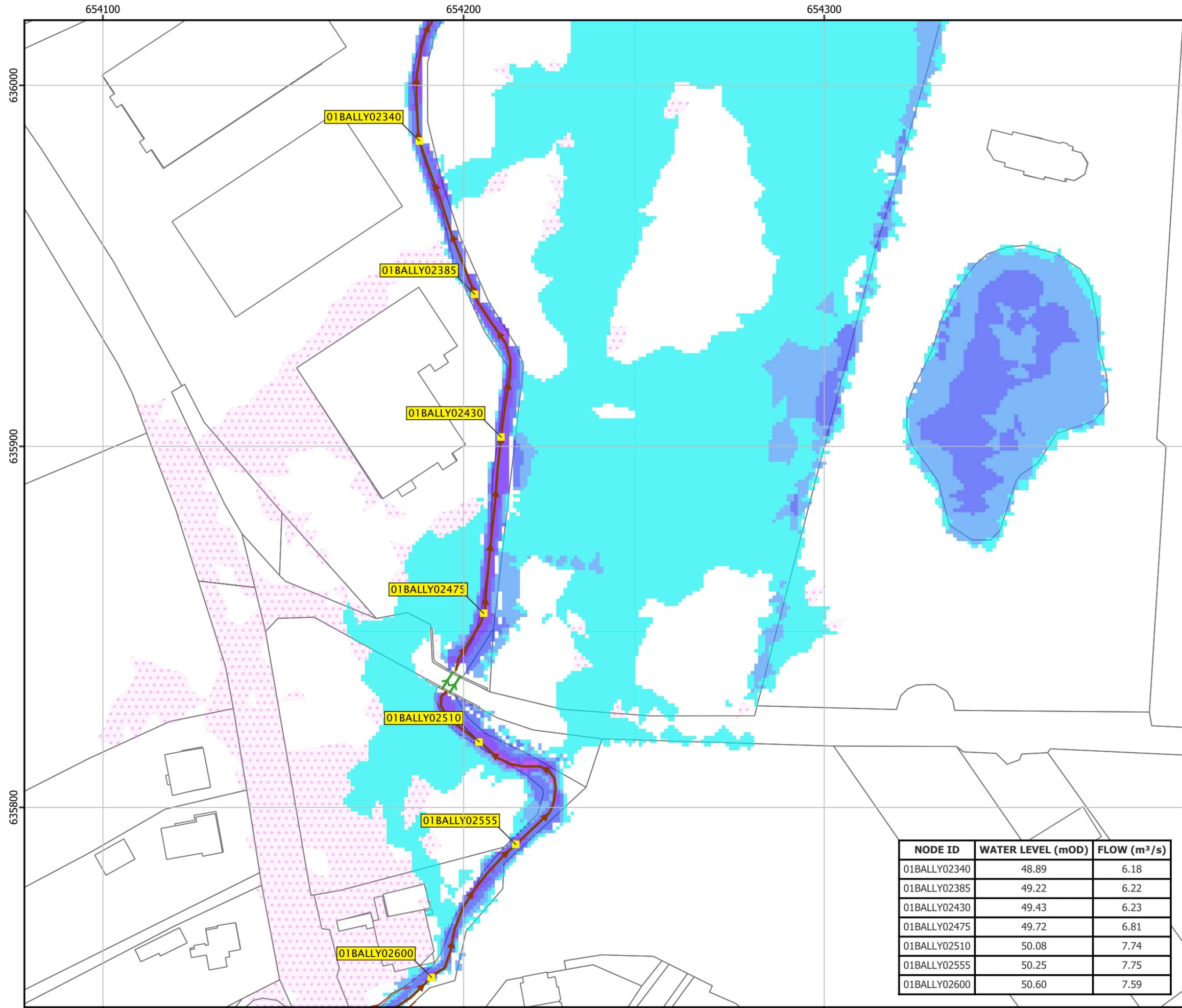
REV: 02	NOTE: FOR INFORMATION	DATE: 21/12/2022
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MAP: BALLYHALE, CO. KILKENNY		
FLOOD PROBABILITY:	1% AEP	
MAP TYPE:	DEPTH	
SOURCE:	FLUVIAL	
HYDROLOGY SCENARIO:	HEFS	
GEOMETRY SCENARIO:	DESIGN	
DRAWN BY:	DL	DATE: 21/12/2022
CHECKED BY:	MR	DATE: 21/12/2022
APPROVED BY:	DKS	DATE: 21/12/2022
DRAWING NUMBER: 514_DPFH_1_53		
MAP SERIES:	PAGE 3 OF 5	
DRAWING SCALE:	1:1000 @ A3	



IMPORTANT USER NOTE: MAPS TO BE READ IN CONJUNCTION WITH THE BALLYHAILE FRS HYDRAULICS REPORT.

**LEGEND**

0 - 0.25m	NODE POINT
0.25 - 0.5 m	DEFENDED AREAS
0.50 - 1.0 m	DESIGN GEOMETRIES
1.0 - 1.5 m	CHANNEL REALIGNMENT
1.5 - 2.0 m	CULVERT UPGRADE
>2m	DIVERSION PIPE
MODELLED RIVER CENTRELINE	EMBANKMENT
CULVERTED WATERCOURSE	FLOOD WALL
	WEIR

REV: 02	NOTE: FOR INFORMATION	DATE: 21/12/2022
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MAP: BALLYHAILE, CO. KILKENNY

FLOOD PROBABILITY:	1% AEP
MAP TYPE:	DEPTH
SOURCE:	FLUVIAL
HYDROLOGY SCENARIO:	HEFS
GEOMETRY SCENARIO:	DESIGN
DRAWN BY:	DL DATE: 21/12/2022
CHECKED BY:	MR DATE: 21/12/2022
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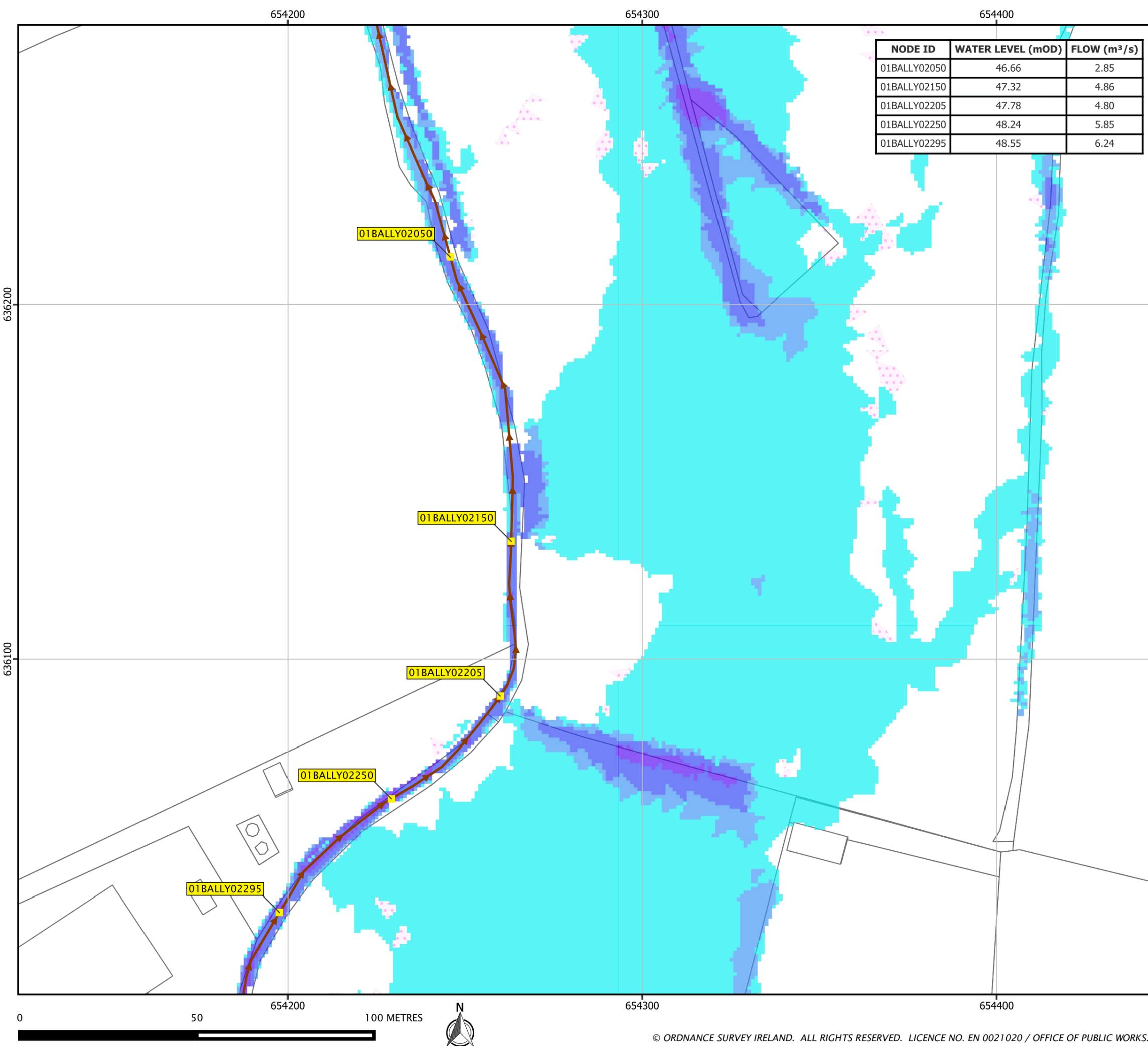
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MAP SERIES: PAGE 4 OF 5

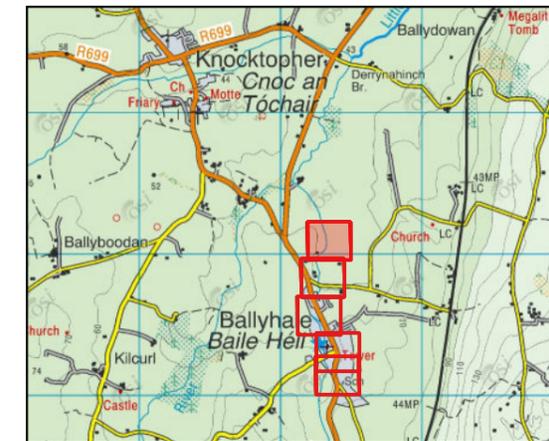
DRAWING SCALE: 1:1000 @ A3

NODE ID	WATER LEVEL (mOD)	FLOW (m³/s)
01BALLY02340	48.89	6.18
01BALLY02385	49.22	6.22
01BALLY02430	49.43	6.23
01BALLY02475	49.72	6.81
01BALLY02510	50.08	7.74
01BALLY02555	50.25	7.75
01BALLY02600	50.60	7.59





NODE ID	WATER LEVEL (mOD)	FLOW (m <sup>3</sup> /s)
01BALLY02050	46.66	2.85
01BALLY02150	47.32	4.86
01BALLY02205	47.78	4.80
01BALLY02250	48.24	5.85
01BALLY02295	48.55	6.24



IMPORTANT USER NOTE: MAPS TO BE READ IN CONJUNCTION WITH THE BALLYHALE FRS HYDRAULICS REPORT.

**LEGEND**

0 - 0.25m	NODE POINT
0.25 - 0.5 m	DEFENDED AREAS
0.50 - 1.0 m	DESIGN GEOMETRIES
1.0 - 1.5 m	CHANNEL REALIGNMENT
1.5 - 2.0 m	CULVERT UPGRADE
>2m	DIVERSION PIPE
MODELLED RIVER CENTRELINE	EMBANKMENT
CULVERTED WATERCOURSE	FLOOD WALL
	WEIR

REV: 02	NOTE: FOR INFORMATION	DATE: 21/12/2022
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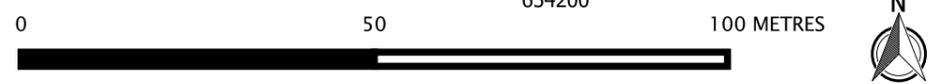
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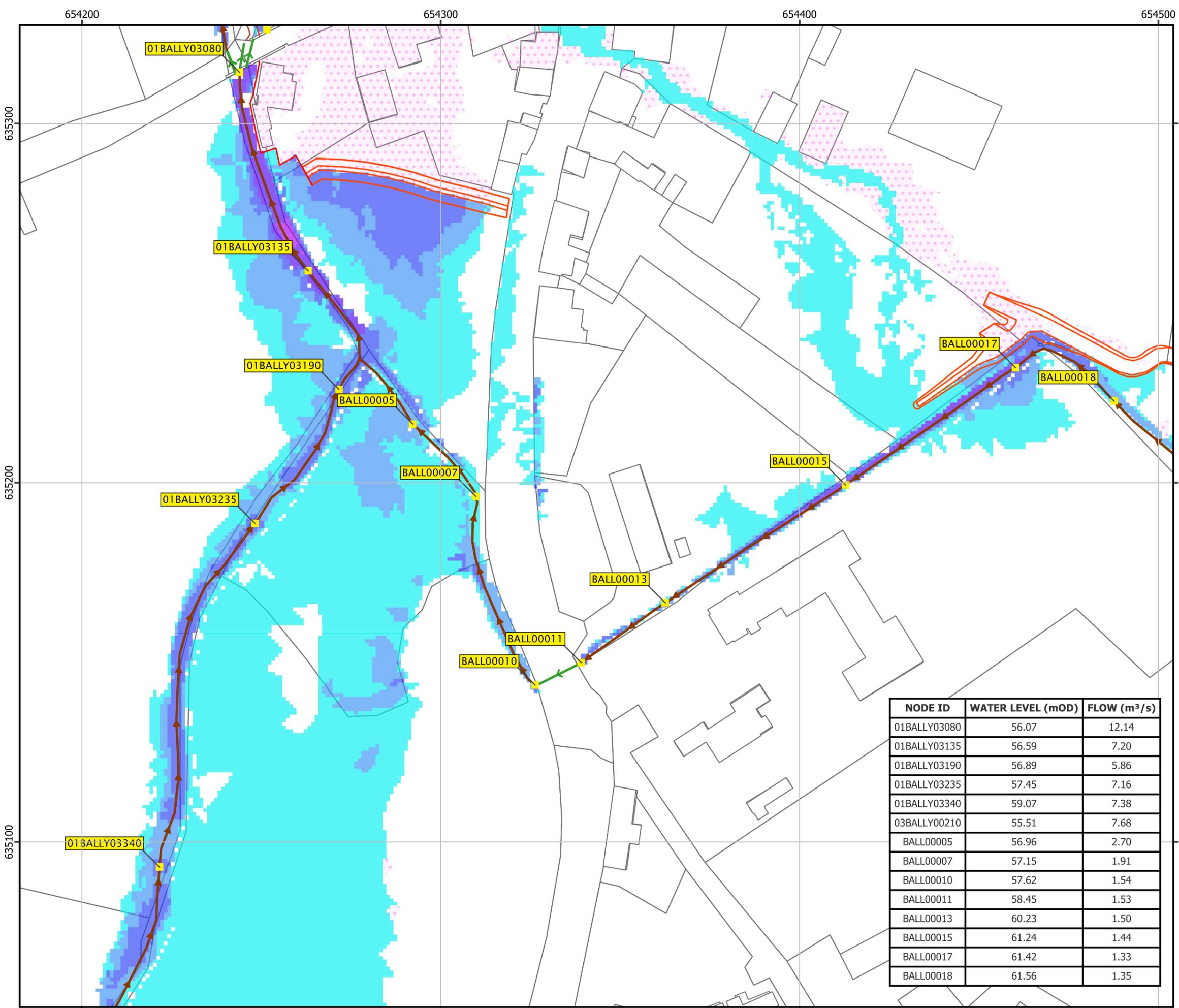
MAP: BALLYHALE, CO. KILKENNY

FLOOD PROBABILITY:	1% AEP	
MAP TYPE:	DEPTH	
SOURCE:	FLUVIAL	
HYDROLOGY SCENARIO:	HEFS	
GEOMETRY SCENARIO:	DESIGN	
DRAWN BY:	DL	DATE: 21/12/2022
CHECKED BY:	MR	DATE: 21/12/2022
APPROVED BY:	DKS	DATE: 21/12/2022

DRAWING NUMBER: 514\_DPFH\_1\_55

MAP SERIES:	PAGE 5 OF 5
DRAWING SCALE:	1:1000 @ A3





IMPORTANT USER NOTE: MAPS TO BE READ IN CONJUNCTION WITH THE BALLYHAILE FRS HYDRAULICS REPORT.

**LEGEND**

0 - 0.25m	NODE POINT
0.25 - 0.5 m	DEFENDED AREAS
0.50 - 1.0 m	DESIGN GEOMETRIES
1.0 - 1.5 m	CHANNEL REALIGNMENT
1.5 - 2.0 m	CULVERT UPGRADE
>2m	DIVERSION PIPE
MODELLED RIVER CENTRELINE	EMBANKMENT
CULVERTED WATERCOURSE	FLOOD WALL
	WEIR

REV: 02	NOTE: FOR INFORMATION	DATE: 21/12/2022
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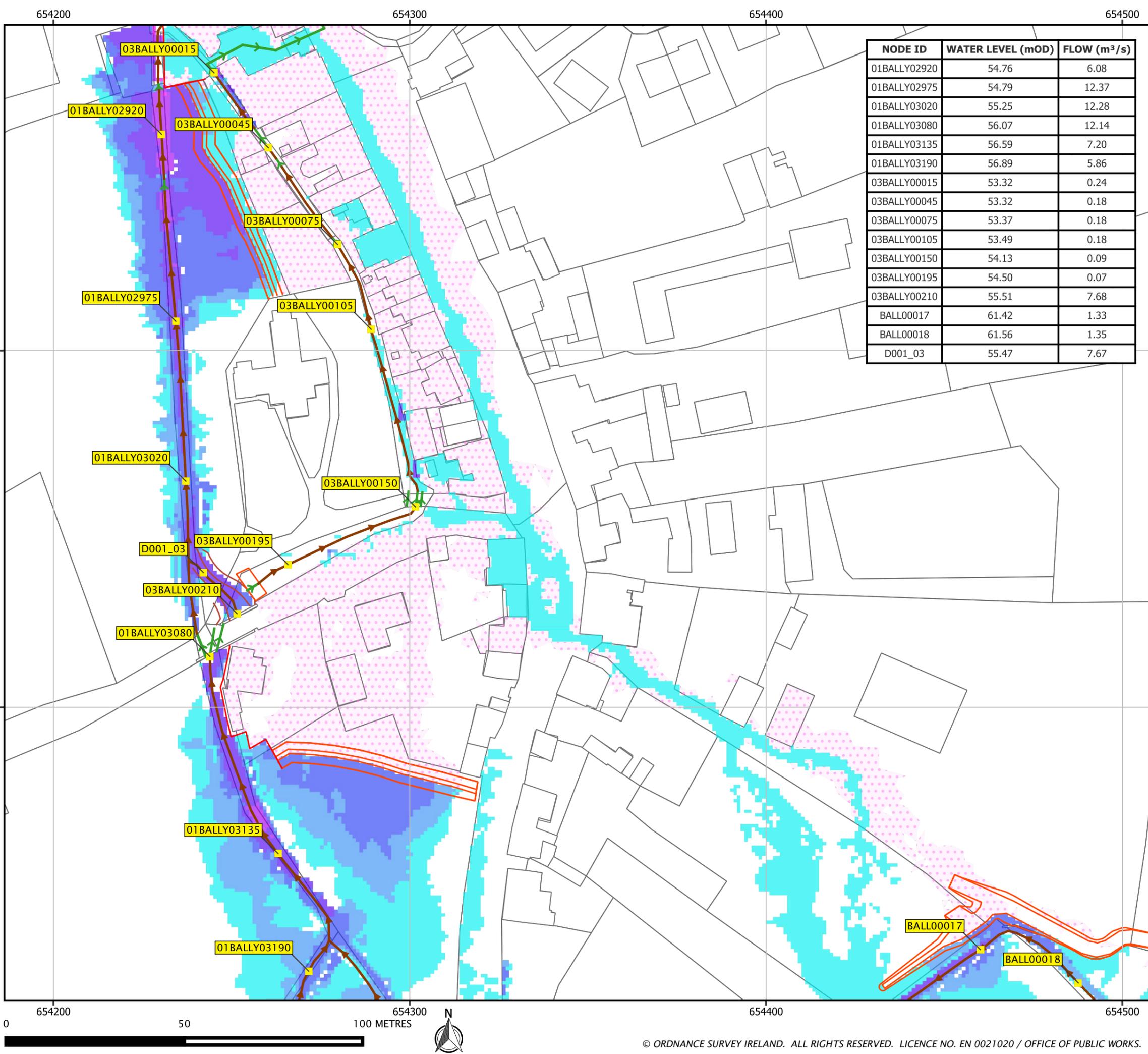
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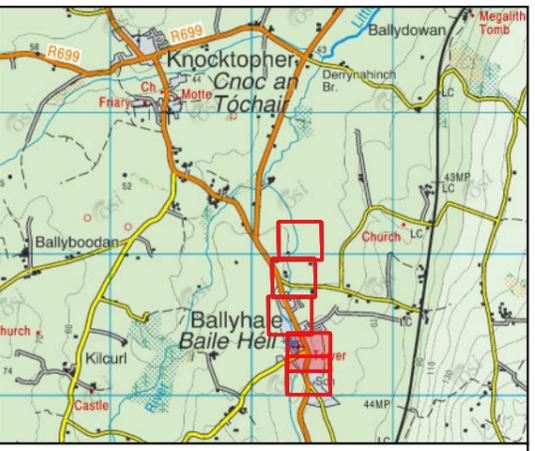
NODE ID	WATER LEVEL (mOD)	FLOW (m <sup>3</sup> /s)
01BALLY03080	56.07	12.14
01BALLY03135	56.59	7.20
01BALLY03190	56.89	5.86
01BALLY03235	57.45	7.16
01BALLY03340	59.07	7.38
03BALLY00210	55.51	7.68
BALL00005	56.96	2.70
BALL00007	57.15	1.91
BALL00010	57.62	1.54
BALL00011	58.45	1.53
BALL00013	60.23	1.50
BALL00015	61.24	1.44
BALL00017	61.42	1.33
BALL00018	61.56	1.35

MAP: BALLYHAILE, CO. KILKENNY

FLOOD PROBABILITY:	0.1% AEP	
MAP TYPE:	DEPTH	
SOURCE:	FLUVIAL	
HYDROLOGY SCENARIO:	HEFS	
GEOMETRY SCENARIO:	DESIGN	
DRAWN BY:	DL	DATE: 21/12/2022
CHECKED BY:	MR	DATE: 21/12/2022
APPROVED BY:	DKS	DATE: 21/12/2022
DRAWING NUMBER: 514_DPFH_01_51		
MAP SERIES:	PAGE 1 OF 5	
DRAWING SCALE:	1:1000 @ A3	



NODE ID	WATER LEVEL (mOD)	FLOW (m <sup>3</sup> /s)
01BALLY02920	54.76	6.08
01BALLY02975	54.79	12.37
01BALLY03020	55.25	12.28
01BALLY03080	56.07	12.14
01BALLY03135	56.59	7.20
01BALLY03190	56.89	5.86
03BALLY00015	53.32	0.24
03BALLY00045	53.32	0.18
03BALLY00075	53.37	0.18
03BALLY00105	53.49	0.18
03BALLY00150	54.13	0.09
03BALLY00195	54.50	0.07
03BALLY00210	55.51	7.68
BALL00017	61.42	1.33
BALL00018	61.56	1.35
D001_03	55.47	7.67



IMPORTANT USER NOTE: MAPS TO BE READ IN CONJUNCTION WITH THE BALLYHAILE FRS HYDRAULICS REPORT.

**LEGEND**

0 - 0.25m	NODE POINT
0.25 - 0.5 m	DEFENDED AREAS
0.50 - 1.0 m	DESIGN GEOMETRIES
1.0 - 1.5 m	CHANNEL REALIGNMENT
1.5 - 2.0 m	CULVERT UPGRADE
>2m	DIVERSION PIPE
MODELLED RIVER CENTRELINE	EMBANKMENT
CULVERTED WATERCOURSE	FLOOD WALL
	WEIR

REV: 02	NOTE: FOR INFORMATION	DATE: 21/12/2022
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MAP: BALLYHAILE, CO. KILKENNY	
FLOOD PROBABILITY:	0.1% AEP
MAP TYPE:	DEPTH
SOURCE:	FLUVIAL
HYDROLOGY SCENARIO:	HEFS
GEOMETRY SCENARIO:	DESIGN
DRAWN BY:	DL DATE: 21/12/2022
CHECKED BY:	MR DATE: 21/12/2022
APPROVED BY:	DKS DATE: 21/12/2022
DRAWING NUMBER: 514_DPFH_01_52	
MAP SERIES:	PAGE 2 OF 5
DRAWING SCALE:	1:1000 @ A3



654100

654200

654300

635700

635700

635600

635600

635500

635500

654100

654200

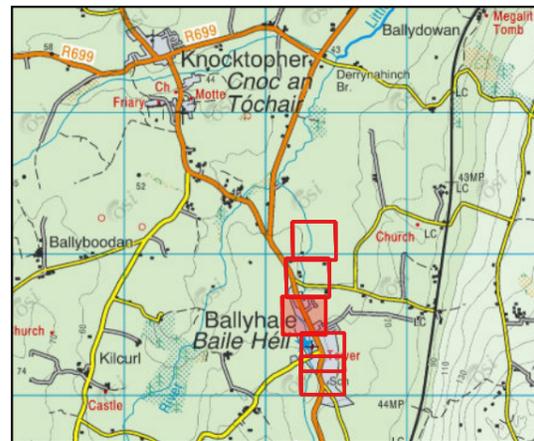
654300

0 50 100 METRES



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NODE ID	WATER LEVEL (mOD)	FLOW (m <sup>3</sup> /s)
01BALLY02670	51.78	10.30
01BALLY02730	52.26	11.21
01BALLY02775	52.76	11.47
01BALLY02805	52.97	11.40
01BALLY02870	54.42	12.08
03BALLY00015	53.32	0.24



IMPORTANT USER NOTE: MAPS TO BE READ IN CONJUNCTION WITH THE BALLYHALE FRS HYDRAULICS REPORT.

**LEGEND**

	0 - 0.25m		NODE POINT
	0.25 - 0.5 m		DEFENDED AREAS
	0.50 - 1.0 m		DESIGN GEOMETRIES
	1.0 - 1.5 m		CHANNEL REALIGNMENT
	1.5 - 2.0 m		CULVERT UPGRADE
	>2m		DIVERSION PIPE
	MODELLED RIVER CENTRELINE		EMBANKMENT
	CULVERTED WATERCOURSE		FLOOD WALL
			WEIR

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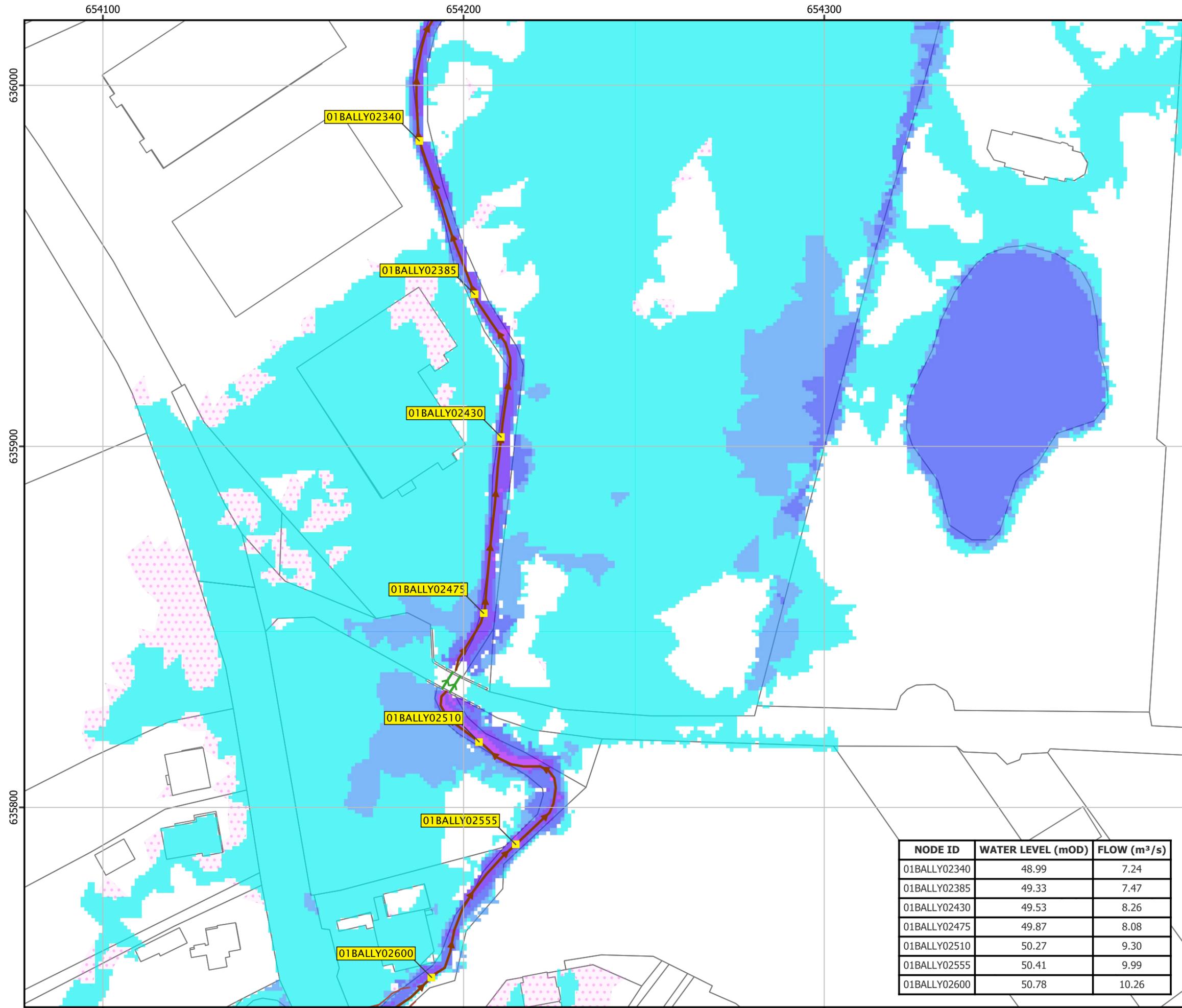
MAP: BALLYHALE, CO. KILKENNY

FLOOD PROBABILITY:	0.1% AEP
MAP TYPE:	DEPTH
SOURCE:	FLUVIAL
HYDROLOGY SCENARIO:	HEFS
GEOMETRY SCENARIO:	DESIGN
DRAWN BY:	DL DATE: 21/12/2022
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DRAWING NUMBER: 514\_DPFH\_01\_53

MAP SERIES: PAGE 3 OF 5

DRAWING SCALE: 1:1000 @ A3



IMPORTANT USER NOTE: MAPS TO BE READ IN CONJUNCTION WITH THE BALLYHAILE FRS HYDRAULICS REPORT.

**LEGEND**

0 - 0.25m	NODE POINT
0.25 - 0.5 m	DEFENDED AREAS
0.50 - 1.0 m	DESIGN GEOMETRIES
1.0 - 1.5 m	CHANNEL REALIGNMENT
1.5 - 2.0 m	CULVERT UPGRADE
>2m	DIVERSION PIPE
MODELLED RIVER CENTRELINE	EMBANKMENT
CULVERTED WATERCOURSE	FLOOD WALL
	WEIR

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MAP: BALLYHAILE, CO. KILKENNY

FLOOD PROBABILITY:	0.1% AEP
MAP TYPE:	DEPTH
SOURCE:	FLUVIAL
HYDROLOGY SCENARIO:	HEFS
GEOMETRY SCENARIO:	DESIGN
DRAWN BY:	DL DATE: 21/12/2022
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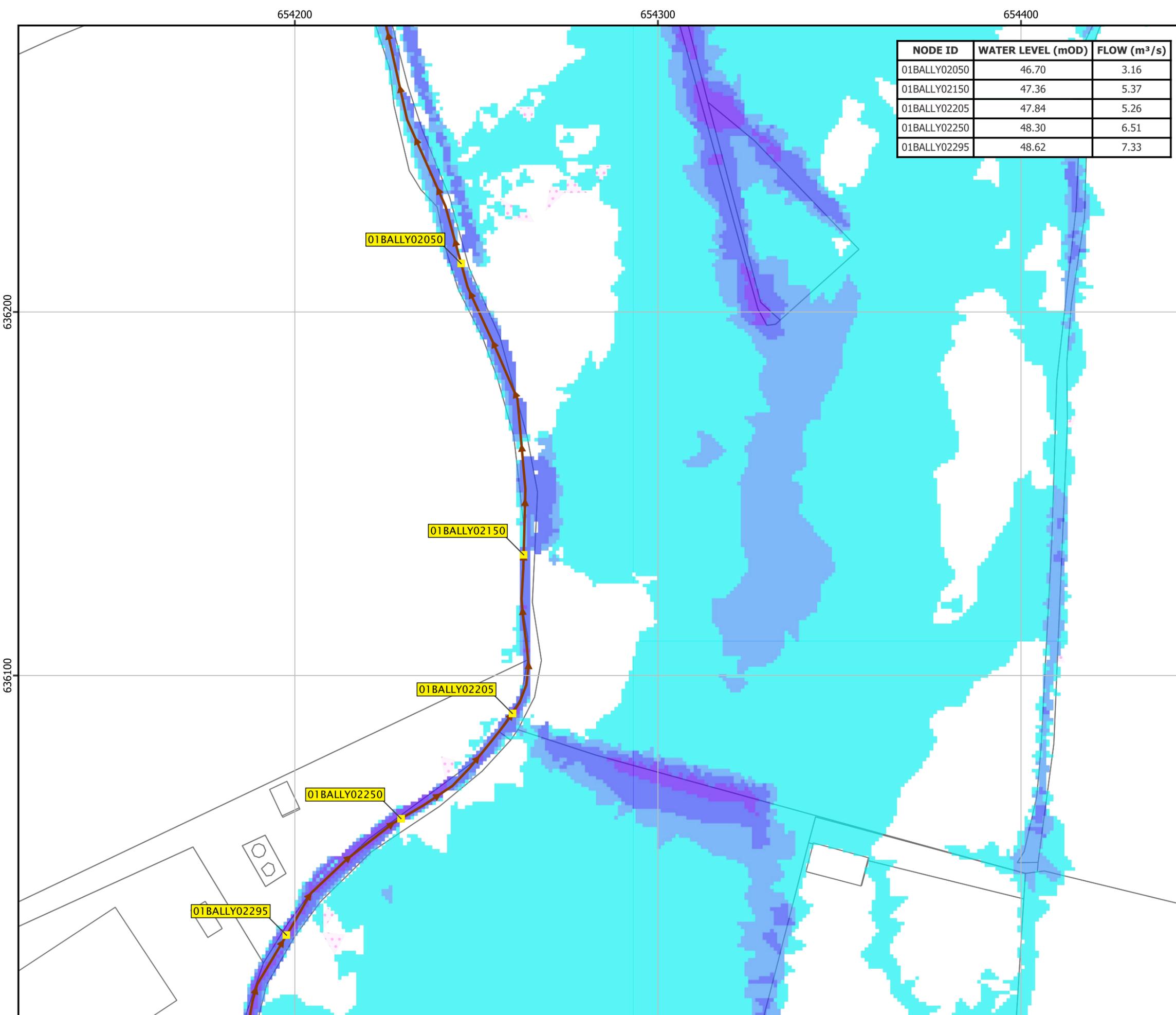
DRAWING NUMBER: 514\_DPFH\_01\_54

MAP SERIES: PAGE 4 OF 5

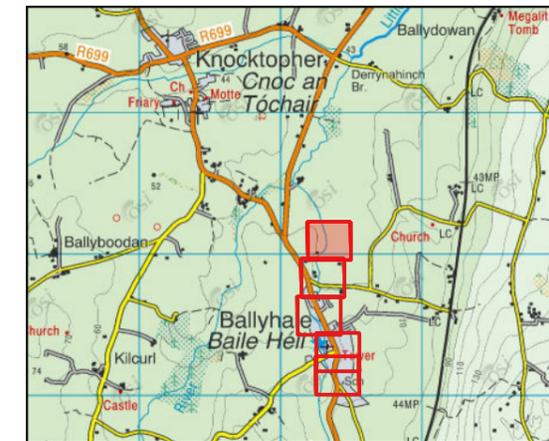
DRAWING SCALE: 1:1000 @ A3

NODE ID	WATER LEVEL (mOD)	FLOW (m <sup>3</sup> /s)
01BALLY02340	48.99	7.24
01BALLY02385	49.33	7.47
01BALLY02430	49.53	8.26
01BALLY02475	49.87	8.08
01BALLY02510	50.27	9.30
01BALLY02555	50.41	9.99
01BALLY02600	50.78	10.26





NODE ID	WATER LEVEL (mOD)	FLOW (m <sup>3</sup> /s)
01BALLY02050	46.70	3.16
01BALLY02150	47.36	5.37
01BALLY02205	47.84	5.26
01BALLY02250	48.30	6.51
01BALLY02295	48.62	7.33



IMPORTANT USER NOTE: MAPS TO BE READ IN CONJUNCTION WITH THE BALLYHAILE FRS HYDRAULICS REPORT.

**LEGEND**

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0.25 - 0.5 m	DEFENDED AREAS
0.50 - 1.0 m	DESIGN GEOMETRIES
1.0 - 1.5 m	CHANNEL REALIGNMENT
1.5 - 2.0 m	CULVERT UPGRADE
>2m	DIVERSION PIPE
MODELLED RIVER CENTRELINE	EMBANKMENT
CULVERTED WATERCOURSE	FLOOD WALL
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MAP SERIES: PAGE 5 OF 5

DRAWING SCALE: 1:1000 @ A3

0 50 100 METRES

