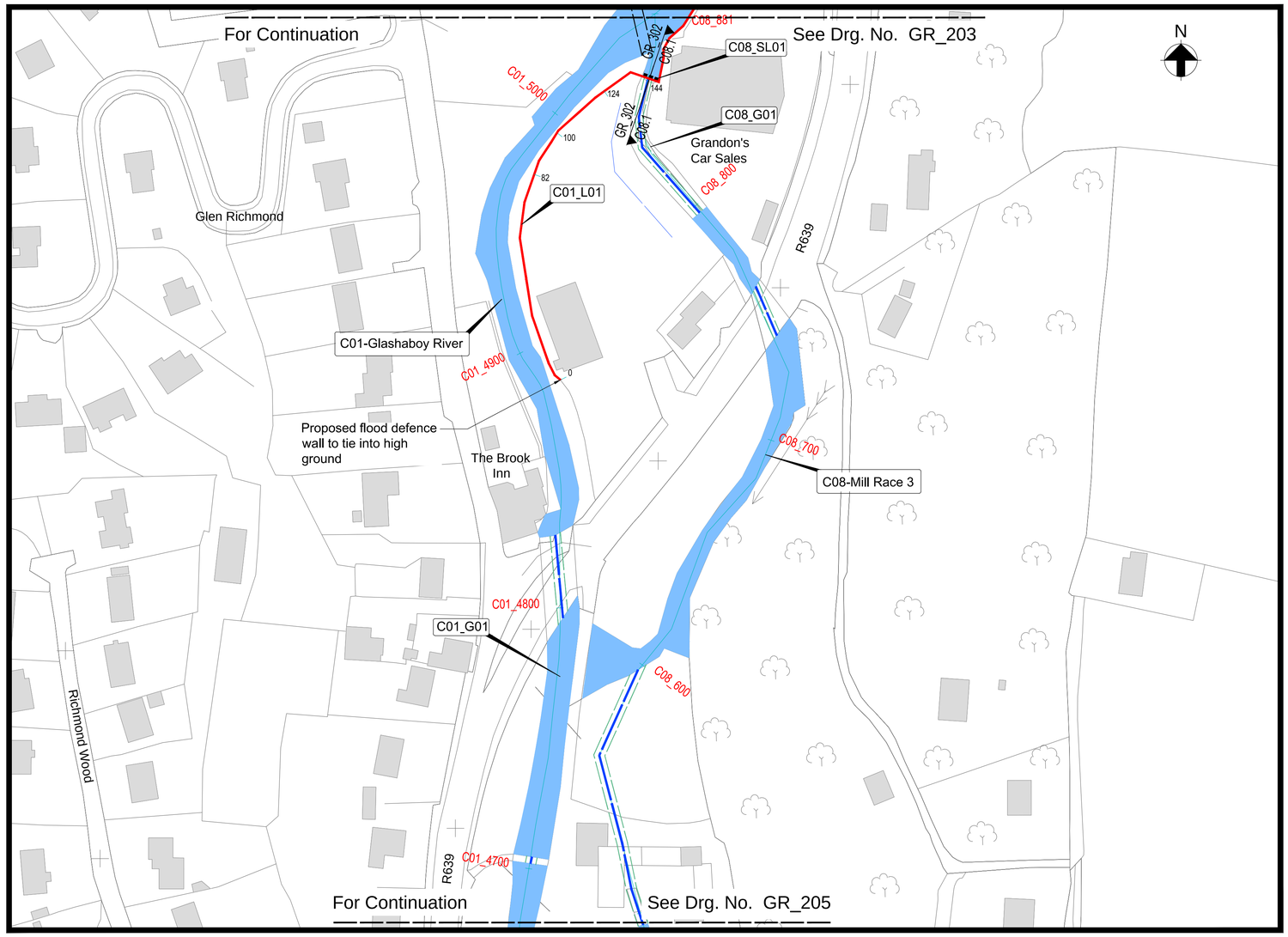
Glashaboy River (Glanmire/Sallybrook) Drainage Scheme

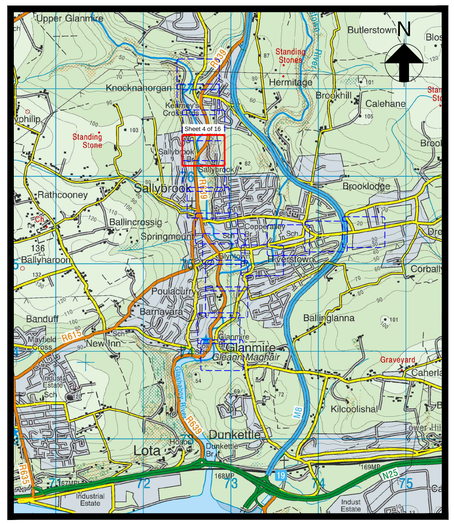
Issued for Exhibition November 2016



Interference Reference	Channel Chainage	Proposed Works Chainage (m)	General Description of Proposed Works
C01_L01	5017 to 5132	124 to 253	Proposed reinforced concrete flood defence wall to be constructed to a flood defence level of 18.6mOD (typically 0.8m above existing ground levels). All drainage outfalls to be fitted with non-return valves. Flood defence wall to have a concrete fair faced finish on both sides.
C01_L01	4972 to 5017	82 to 124	Proposed reinforced concrete flood defence wall to be constructed to a flood defence level of 18.2mOD (typically 1.4m above existing ground levels). All drainage outfalls to be fitted with non-return valves. Flood defence wall to have a concrete fair faced finish on both sides.
C01_L01	4881 to 4972	0 to 82	Proposed reinforced concrete flood defence wall to be constructed to a flood defence level of 17.9mOD (typically 0.9m above existing ground levels). All drainage outfalls to be fitted with non-return valves. Flood defence wall to have a concrete fair faced finish on both sides.
C08_SL01	857	-	Proposed flow control structure to restrict peak flows in the Mill Race, Structure to be fitted with penstock for maintenance. A base flow will be maintained in the millrace at all times.
C01_G01	1643 to 5815	-	Channel maintenance, as and when necessary over a distance of 4172m from the confluence of The Glashaboy River with Mill Race 1 (C01_1643)to the confluence with Bleach Hill Stream (C01_5815).
C08_G01	0 to 881	-	Channel maintenance, as and when necessary over a distance of 881m from the confluence of the Glashaboy River and Mill Race 3 (C08_000) and the bifurcation of the Glashaboy River and Mill Race 3 (C08_881).

Notes:
1. Do not scale from drawing.
2. Proposed works geometry and extents are subject to detailed design.
3. This drawing should be read in conjunction with all other Glashaboy River (Glanmire/Sallybrook) Drainage Scheme Exhibition Drawings and Schedules.
4. Section C08.1 faces eastward.

Location Plan



Key Plan

0 5 10 20 50 Metres

Scale 1:1,000 at A1
Scale 1:2,000 at A3

Key to Plan

- Watercourse
- C08_300 — Channel Centreline, Reference (C08) and Chainage (300m)
- C08_B01 — Interference Reference
- GR_301 C01.1 / GR_301 C01.1 — Location and Reference of Cross Section
- 50 — Proposed Works Chainage (m)
- Proposed Flood Defence Wall
- Existing Culvert to be Retained
- Proposed Flow Control Structure

Drg. No. GR_204 Proposed Flood Defences - Plan Layout (Sheet 4 of 16)

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Glashaboy River (Glanmire/Sallybrook) Drainage Scheme

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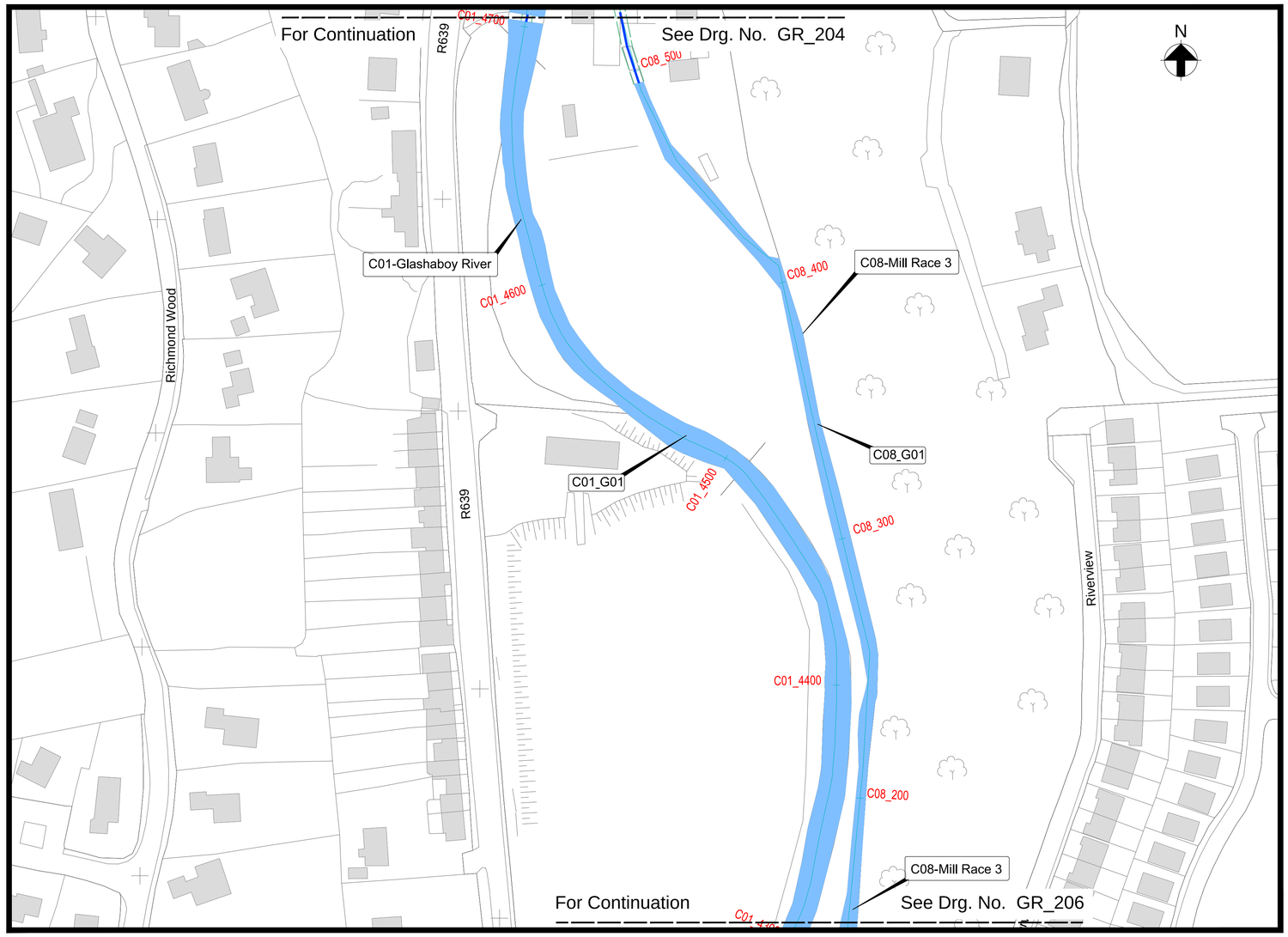
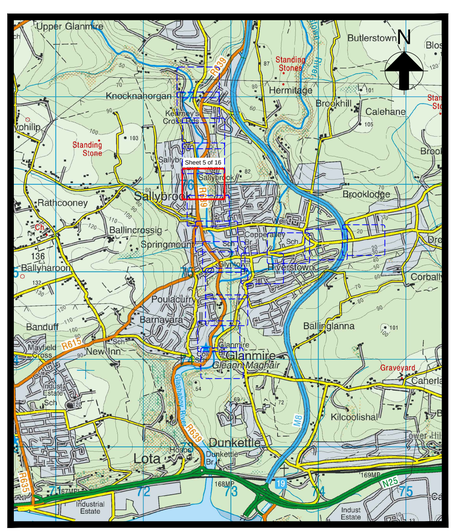


Location Plan

0 5 10 20 50 Metres

Scale 1:1,000 at A1
Scale 1:2,000 at A3



Key Plan

Key to Plan

- Watercourse
- C08_300 — Channel Centreline, Reference (C08) and Chainage (300m)
- C08_B01 — Interference Reference
- 50 — Proposed Works Chainage (m)
- Existing Culvert To Be Retained

Interference Reference	Channel Chainage	Proposed Works Chainage (m)	General Description of Proposed Works
C01_G01	1643 to 5815	-	Channel maintenance, as and when necessary over a distance of 4172m from the confluence of The Glashaboy River with Mill Race 1 (C01_1643)to the confluence with Bleach Hill Stream (C01_5815).
C08_G01	0 to 881	-	Channel maintenance, as and when necessary over a distance of 881m from the confluence of the Glashaboy River and Mill Race 3 (C08_000) and the bifurcation of the Glashaboy River and Mill Race 3 (C08_881).

Notes:
1. Do not scale from drawing.
2. Proposed works geometry and extents are subject to detailed design.
3. This drawing should be read in conjunction with all other Glashaboy River (Glanmire/Sallybrook) Drainage Scheme Exhibition Drawings and Schedules.

Drg. No. GR_205 Proposed Flood Defences - Plan Layout (Sheet 5 of 16)

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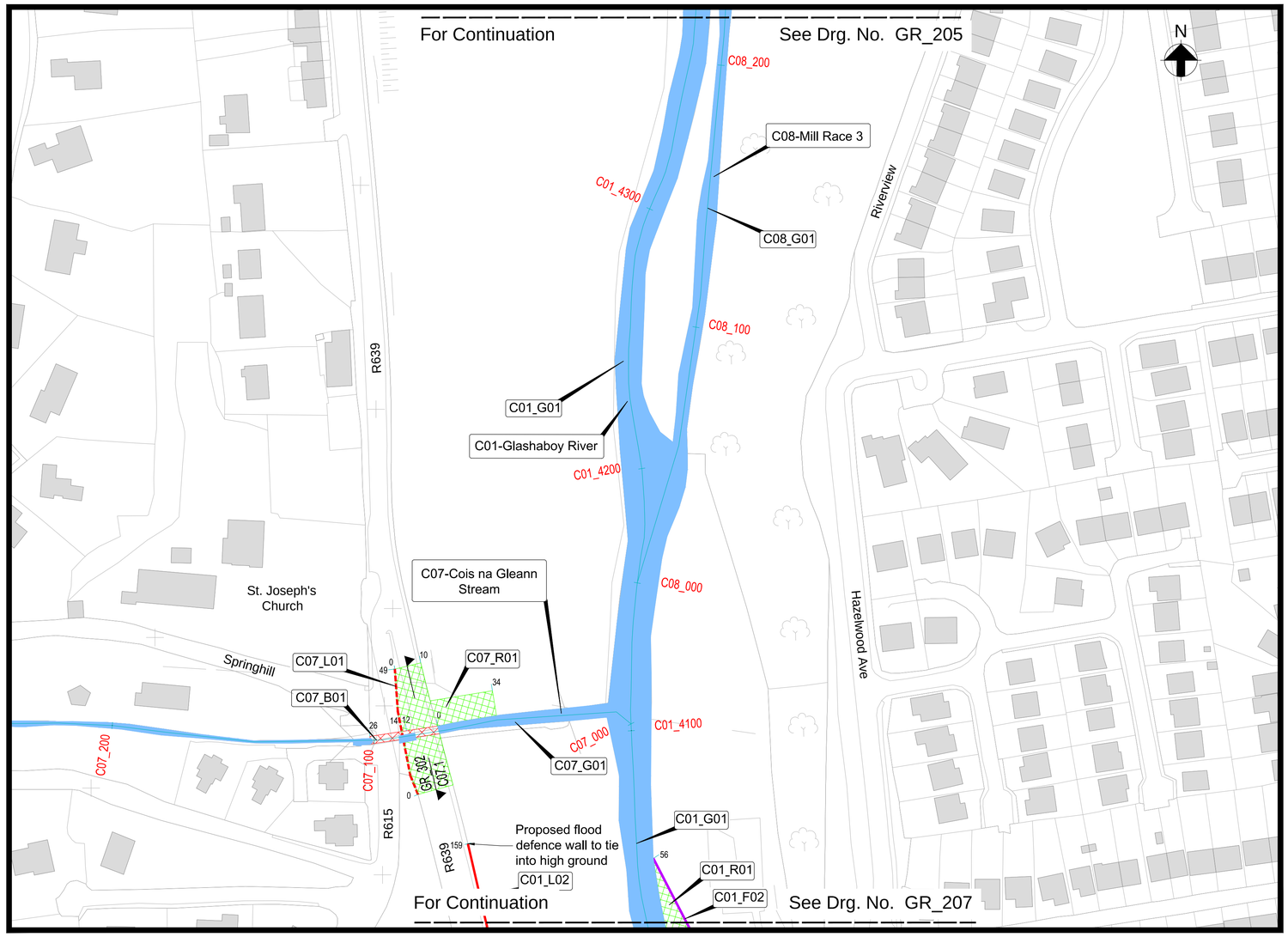
Glashaboy River (Glanmire/Sallybrook) Drainage Scheme

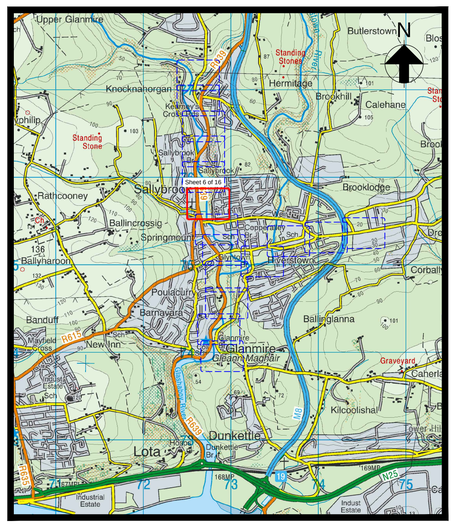
Issued for Exhibition November 2016



Interference Reference	Channel Chainage	Proposed Works Chainage (m)	General Description of Proposed Works
C01_G01	1643 to 5815	-	Channel maintenance, as and when necessary over a distance of 4172m from the confluence of The Glashaboy River with Mill Race 1 (C01_1643)to the confluence with Bleach Hill Stream (C01_5815).
C08_G01	0 to 881	-	Channel maintenance, as and when necessary over a distance of 881m from the confluence of the Glashaboy River and Mill Race 3 (C08_000) and the bifurcation of the Glashaboy River and Mill Race 3 (C08_881).
C07_G01	0 to 111	-	Channel maintenance, as and when necessary over a distance of 110m from the confluence of the Cois na Gleann Stream and Glashaboy River (C07_000) to 10m upstream of the replacement culvert at C07_111.
C07_B01	75 to 87	0 to 12	Existing culvert to be replaced with a new 2.75m wide by 0.9m high rectangular culvert.
C07_B01	87 to 89	12 to 14	Existing open channel section to be culverted with a new 2.75m wide by 0.9m high rectangular culvert.
C07_B01	89 to 101	14 to 26	Existing culvert to be replaced with a new 2.75m wide by 0.9m high rectangular culvert. Existing trashscreen upstream to be removed from the culvert.
C07_R01	52 to 90	0 to 49	Proposed road regrading on the R639 to facilitate the construction of the replacement Cois Na Gleann Stream culvert under the R639 road.
C07_L01	89.00	0 to 49	Proposed retaining wall to be constructed approximately 0.8m above existing R639 road levels. Wall to have sandstone finish.
C01_L02	3996 to 4061	0 to 159	Proposed reinforced concrete flood defence wall to be constructed to 13.49mOD flood defence level (approximately 1.2m above existing road levels). All drainage outfalls to be fitted with non-return valves. Flood defence wall to have sandstone cladding on both sides.
C01_F02	3995 to 4050	0 to 56	Fencing to be provided around the open channel for safety/security.
C01_R01	3995 to 4050	0 to 56	Proposed flood relief channel to be constructed with engineered grassed slopes.

Notes:
1. Do not scale from drawing.
2. Proposed works geometry and extents are subject to detailed design.
3. This drawing should be read in conjunction with all other Glashaboy River (Glanmire/Sallybrook) Drainage Scheme Exhibition Drawings and Schedules.
4. Section C07.1 faces eastwards

Location Plan



Key Plan

0 5 10 20 50 Metres

Scale 1:1,000 at A1
Scale 1:2,000 at A3

Key to Plan

- Watercourse
- C08_300 — Channel Centreline, Reference (C08) and Chainage (300m)
- C08_B01 — Interference Reference
- GR_301 C01.1 / GR_301 C01.1 — Location and Reference of Cross Section
- 50 — Proposed Works Chainage (m)
- Proposed Flood Defence Wall
- Proposed Replacement Concrete Culvert
- Proposed Regrading of Ground Levels
- Proposed Retaining Wall
- Proposed Boundary works

Drg. No. GR_206 Proposed Flood Defences - Plan Layout (Sheet 6 of 16)

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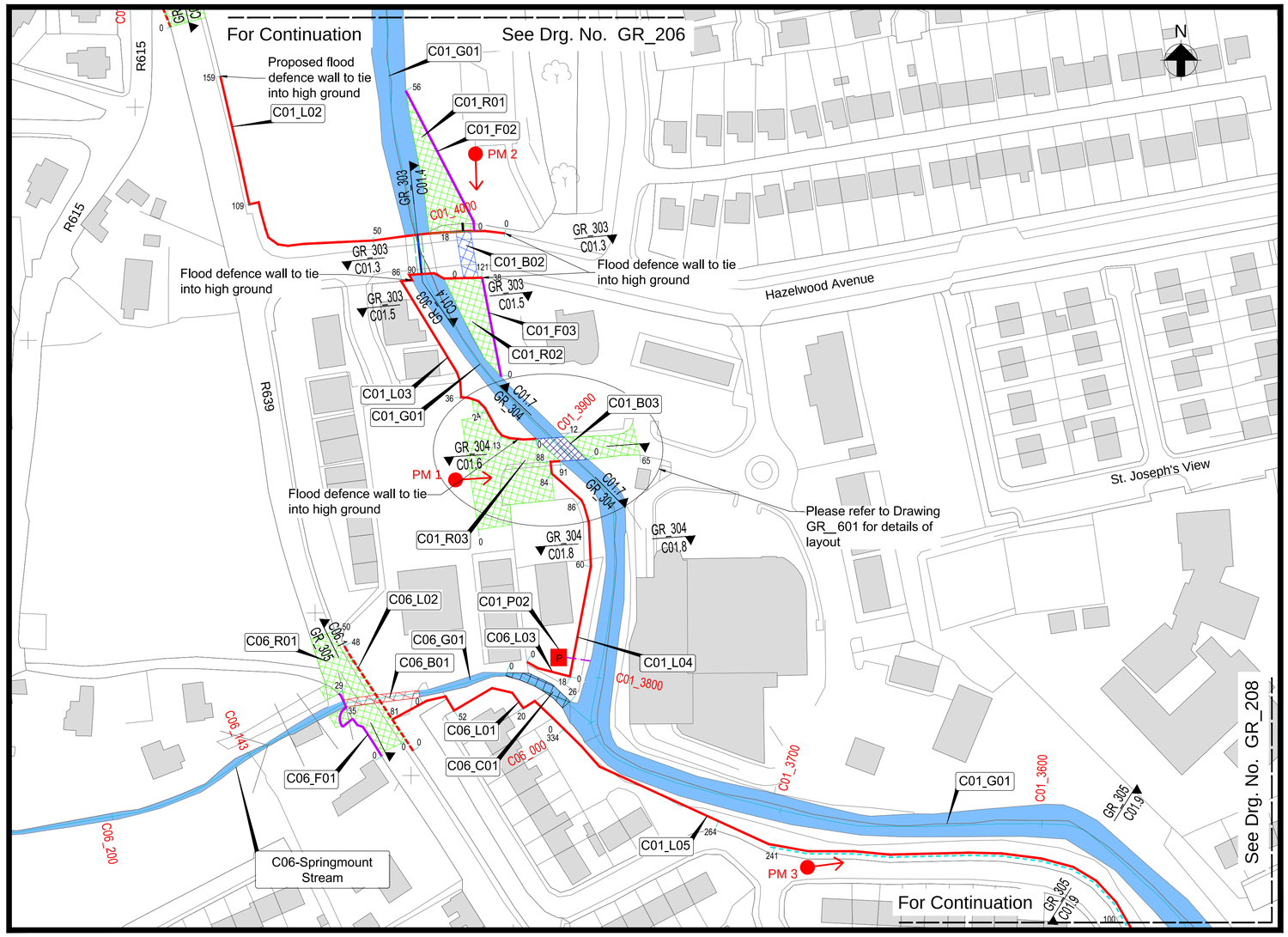
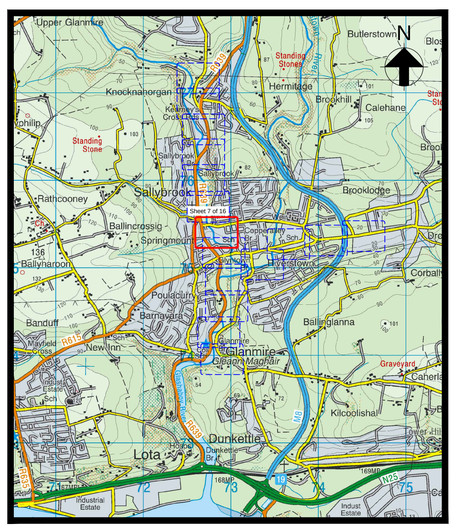
Glashaboy River (Glanmire/Sallybrook) Drainage Scheme

Issued for Exhibition November 2016



Location Plan



Key Plan

0 5 10 20 50 Metres

Scale 1:1,000 at A1
Scale 1:2,000 at A3

Key to Plan

- Watercourse
- C08_300 — Channel Centreline, Reference (C08) and Chainage (300m)
- PM 1 — Photomontage (Location, Orientation and No.)
- C08_B01 — Interference Reference
- GR_301 C01.1 / GR_301 C01.1 — Location and Reference of Cross Section
- 50 — Proposed Works Chainage (m)
- Proposed Retaining Wall
- P — Proposed Pumping Station (Surface Water)
- Proposed Channel Works
- Proposed New Bridge
- Proposed Regrading of Ground Levels
- Existing Culvert To Be Retained
- Proposed Flood Defence Wall
- Proposed Reinforced Concrete Culvert
- Proposed Replacement Reinforced Concrete Culvert
- Proposed Drain (Surface Water)
- Proposed Boundary works
- Proposed Rising Main (Surface Water)

Notes:

1. Do not scale from drawing.
2. Proposed works geometry and extents are subject to detailed design.
3. This drawing should be read in conjunction with all other Glashaboy River (Glanmire/Sallybrook) Drainage Scheme Exhibition Drawings and Schedules.
4. All sections on this drawing are taken looking downstream except C01.7 which faces eastward.

Interference Reference	Channel Chainage	Proposed Works Chainage (m)	General Description of Proposed Works
C01_G01	1643 to 5815	-	Channel maintenance, as and when necessary over a distance of 4172m from the confluence of The Glashaboy River with Mill Race 1 (C01_1643)to the confluence with Bleach Hill Stream (C01_5815).
C06_G01	0 to 133	-	Channel maintenance, as and when necessary over a distance of 143m from the confluence of the Springmount Stream and the Glashaboy River (C06_000) and 10m upstream of the proposed culvert (C06_143).
C01_L02	3996 to 4061	0 to 159	Proposed reinforced concrete flood defence wall to be constructed to 13.49mOD flood defence level (approximately 1.2m above existing road levels). All drainage outfalls to be fitted with non-return valves. Flood defence wall to have sandstone cladding on both sides.
C01_F02	3995 to 4050	0 to 56	Fencing to be provided around the open channel for safety/security.
C01_R01	3995 to 4050	0 to 56	Proposed flood relief channel to be constructed with engineered grassed slopes.
C01_B02	3980 to 3995	0 to 18	Proposed 5.5m wide by 1.75m high rectangular flood relief culvert to be constructed.
C01_F03	3938 to 3980	0 to 38	Fencing to be provided around the open channel for safety/security.
C01_R02	3938 to 3980	0 to 38	Proposed flood relief channel to be constructed with engineered grassed slopes.
C01_L03	3977 to 3980	86 to 121	Proposed reinforced concrete flood defence wall to be constructed to 12.7mOD flood defence level (typically 0.9m above existing ground levels). All drainage outfalls to be fitted with non-return valves. Flood defence wall to have sandstone finish on the northern side of the wall.
C01_L03	3922 to 3977	24 to 86	Proposed reinforced concrete flood defence wall to be constructed to 12.7mOD flood defence level (typically 0.9m above existing ground levels) with a railing to 1.8m above ground level. All drainage outfalls to be fitted with non-return valves. Flood defence wall to have a concrete fair faced finish on both sides.
C01_L03	3910 to 3922	0 to 24	Proposed reinforced concrete flood defence wall to be constructed to 12.7mOD flood defence level (typically 0.9m above existing ground levels). A Sandstone finished wall will extend above the road ramp (C01_R03) (typically 0.5m) to provide a barrier along the side of the ramp. Proposed flood defence wall to tie in with existing wall on the upstream end. All drainage outfalls to be fitted with non-return valves.
C01_B03	3889 to 3901	0 to 12	Replace existing bridge with a new reinforced concrete bridge. Bridge to be 12m clear span. Proposed bridge soffit level to be 12.3mOD, (approximately 1.85m above existing bridge soffit).
C01_R03	3880 to 3932	0 to 65	Regrading of existing ground to facilitate the construction of the proposed new bridge. Ground levels to tie into existing levels on either side of the proposed bridge.
C01_L04	3800 to 3888	0 to 91	New flood defence wall constructed to flood defence level of 12.2mOD (typically 1.5m above existing ground levels in the funeral home car park). The Flood defence wall is to tie into the proposed bridge at the upstream end. All drainage outfalls to be fitted with non-return valves. Flood defence wall to have concrete fair faced finish on both sides.
C01_P02	3804	-	Proposed local surface water pumping station, collector drain, manhole and rising main to be installed for operation during a flood event at C01_3804. All outlets to be fitted with non-return valves.
C06_B01	75 to 101	0 to 35	Replace existing twin 0.4m diameter culverts with a new 1.75m wide by 0.9m high rectangular culvert.
C06_C01	11 to 38	0 to 26	Removal of any in-channel flow obstruction and level channel bed.
C06_R01	87 to 100	0 to 50	Localised road regrading to facilitate the construction of the replacement Springmount Stream culvert across the R639 road.
C06_L01	0 to 81	0 to 81	Proposed reinforced concrete flood defence wall to be constructed to a flood defence level of 11.64mOD (typically 1.3m above existing road level). All drainage outfalls to be fitted with non-return valves. Flood defence wall to have a concrete fair faced finish on both sides.
C06_L02	87	0 to 48	Proposed reinforced concrete retaining wall to be constructed typically 0.85m above existing wall levels. Wall to have a sandstone finish.
C06_F01	100	0 to 29	Modification to boundary wall and gate required due to localised road regrading in the vicinity.
C06_L03	12 to 33	0 to 18	New flood defence wall constructed to flood defence level of 11.64mOD (typically 0.6m above existing ground levels. The Flood defence wall is to tie into high ground to the west. All drainage outfalls to be fitted with non-return valves. Flood defence wall to have concrete fair faced finish on both sides.
C01_L05	3720 to 3782	264 to 334	Existing wall to be replaced with a proposed reinforced concrete flood defence wall to be constructed to a flood defence level of 11.64mOD (typically 1.45m above existing ground levels). All drainage outfalls to be fitted with non-return valves. Flood defence wall to have a concrete fair faced finish on both sides, with tree cover on the dry side.
C01_L05	3700 to 3720	241 to 264	Existing wall to be replaced with a proposed reinforced concrete flood defence wall to be constructed to a flood defence level of 11.4mOD (typically 1.6m above existing ground levels). All drainage outfalls to be fitted with non-return valves. Flood defence wall to have a concrete fair faced finish on both sides, with tree cover on the dry side.
C01_L05	3530 to 3700	100 to 241	A new reinforced concrete flood defence wall to be constructed to a flood defence level of 11mOD (typically 1.5m above existing ground levels). The wall will be constructed on the Meadowbrook estate side of the existing wall to preserve the trees along the Glashaboy River bank. All drainage outfalls to be fitted with non-return valves. Flood defence wall to have a concrete fair faced finish on both sides, with shrubbery cover on the dry side.

Drg. No. GR_207 Proposed Flood Defences - Plan Layout (Sheet 7 of 16)

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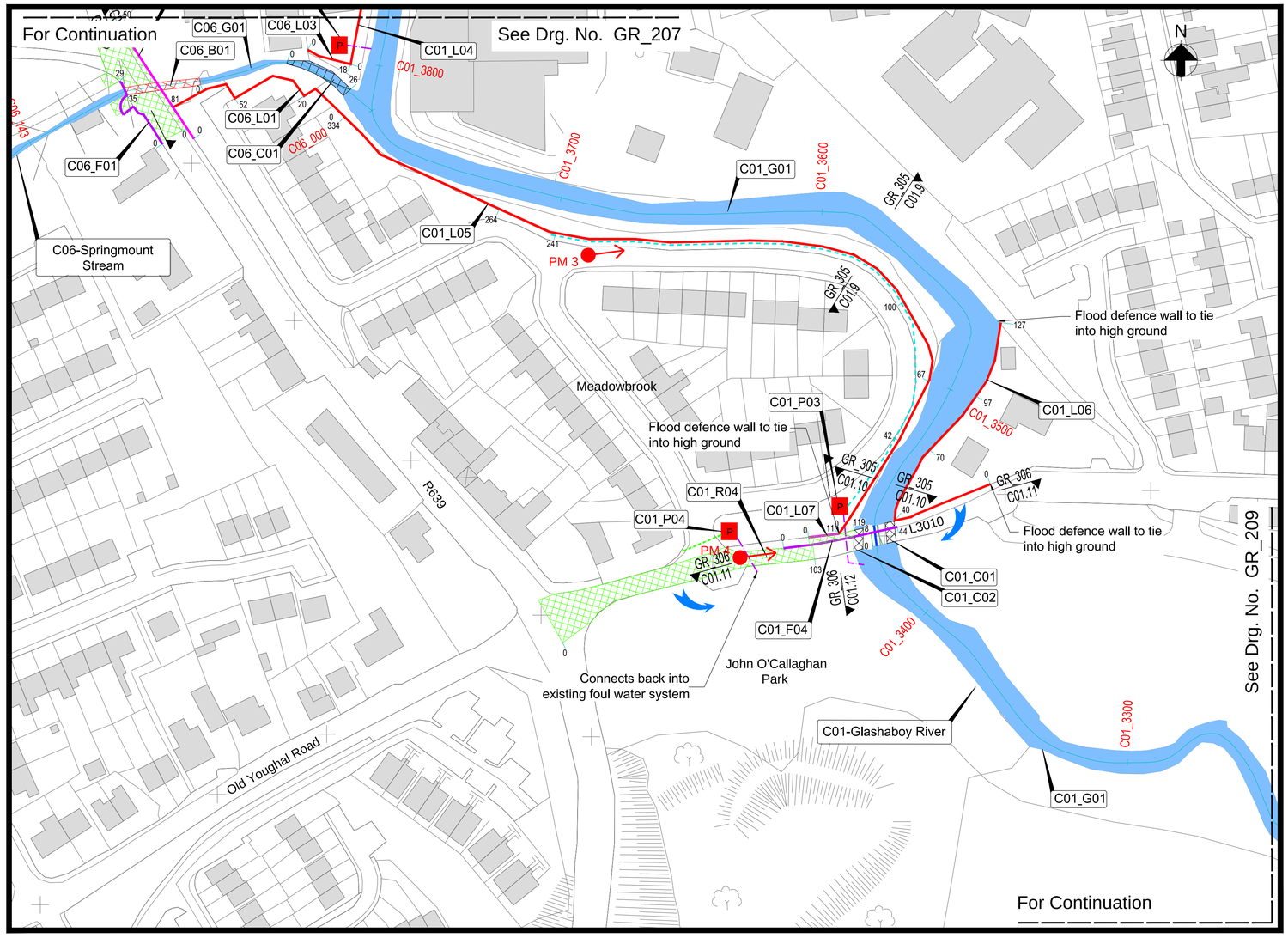
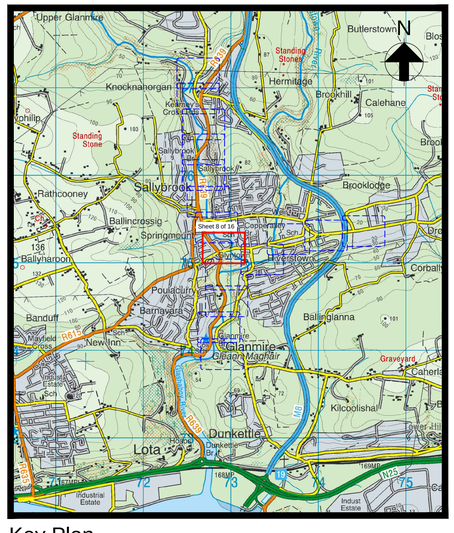
Glashaboy River (Glanmire/Sallybrook) Drainage Scheme

Issued for Exhibition November 2016



Location Plan



0 5 10 20 50 Metres

Scale 1:1,000 at A1
Scale 1:2,000 at A3

Key to Plan

- Watercourse
- C08_300 — Channel Centreline, Reference (C08) and Chainage (300m)
- PM 1 — Photomontage (Location, Orientation and No.)
- C08_B01 — Interference Reference
- GR_301 C01.1 / GR_301 C01.1 — Location and Reference of Cross Section
- 50 — Proposed Works Chainage (m)
- Proposed Regrading of Ground Levels
- Existing Bridge Arch to be Cleared
- Proposed Foul/Combined pipe
- Proposed Surface Water Overland Flow Route
- Existing Bridge/Culvert To Be Retained
- Proposed Flood Defence Wall
- Proposed Reinforced Concrete Culvert
- Proposed Retaining Wall
- Proposed Replacement Reinforced Concrete Culvert
- Proposed Drain (Surface Water)
- P — Proposed Pumping Station (Surface Water or Foul Water)
- Proposed Rising Main (Surface Water or Foul Water)
- Proposed Boundary works
- Proposed works to channel bed

Notes:
1. Do not scale from drawing.
2. Proposed works geometry and extents are subject to detailed design.
3. This drawing should be read in conjunction with all other Glashaboy River (Glanmire/Sallybrook) Drainage Scheme Exhibition Drawings and Schedules.
4. All section on this drawing are taken looking downstream except C01.12 which faces eastward.

Interference Reference	Channel Chainage	Proposed Works Chainage (m)	General Description of Proposed Works
C01_L04	3800 to 3888	0 to 91	New flood defence wall constructed to flood defence level of 12.2mOD (typically 1.5m above existing ground levels in the funeral home car park). The Flood defence wall is to tie into the proposed bridge at the upstream end. All drainage outfalls to be fitted with non-return valves. Flood defence wall to have concrete fair faced finish on both sides.
C01_P02	3804	-	Proposed local surface water pumping station, collector drain, manhole and rising main to be installed for operation during a flood event at C01_3804. All outlets to be fitted with non-return valves.
C06_B01	75 to 101	0 to 35	Replace existing twin 0.4m diameter culverts with a new 1.75m wide by 0.9m high rectangular culvert.
C06_C01	11 to 38	0 to 26	Removal of any in-channel flow obstruction and level channel bed.
C06_R01	87 to 100	0 to 50	Localised road regrading to facilitate the construction of the replacement Springmount Stream culvert across the R639 road.
C06_L01	0 to 81	0 to 81	Proposed reinforced concrete flood defence wall to be constructed to a flood defence level of 11.64mOD (typically 1.3m above existing road level). All drainage outfalls to be fitted with non-return valves. Flood defence wall to have a concrete fair faced finish on both sides.
C06_L02	87	0 to 48	Proposed reinforced concrete retaining wall to be constructed typically 0.85m above existing wall levels. Wall to have a sandstone finish.
C06_F01	100	0 to 29	Modification to boundary wall and gate required due to localised road regrading in the vicinity.
C06_L03	12 to 33	0 to 18	New flood defence wall constructed to flood defence level of 11.64mOD (typically 0.6m above existing ground levels. The Flood defence wall is to tie into high ground to the west. All drainage outfalls to be fitted with non-return valves. Flood defence wall to have concrete fair faced finish on both sides.
C06_G01	0 to 133	-	Channel maintenance, as and when necessary over a distance of 143m from the confluence of the Springmount Stream and the Glashaboy River (C06_000) and 10m upstream of the proposed culvert (C06_143).
C01_L05	3530 to 3700	264 to 334	A new reinforced concrete flood defence wall to be constructed to a flood defence level of 11mOD (typically 1.5m above existing ground levels). The wall will be constructed on the Meadowbrook estate side of the existing wall to preserve the trees along the Glashaboy River bank. All drainage outfalls to be fitted with non-return valves. Flood defence wall to have a concrete fair faced finish on both sides, with shrubbery cover on the dry side.
C01_L05	3500 to 3530	241 to 264	A new reinforced concrete flood defence wall to be constructed to a flood defence level of 10.6mOD (typically 1.5m above existing ground levels). The wall will be constructed on the Meadowbrook estate side of the existing wall to preserve the trees along the Glashaboy River bank. All drainage outfalls to be fitted with non-return valves. Flood defence wall to have a concrete fair faced finish on both sides, with tree cover on the dry side.
C01_L05	3475 to 3500	100 to 241	Existing wall to be replaced with a proposed reinforced concrete flood defence wall to be constructed to a flood defence level of 10.2mOD (typically 2m above existing ground levels). The wall will be constructed on the Meadowbrook estate side of the existing wall to preserve the trees along the Glashaboy River bank. All drainage outfalls to be fitted with non-return valves. Flood defence wall to have a concrete fair faced finish on both sides, with tree cover on the dry side.
C01_L05	3440 to 3475	67 to 100	Existing wall to be replaced with a proposed reinforced concrete flood defence wall to be constructed to a flood defence level of 9.9mOD (typically 1m above existing ground levels). All drainage outfalls to be fitted with non-return valves. Flood defence wall to have a concrete fair faced finish on both sides, with tree cover on the dry side.
C01_L05	3475 to 3500	42 to 67	Existing wall to be replaced with a proposed reinforced concrete flood defence wall to be constructed to a flood defence level of 10.2mOD (typically 2m above existing ground levels). The wall will be constructed on the Meadowbrook estate side of the existing wall to preserve the trees along the Glashaboy River bank. All drainage outfalls to be fitted with non-return valves. Flood defence wall to have a concrete fair faced finish on both sides, with tree cover on the dry side.
C01_L05	3440 to 3475	0 to 42	Existing wall to be replaced with a proposed reinforced concrete flood defence wall to be constructed to a flood defence level of 9.9mOD (typically 1m above existing ground levels). All drainage outfalls to be fitted with non-return valves. Flood defence wall to have a concrete fair faced finish on both sides, with tree cover on the dry side.
C01_L06	3500 to 3530	97 to 127	Proposed reinforced concrete flood defence wall to be constructed to a flood defence level of 10.6m OD (typically 1.2m above existing ground levels). All drainage outfalls to be fitted with non-return valves. Flood defence wall to have a concrete fair faced finish on both sides with tree cover on the dry side.
C01_L06	3475 to 3500	70 to 97	Proposed reinforced concrete flood defence wall to be constructed to a flood defence level of 10.3mOD (typically 1.4m above existing ground levels). All drainage outfalls to be fitted with non-return valves. Flood defence wall to have a concrete fair faced finish on both sides with tree cover on the dry side.
C01_L06	3440 to 3475	40 to 70	Proposed reinforced concrete flood defence wall to be constructed to a flood defence level of 9.9mOD (typically 1.2m above existing ground levels). All drainage outfalls to be fitted with non-return valves. Flood defence wall to have a concrete fair faced finish with tree cover on the northern side and a sandstone finish on the dry side.
C01_L06	3440	0 to 40	Proposed reinforced concrete flood defence wall to be constructed to a flood defence level of 9.9mOD (typically 0.9m above existing road levels). All drainage outfalls to be fitted with non-return valves. Flood defence wall to have a concrete fair faced finish with tree cover on the northern side and a sandstone finish on the dry side.
C01_P03	3425	N/A	Proposed local surface water pumping station, collector drain, manhole and rising main to be installed for operation during a flood event at C01_3425. All outlets to be fitted with non-return valves.
C01_P04	N/A	N/A	Proposed foul water pumping station, with overflow manhole and rising main to be installed for operation when required to pump foul water trapped in Meadowbrook Estate during a flood event into the foul network downstream of the estate.
C01_L07	3438	0 to 11	Proposed reinforced concrete retaining wall to be constructed typically 0.5m above existing footpath level. Wall to have a sandstone finish on the exposed side.
C01_F04	3437	0 to 44	The existing Riverstown Bridge parapet wall to be modified to provide guarding to pedestrians.
C01_R04	3429 to 3438	0 to 119	Proposed localised road and footpath regrading and re-cambering to divert surface water runoff during a flood event southwards into the Glashaboy River via O'Callaghan Park, downstream of Riverstown Bridge.
C01_R04	3429 to 3438	0 to 119	Proposed localised road and footpath regrading and re-cambering to divert surface water runoff during a flood event southwards into the Glashaboy River via O'Callaghan Park, downstream of Riverstown Bridge.
C01_C01	3433 to 3440	0 to 8	Existing bridge arch to be cleared by removing built up silt and vegetation (Left Bank).
C01_C02	3432 to 3440	0 to 8	Existing bridge arch to be cleared by removing built up silt and vegetation. Existing manhole in bridge arch to be removed and services diverted (Right Bank).
C01_G01	1643 to 5815	-	Channel maintenance, as and when necessary over a distance of 4172m from the confluence of The Glashaboy River with Mill Race 1 (C01_1643)to the confluence with Bleach Hill Stream (C01_5815).

Drg. No. GR_208 Proposed Flood Defences - Plan Layout (Sheet 8 of 16)

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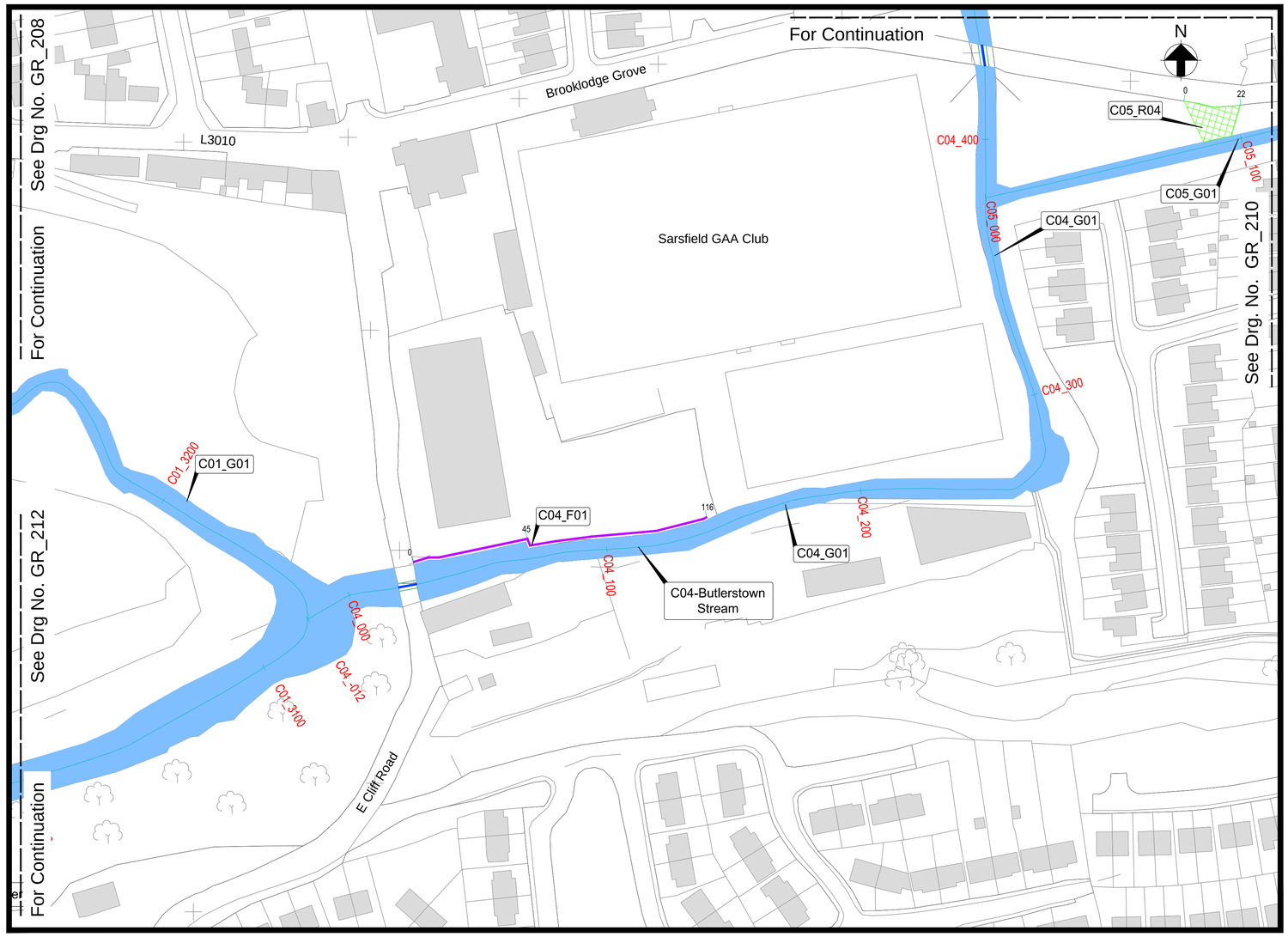
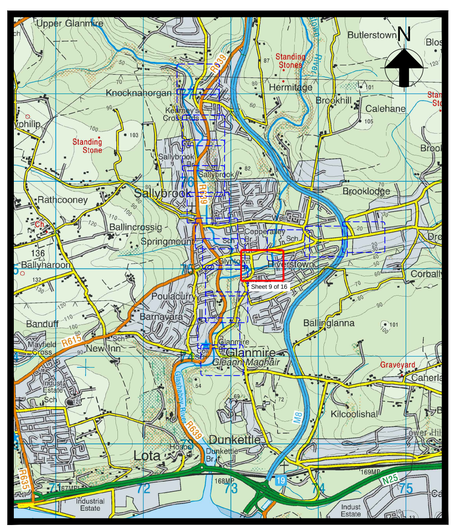
Glashaboy River (Glanmire/Sallybrook) Drainage Scheme

Issued for Exhibition November 2016



Location Plan



Key Plan

0 5 10 20 50 Metres

Scale 1:1,000 at A1
Scale 1:2,000 at A3

Key to Plan

- Watercourse
- C08_300 — Channel Centreline, Reference (C08) and Chainage (300m)
- C08_B01 — Interference Reference
- 50 — Proposed Works Chainage (m)
- Existing Culvert To Be Retained
- Proposed Boundary works
- Proposed Regrading of Ground Levels

Interference Reference	Channel Chainage	Proposed Works Chainage (m)	General Description of Proposed Works
C05_R04	468	0 to 22	Minimal landscaping and regrading of ground levels, to facilitate overland flow on Brooklodge Grove back into the Glenmore Stream.
C04_F01	33 to 150	0 to 116	Existing boundary wall to be modified to allow overland flow to pass through it.
C01_G01	1643 to 5815	-	Channel maintenance, as and when necessary over a distance of 4172m from the confluence of The Glashaboy River with Mill Race 1 (C01_1643)to the confluence with Bleach Hill Stream (C01_5815).
C04_G01	0 to 640	-	Channel maintenance, as and when necessary over a distance of 640m from the confluence of the Butlerstown Stream and Glashaboy River (C04_000) to chainage 640 on the Butlerstown Stream.
C05_G01	0 to 1042	-	Channel maintenance, as and when necessary over a distance of 1042m from the confluence of the Glenmore Stream and the Butlerstown Stream (C05_000) to chainage 1042 on the Glenmore Stream.

Notes:
1. Do not scale from drawing.
2. Proposed works geometry and extents are subject to detailed design.
3. This drawing should be read in conjunction with all other Glashaboy River (Glanmire/Sallybrook) Drainage Scheme Exhibition Drawings and Schedules.

Drg. No. GR_209 Proposed Flood Defences - Plan Layout (Sheet 9 of 16)

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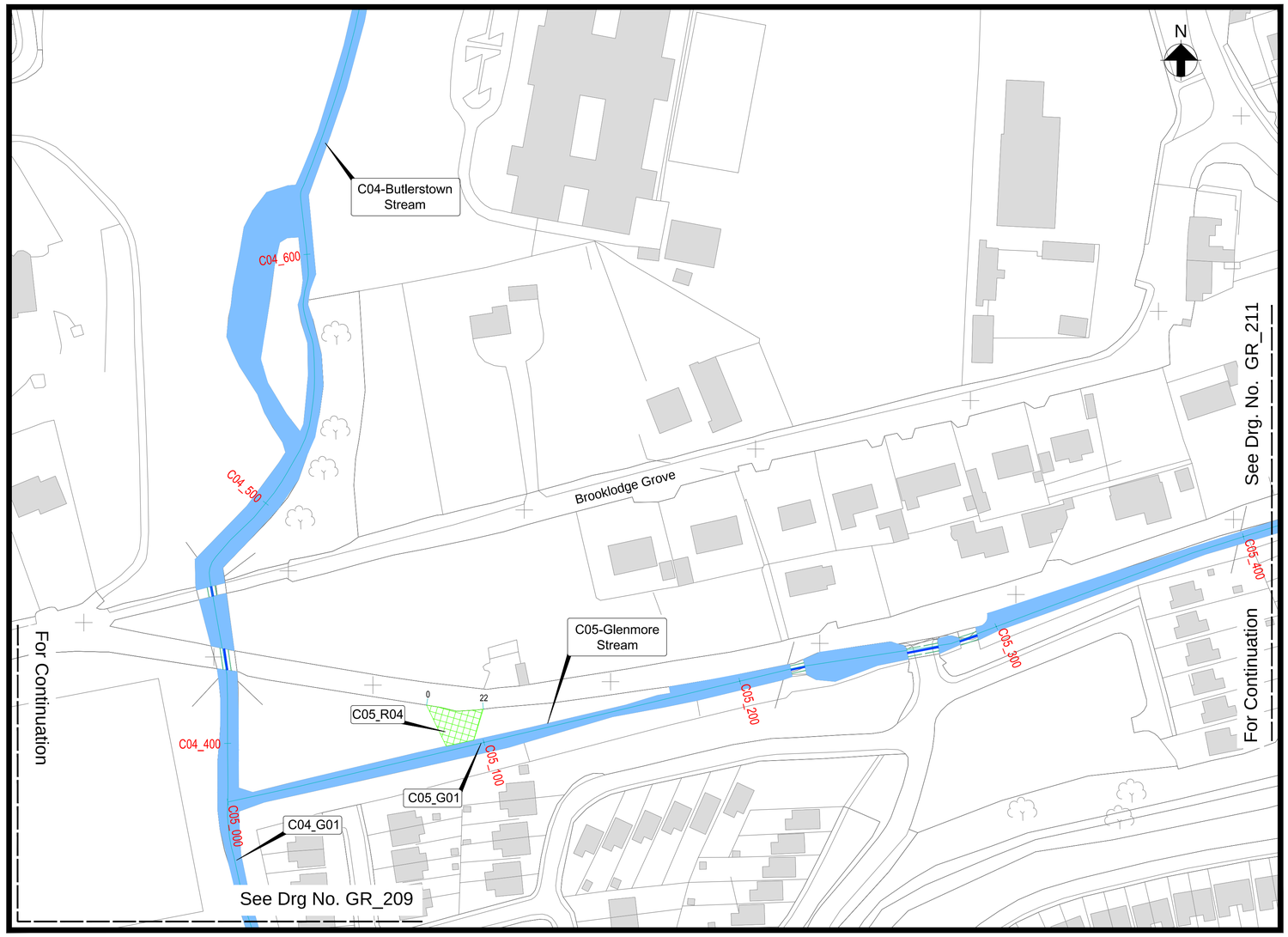
Glashaboy River (Glanmire/Sallybrook) Drainage Scheme

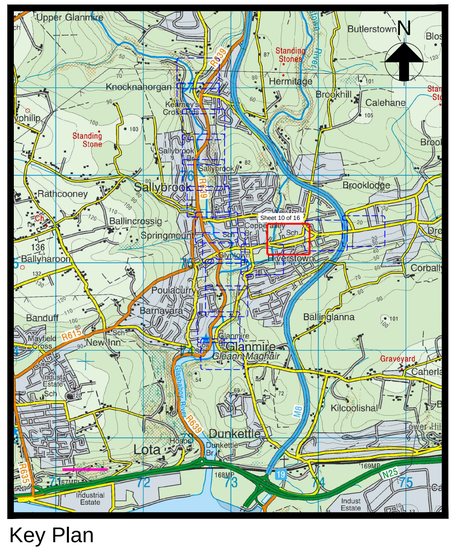
Issued for Exhibition November 2016



Interference Reference	Channel Chainage	Proposed Works Chainage (m)	General Description of Proposed Works
C05_R04	468	0 to 22	Minimal landscaping and regrading of ground levels, to facilitate overland flow on Brooklodge Grove back into the Glenmore Stream.
C04_G01	0 to 640	-	Channel maintenance, as and when necessary over a distance of 640m from the confluence of the Butlerstown Stream and Glashaboy River (C04_000) to chainage 640 on the Butlerstown Stream.
C05_G01	0 to 1042	-	Channel maintenance, as and when necessary over a distance of 1042m from the confluence of the Glenmore Stream and the Butlerstown Stream (C05_000) to chainage 1042 on the Glenmore Stream.

Notes:
1. Do not scale from drawing.
2. Proposed works geometry and extents are subject to detailed design.
3. This drawing should be read in conjunction with all other Glashaboy River (Glanmire/Sallybrook) Drainage Scheme Exhibition Drawings and Schedules.

Location Plan



Key Plan

0 5 10 20 50 Metres

Scale 1:1,000 at A1
Scale 1:2,000 at A3

Key to Plan

- Watercourse
- C08_300 — Channel Centreline, Reference (C08) and Chainage (300m)
- C08_B01 — Interference Reference
- 50 — Proposed Works Chainage (m)
- Existing Culvert To Be Retained
- Proposed Regrading of Ground Levels

Drg. No. GR_210 Proposed Flood Defences - Plan Layout (Sheet 10 of 16)

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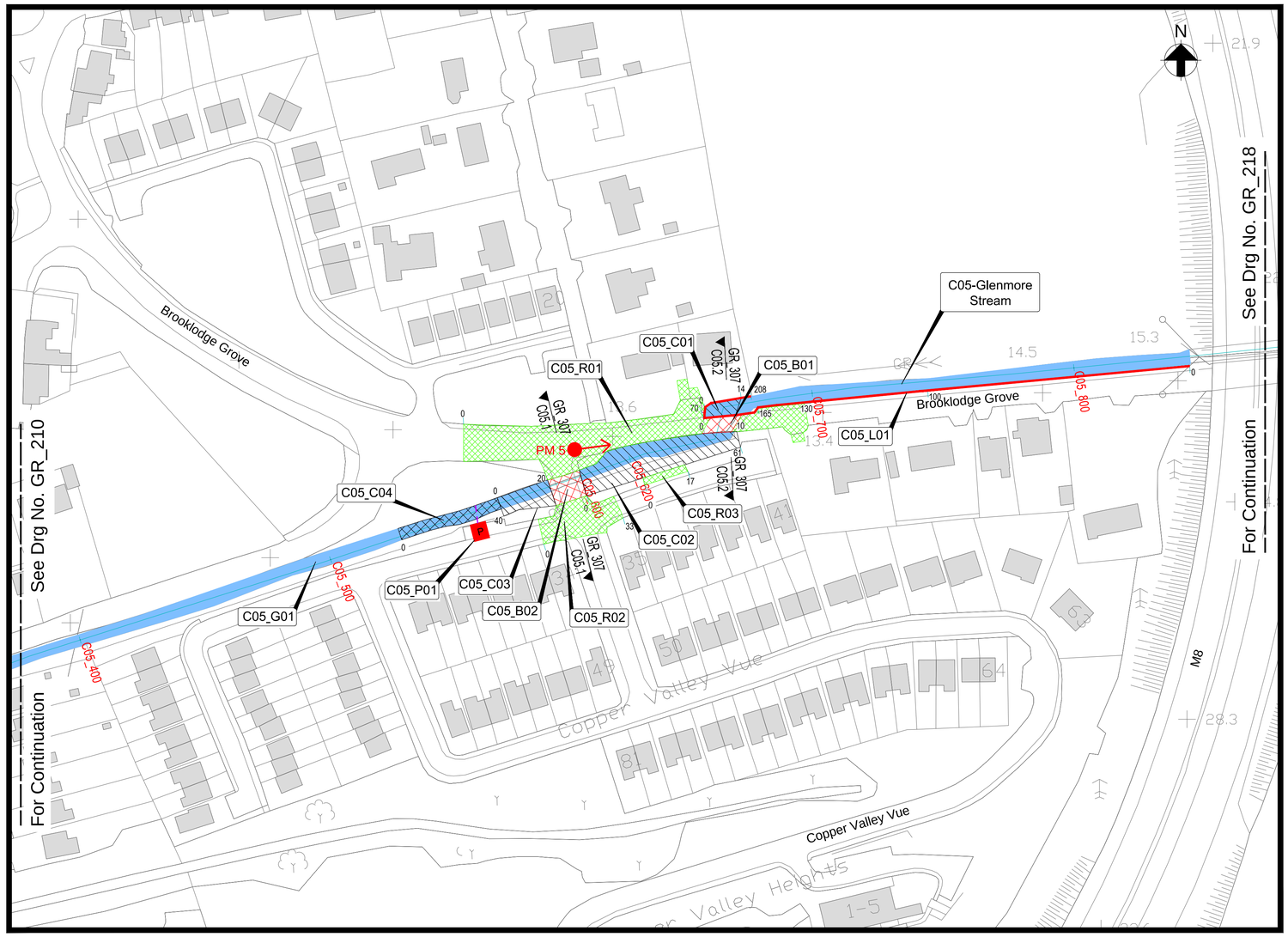
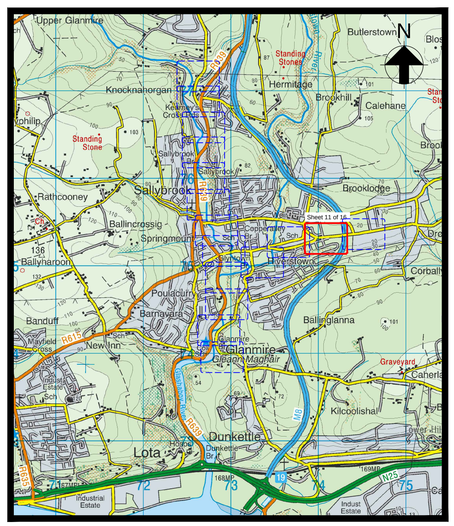
Glashaboy River (Glanmire/Sallybrook) Drainage Scheme

Issued for Exhibition November 2016



Location Plan



Key Plan

0 5 10 20 50 Metres

Scale 1:1,000 at A1
Scale 1:2,000 at A3

Key to Plan

- Watercourse
- C08_300 — Channel Centreline, Reference (C08) and Chainage (300m)
- PM 1 — Photomontage (Location, Orientation and No.)
- C08_B01 — Interference Reference
- GR_301 C01.1 / GR_301 C01.1 — Location and Reference of Cross Section
- 50 — Proposed Works Chainage (m)
- Proposed Regrading of Ground Levels
- Proposed Flood Defence Wall
- Proposed Channel Deepening
- Proposed Channel Widening & Deepening
- Proposed Reinforced Concrete Culvert Replacement
- P — Proposed Pumping Station (Surface Water)
- Proposed Rising Main (Surface Water)

Interference Reference	Channel Chainage	Proposed Works Chainage (m)	General Description of Proposed Works
C05_G01	0 to 1042	-	Channel maintenance, as and when necessary over a distance of 1042m from the confluence of the Glenmore Stream and the Butlerstown Stream (C05_000) to chainage 1042 on the Glenmore Stream.
C05_R01	555 to 696	0 to 130	Brooklodge Grove road to be regraded to facilitate the construction of the proposed replacement culvert.
C05_L01	677 to 841	0 to 165	Existing wall to be strengthened. All drainage outfalls to be fitted with non-return valves.
C05_L01	662 to 677	165 to 208	Proposed reinforced concrete flood defence wall to be constructed to a flood defence level of 15.33mOD (typically 1.2m above existing ground levels). All drainage outfalls to be fitted with non-return valves. Sandstone cladding to the dry side only.
C05_C01	662 to 672	0 to 14	Channel to be deepened by 0.25m at the existing culvert inlet to facilitate the installation of the proposed replacement culvert at Brooklodge Grove.
C05_B01	656 to 662	0 to 10	Replace three existing culverts, (2.32m span arch, 2.95m wide by 0.68m high culvert and 2.95m wide by 0.67m high culvert) with a new 10m wide by 1.95m high rectangular culvert.
C05_R02	581 to 610	0 to 33	Entrance to Copper Valley Vue to be regraded to facilitate the construction of the proposed replacement culvert.
C05_C02	600 to 656	0 to 61	Channel to be widened by 5m and deepened by approximately 0.3m over a distance of 61m from the proposed culvert under the entrance to Copper Valley Vue (C05_600) to the proposed culvert under Brooklodge Grove (C05_656).
C05_B02	588 to 601	0 to 12	Replace existing 3.73m wide by 1.57m high culvert with a new 10m wide by 1.90m high rectangular culvert.
C05_C03	568 to 588	0 to 20	Channel to be widened by an average of 3m and deepened by 0.4m over a distance of 20m downstream of the proposed culvert replacement at Copper Valley Vue (C05_588).
C05_C04	528 to 568	0 to 40	Channel to be deepened by up to 0.4m for a distance of 40m downstream of Copper Valley Vue entrance.
C05_P01	555	-	Proposed local surface water pumping station, collector drain, manhole and rising main to be installed for operation during a flood event at C05_555. All outlets to be fitted with non-return valves.
C05_R03	621 to 638	0 to 17	Proposed regrading of car parking area.

Notes:
1. Do not scale from drawing.
2. Proposed works geometry and extents are subject to detailed design.
3. This drawing should be read in conjunction with all other Glashaboy River (Glanmire/Sallybrook) Drainage Scheme Exhibition Drawings and Schedules.
4. All sections on this drawing are taken looking downstream.

Drg. No. GR_211 Proposed Flood Defences - Plan Layout (Sheet 11 of 16)

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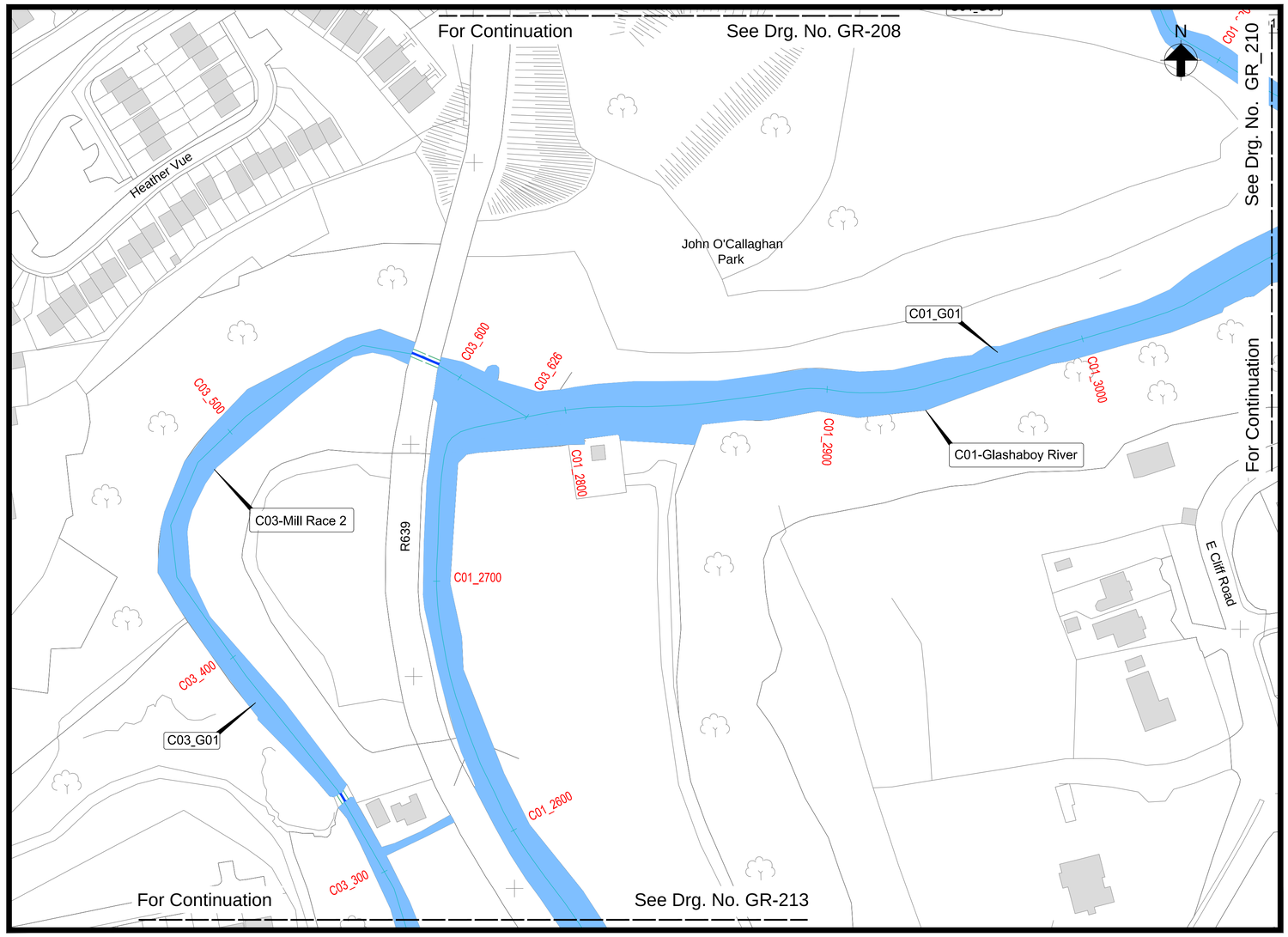
Glashaboy River (Glanmire/Sallybrook) Drainage Scheme

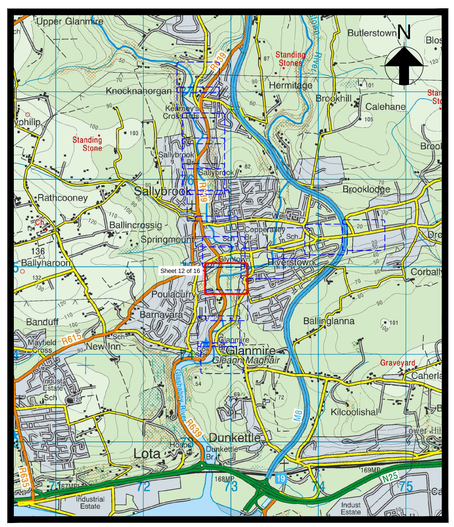
Issued for Exhibition November 2016



Interference Reference	Channel Chainage	Proposed Works Chainage (m)	General Description of Proposed Works
C01_G01	1643 to 5815	-	Channel maintenance, as and when necessary over a distance of 4172m from the confluence of The Glashaboy River with Mill Race 1 (C01_1643)to the confluence with Bleach Hill Stream (C01_5815).
C03_G01	0 to 626	-	Channel maintenance, as and when necessary over a distance of 626m along the length of Mill Race 2.

Notes:
1. Do not scale from drawing.
2. Proposed works geometry and extents are subject to detailed design.
3. This drawing should be read in conjunction with all other Glashaboy River (Glanmire/Sallybrook) Drainage Scheme Exhibition Drawings and Schedules.

Location Plan



Key Plan

0 5 10 20 50 Metres

Scale 1:1,000 at A1
Scale 1:2,000 at A3

Key to Plan

- Watercourse
- C08_300 — Channel Centreline, Reference (C08) and Chainage (300m)
- C08_B01 — Interference Reference
- Existing Culvert To Be Retained

Drg. No. GR_212 Proposed Flood Defences - Plan Layout (Sheet 12 of 16)

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Glashaboy River (Glanmire/Sallybrook) Drainage Scheme

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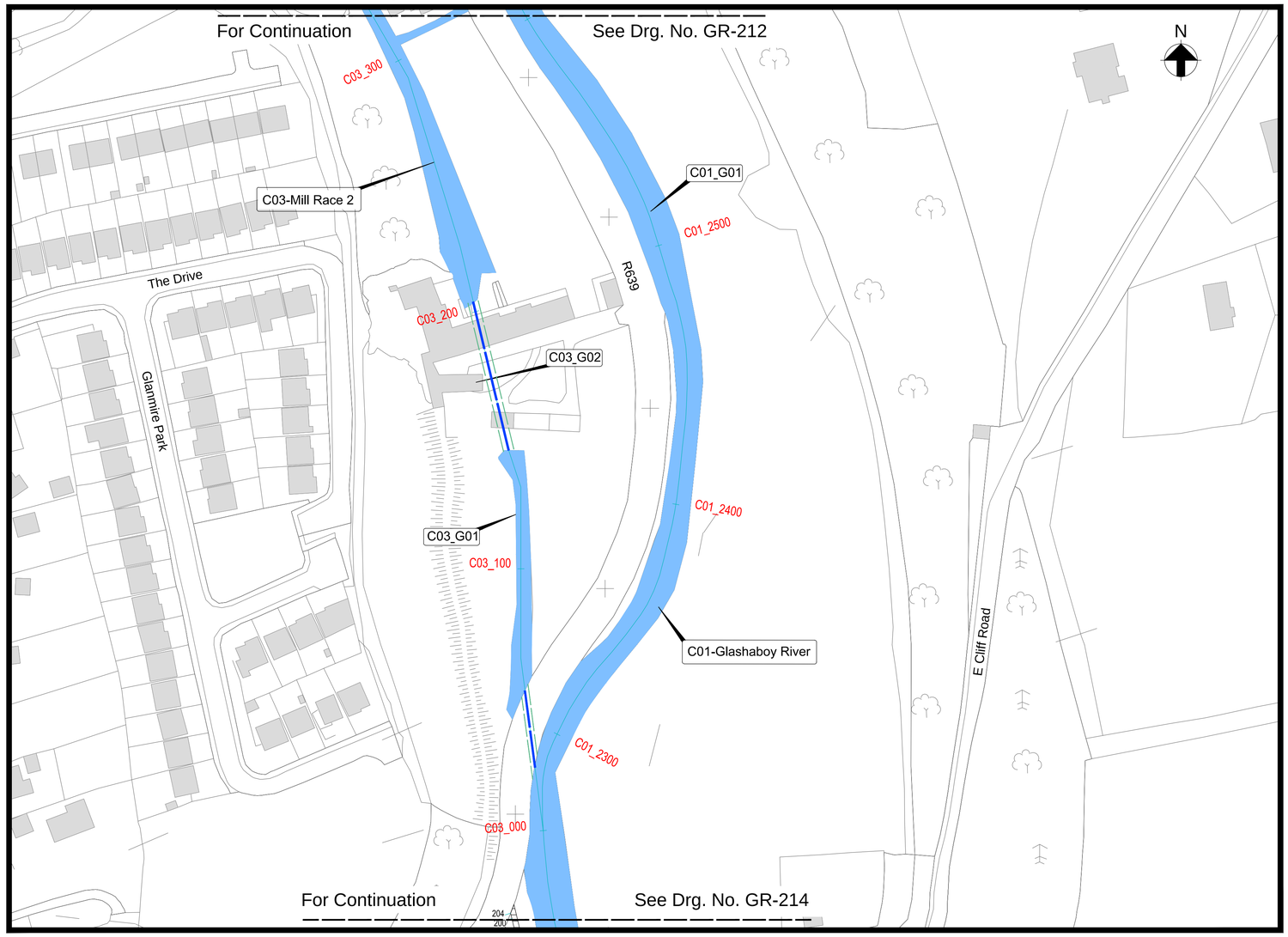
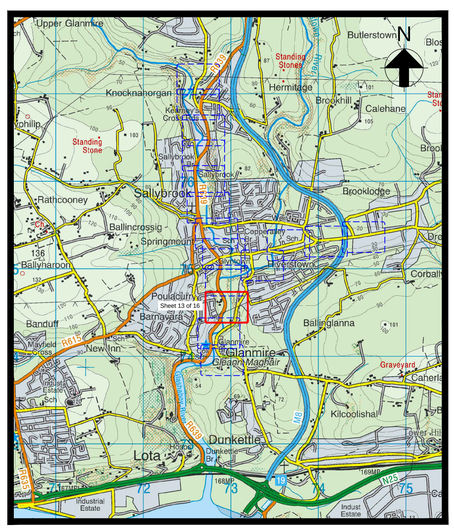


Interference Reference	Channel Chainage	Proposed Works Chainage (m)	General Description of Proposed Works
C01_G01	1643 to 5815	-	Channel maintenance, as and when necessary over a distance of 4172m from the confluence of The Glashaboy River with Mill Race 1 (C01_1643)to the confluence with Bleach Hill Stream (C01_5815).
C03_G01	0 to 626	-	Channel maintenance, as and when necessary over a distance of 626m along the length of Mill Race 2.
C03_G02	176	-	Marginal change in the peak water level for the 1 in 100 year fluvial flood event in the vicinity of the residential building at chainage 176 on Millrace 2.

Notes:
1. Do not scale from drawing.
2. Proposed works geometry and extents are subject to detailed design.
3. This drawing should be read in conjunction with all other Glashaboy River (Glanmire/Sallybrook) Drainage Scheme Exhibition Drawings and Schedules.

Location Plan



Key Plan

0 5 10 20 50 Metres

Scale 1:1,000 at A1
Scale 1:2,000 at A3

Key to Plan

- Watercourse
- C08_300 — Channel Centreline, Reference (C08) and Chainage (300m)
- C08_B01 — Interference Reference
- Existing Culvert To Be Retained

Drg. No. GR_213 Proposed Flood Defences - Plan Layout (Sheet 13 of 16)

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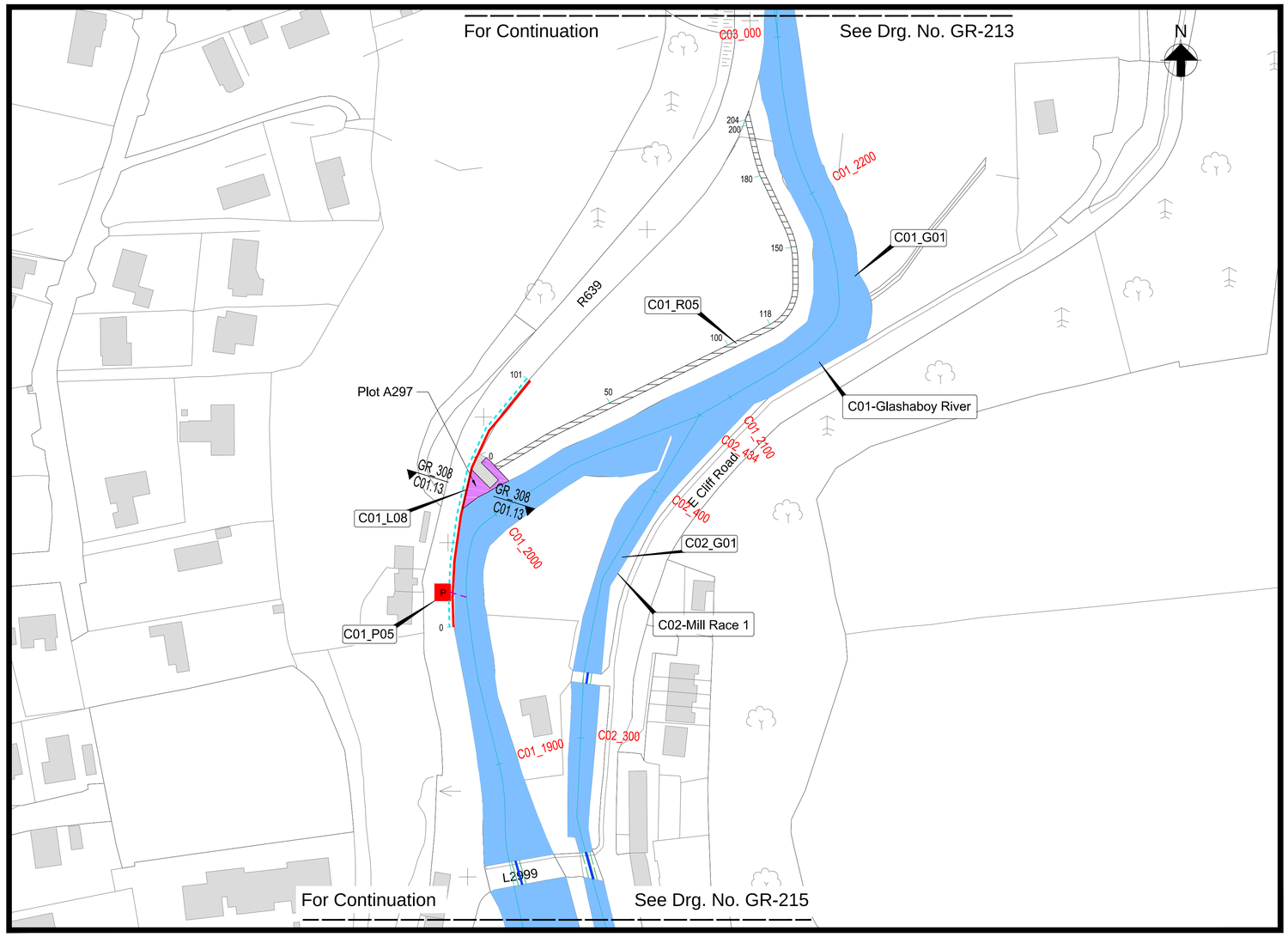
Glashaboy River (Glanmire/Sallybrook) Drainage Scheme

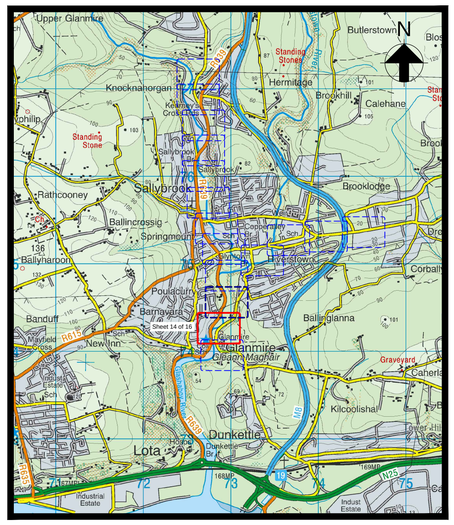
Issued for Exhibition November 2016



Interference Reference	Channel Chainage	Proposed Works Chainage (m)	General Description of Proposed Works
C01_G01	1643 to 5815	-	Channel maintenance, as and when necessary over a distance of 4172m from the confluence of The Glashaboy River with Mill Race 1 (C01_1643)to the confluence with Bleach Hill Stream (C01_5815).
C02_G01	0 to 434	-	Channel maintenance, as and when necessary over a distance of 434m along the length of Mill Race 1.
C01_R05	2010 to 2236	0 to 204	Ground to be regraded to formalise access track along the length of the Glashaboy River from chainage C01_2010 to chainage C01_2236. Right of way to be granted in favour of occupier/owner of Plot A297 along the line of the access track.
C01_L08	1954 to 2048	0 to 101	Proposed reinforced concrete flood defence wall to be constructed to a minimum flood defence level of 4.48mOD (or 1.2m above existing ground levels). All drainage outfalls to be fitted with non-return valves. Sandstone cladding on dry side only.
C01_P05	1964	-	Proposed local surface water pumping station, collector drain, manhole and rising main to be installed for operation during a flood event. All outlets to be fitted with non-return valves.

Notes:
1. Do not scale from drawing.
2. Proposed works geometry and extents are subject to detailed design.
3. This drawing should be read in conjunction with all other Glashaboy River (Glanmire/Sallybrook) Drainage Scheme Exhibition Drawings and Schedules.
4. All sections on this drawing are taken looking downstream.

Location Plan



Key Plan

0 5 10 20 50 Metres

Scale 1:1,000 at A1
Scale 1:2,000 at A3

Key to Plan

- Watercourse
- C08_300 — Channel Centreline, Reference (C08) and Chainage (300m)
- C08_B01 — Interference Reference
- GR_301 C01.1 / GR_301 C01.1 — Location and Reference of Cross Section
- 50 — Proposed Works Chainage (m)
- Existing Culvert To Be Retained
- Proposed Flood Defence Wall
- Proposed Drain (Surface Water)
- P — Proposed Pumping Station (Surface Water)
- Proposed Rising Main (Surface Water)
- Proposed Right of Way

Drg. No. GR_214 Proposed Flood Defences - Plan Layout (Sheet 14 of 16)

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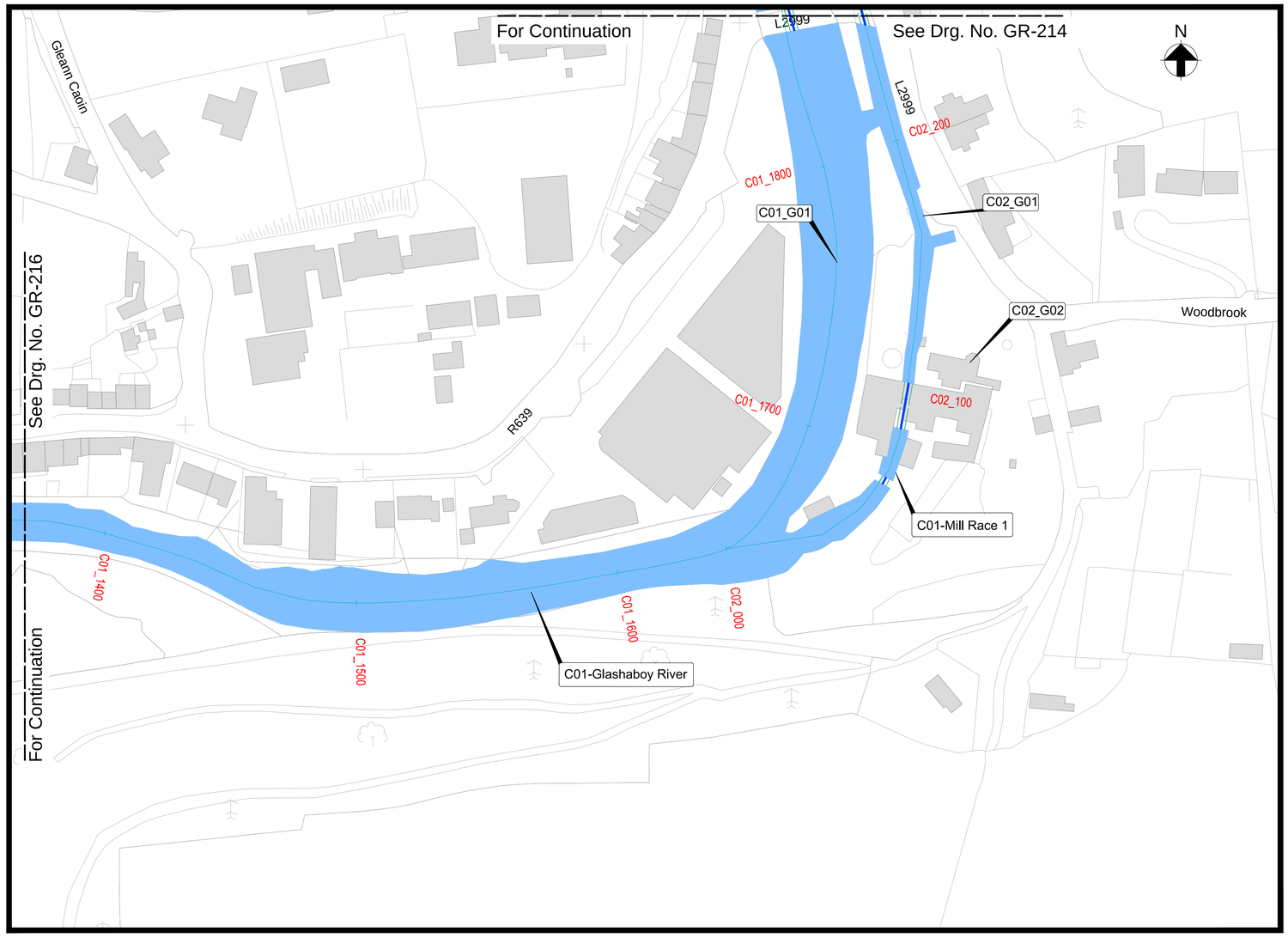
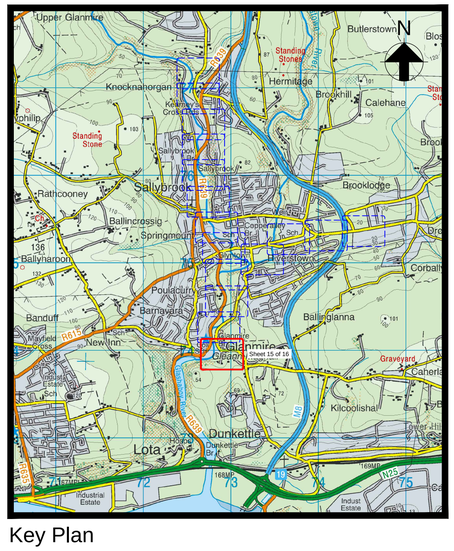
Glashaboy River (Glanmire/Sallybrook) Drainage Scheme

Issued for Exhibition November 2016



Location Plan



Key Plan

0 5 10 20 50 Metres

Scale 1:1,000 at A1
Scale 1:2,000 at A3

Key to Plan

- Watercourse
- C08_300 — Channel Centreline, Reference (C08) and Chainage (300m)
- C08_B01 — Interference Reference
- Existing Culvert To Be Retained

Interference Reference	Channel Chainage	Proposed Works Chainage (m)	General Description of Proposed Works
C01_G01	1643 to 5815	-	Channel maintenance, as and when necessary over a distance of 4172m from the confluence of The Glashaboy River with Mill Race 1 (C01_1643)to the confluence with Bleach Hill Stream (C01_5815).
C02_G01	0 to 434	-	Channel maintenance, as and when necessary over a distance of 434m along the length of Mill Race 1.
C02_G02	124	-	Marginal change in the peak water level for the 1 in 100 year fluvial/ 1 in 200 year tidal flood event in the vicinity of the residential building at chainage 124 on Millrace 1.

Notes:
1. Do not scale from drawing.
2. Proposed works geometry and extents are subject to detailed design.
3. This drawing should be read in conjunction with all other Glashaboy River (Glanmire/Sallybrook) Drainage Scheme Exhibition Drawings and Schedules.

Drg. No. GR_215 Proposed Flood Defences - Plan Layout (Sheet 15 of 16)

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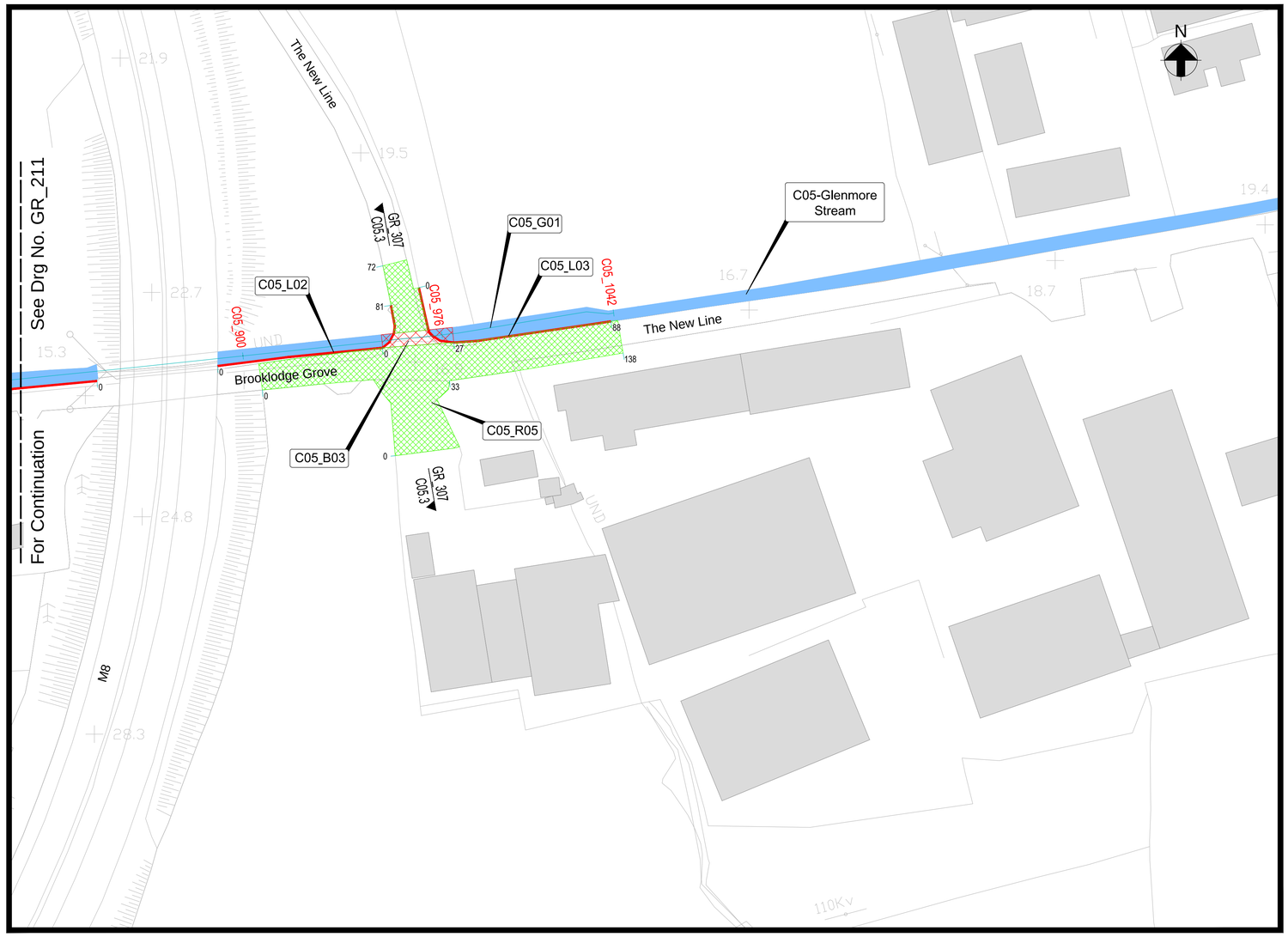
Glashaboy River (Glanmire/Sallybrook) Drainage Scheme

Issued for Exhibition November 2016



Interference Reference	Channel Chainage	Proposed Works Chainage (m)	General Description of Proposed Works
C05_G01	0 to 1042	-	Channel maintenance, as and when necessary over a distance of 1042m from the confluence of the Glenmore Stream and the Butlerstown Stream (C05_000) to chainage 1042 on the Glenmore Stream.
C05_L02	890 to 959	0 to 81	Existing wall to be strengthened. All drainage outfalls to be fitted with non-return valves.
C05_L03	979 to 1039	27 to 88	Proposed reinforced concrete flood defence wall to be constructed to a flood defence level of 17.8mOD (typically 0.3m above existing ground levels). All drainage outfalls to be fitted with non-return valves. Sandstone cladding to the dry side only.
C05_L03	970 to 979	0 to 27	Proposed reinforced concrete flood defence wall to be constructed to a flood defence level of 17.8mOD (typically 0.5m above existing ground levels). All drainage outfalls to be fitted with non-return valves. Sandstone cladding to the dry side only.
C05_B03	953 to 979	0 to 27	Replace existing 4.93m wide by 1.57m high culvert with a new 8.25m wide by 2.58m high rectangular culvert.
C05_R05	944 to 1042	0 to 100	The New Line, Brooklodge Grove and the junction between the two roads to be regraded to facilitate the construction of the proposed replacement culvert.

Notes:
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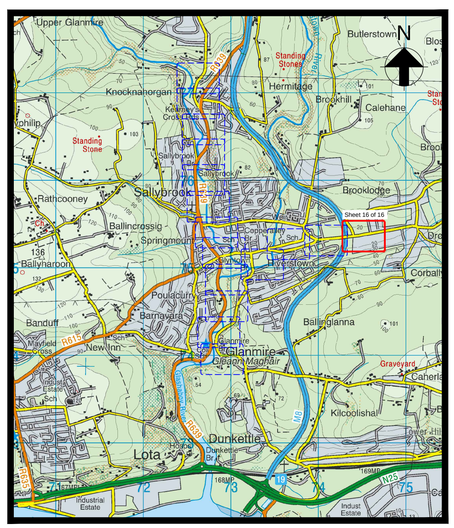
2. Proposed works geometry and extents are subject to detailed design.
3. This drawing should be read in conjunction with all other Glashaboy River (Glanmire/Sallybrook) Drainage Scheme Exhibition Drawings and Schedules.
4. All sections on this drawing are taken looking downstream.

0 5 10 20 50 Metres

Scale 1:1,000 at A1
Scale 1:2,000 at A3

Location Plan



Key Plan

Key to Plan

	Watercourse		Proposed Regrading of Ground Levels
C08_300	Channel Centreline, Reference (C08) and Chainage (300m)		Proposed Flood Defence Wall
PM 1	Photomontage (Location, Orientation and No.)		Proposed Reinforced Concrete Culvert Replacement
C08_B01	Interference Reference		
GR_301 C01.1 GR_301 C01.1	Location and Reference of Cross Section		
50	Proposed Works Chainage (m)		

Drg. No. GR_216 Proposed Flood Defences - Plan Layout (Sheet 16 of 16)

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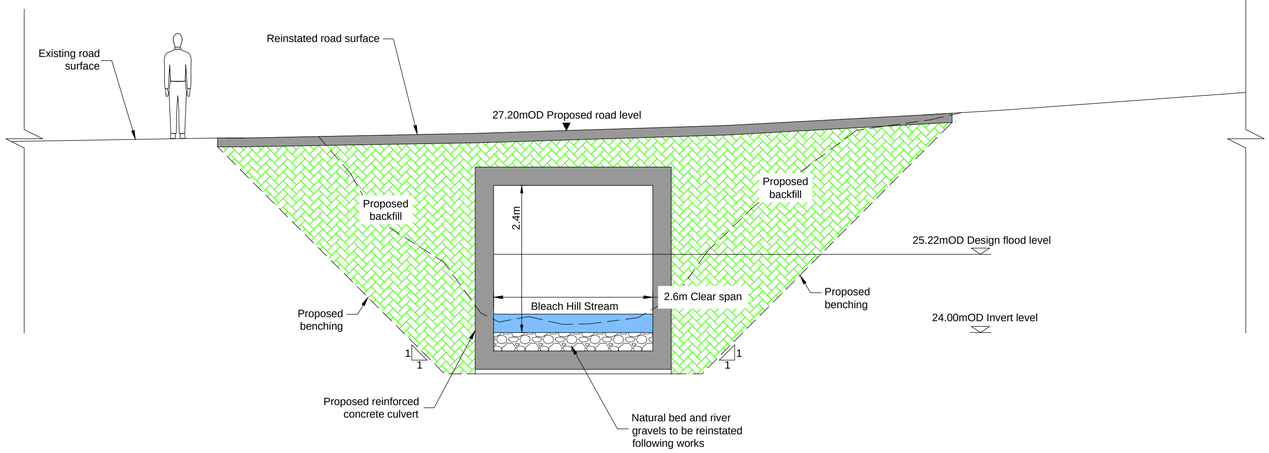
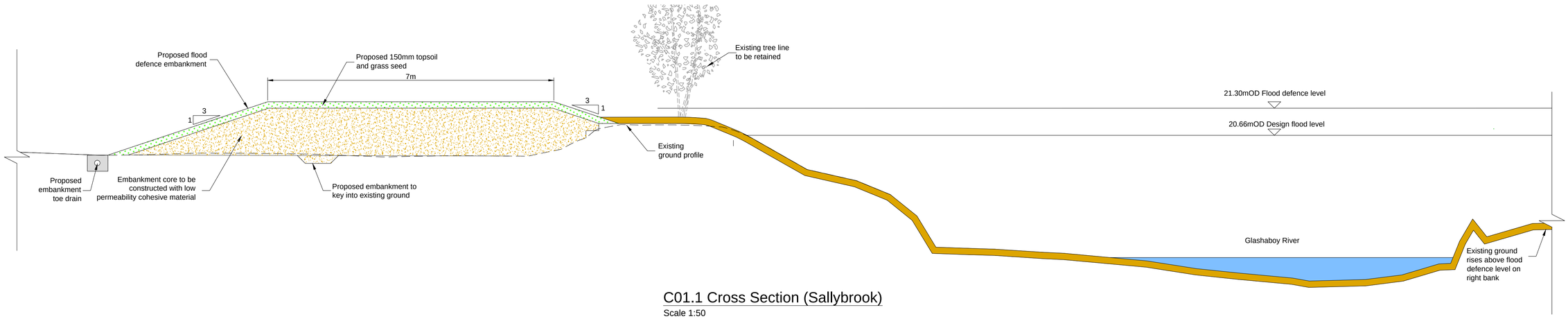


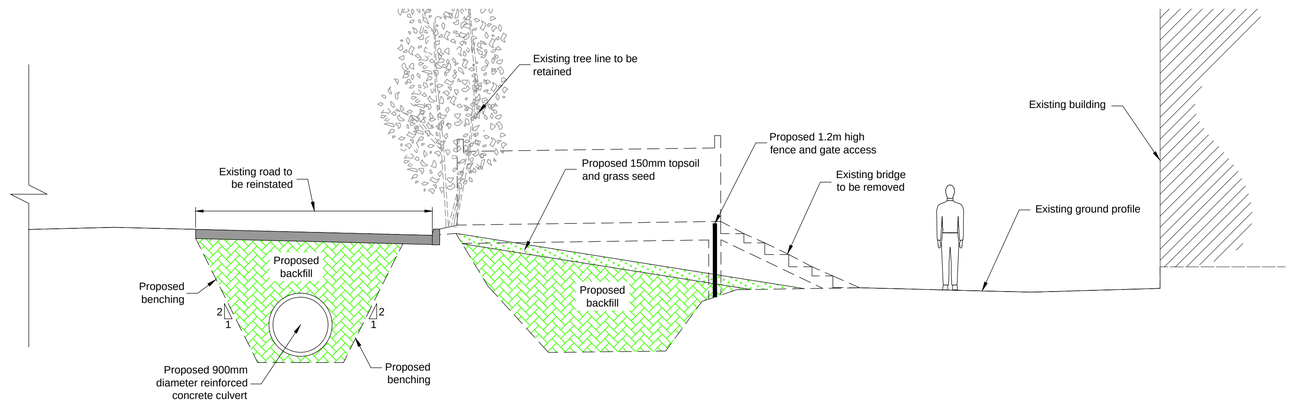
C09.1 Cross Section (Cúil Chluthair)

Scale 1:50



C01.1 Cross Section (Sallybrook)

Scale 1:50



C10.1 Cross Section (Sallybrook House)

Scale 1:50

Notes:

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Drg. No. GR_301 Proposed Sections (Sheet 1 of 8)

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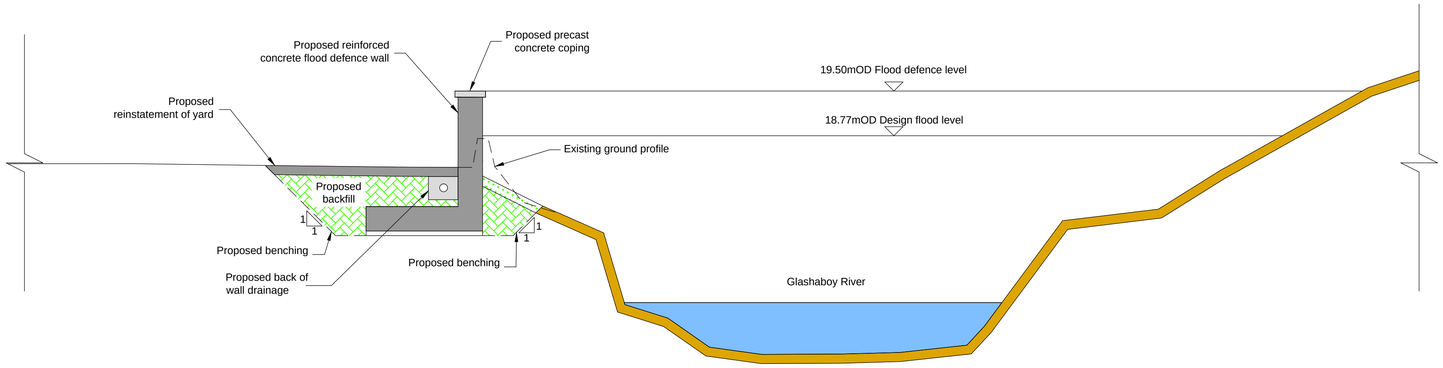
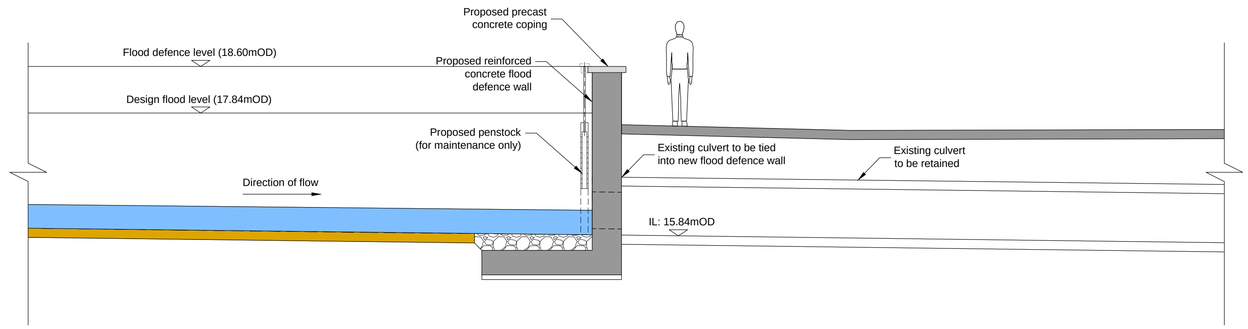


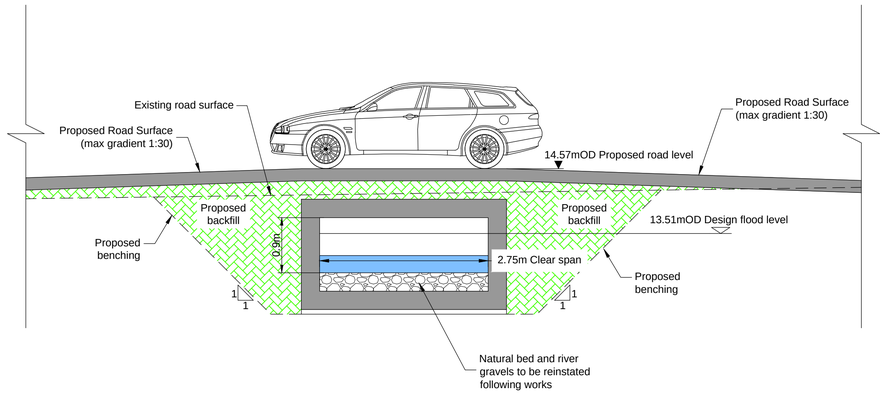
C01.2 Cross Section (Sallybrook)

Scale 1:50



C08.1 Cross Section (Grandon's Car Sales)

Scale 1:50



C07.1 Cross Section (Cois Na Gleann Stream)

Scale 1:50

Notes:

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3. This drawing should be read in conjunction with all other Glashaboy River (Glanmire/Sallybrook) Drainage Scheme Exhibition Drawings and Schedules.

Drg. No. GR_302 Proposed Sections (Sheet 2 of 8)

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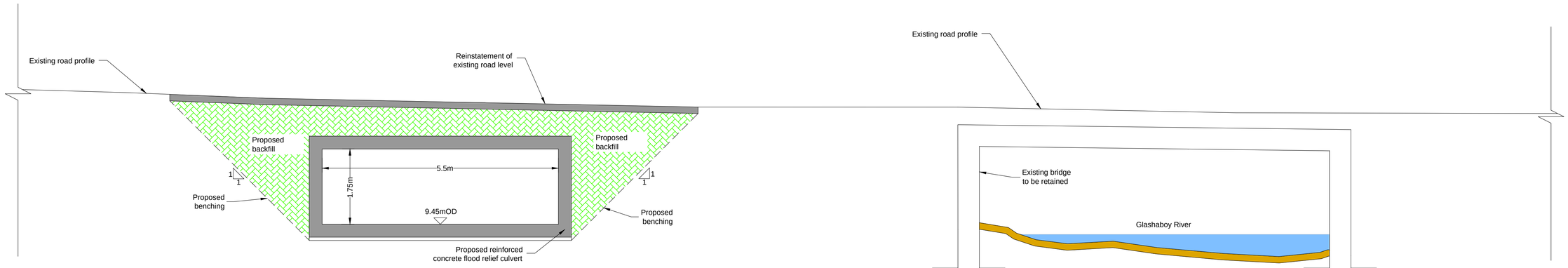
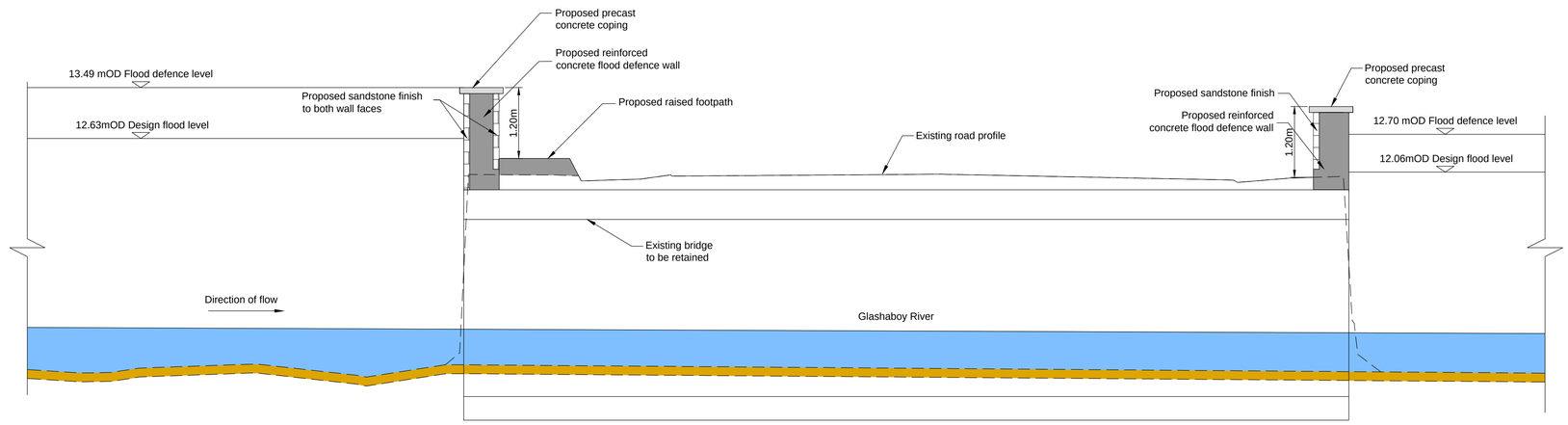


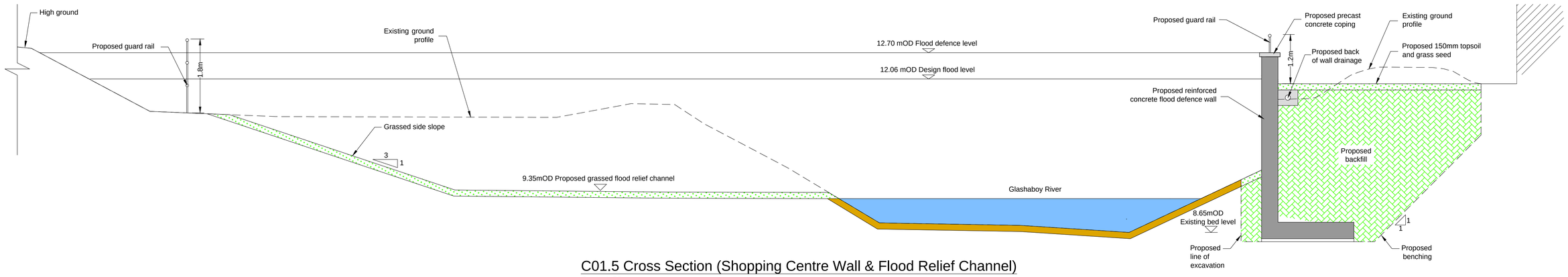
C01.3 Cross Section (Hazelwood Avenue Bridge)

Scale 1:50



C01.4 Cross Section (Hazelwood Avenue Bridge)

Scale 1:50



C01.5 Cross Section (Shopping Centre Wall & Flood Relief Channel)

Scale 1:50

Notes:

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Drg. No. GR_303 Proposed Sections (Sheet 3 of 8)

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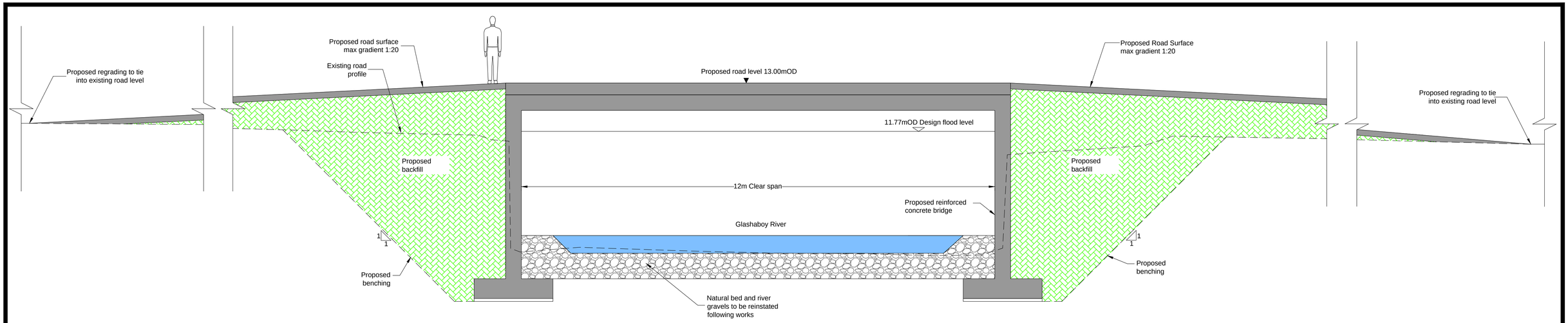
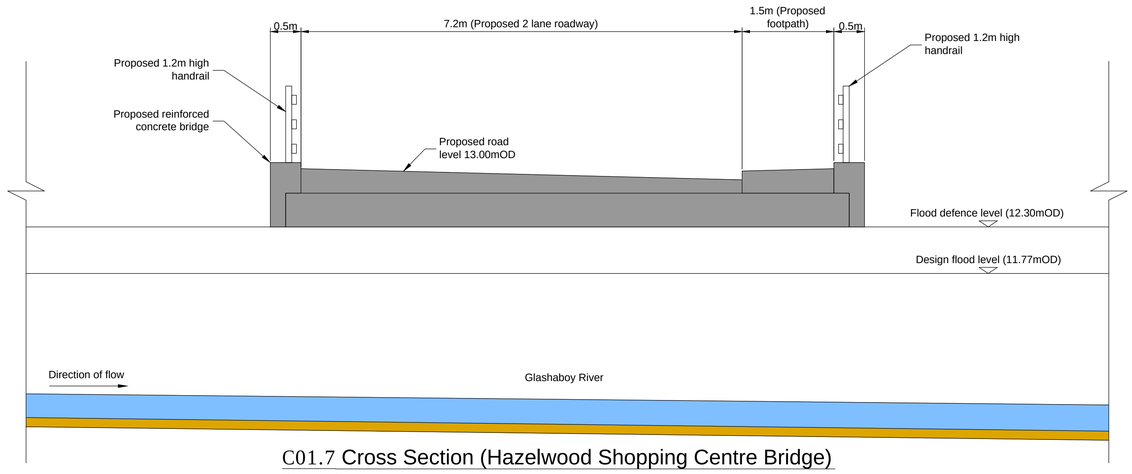


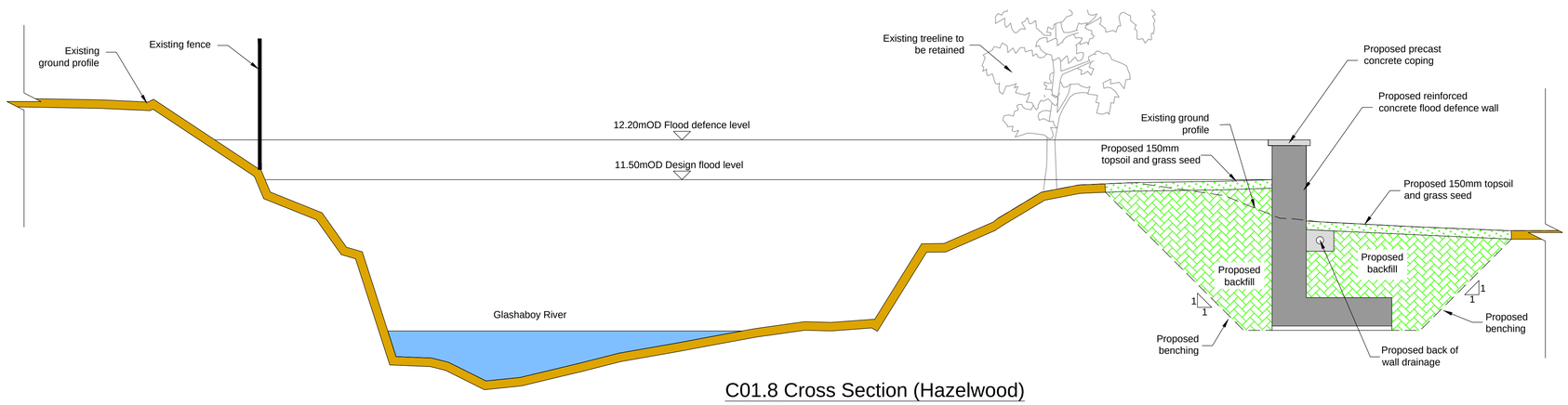
C01.6 Cross Section (Hazelwood Shopping Centre Bridge)

Scale 1:50



C01.7 Cross Section (Hazelwood Shopping Centre Bridge)

Scale 1:50



C01.8 Cross Section (Hazelwood)

Scale 1:50

Notes:

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Drg. No. GR_304 Proposed Sections (Sheet 4 of 8)

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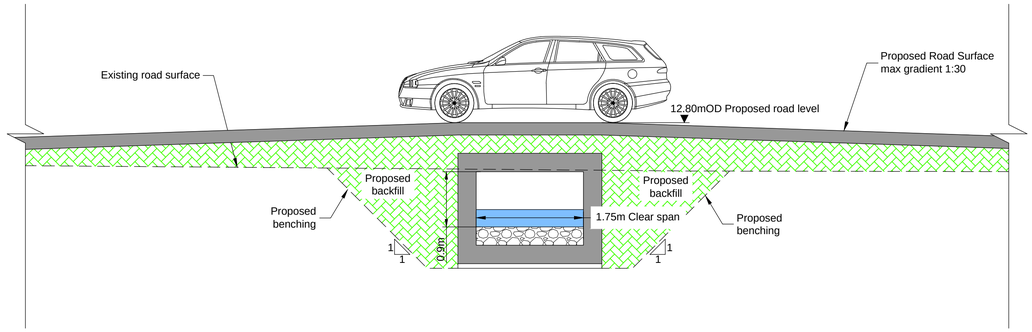
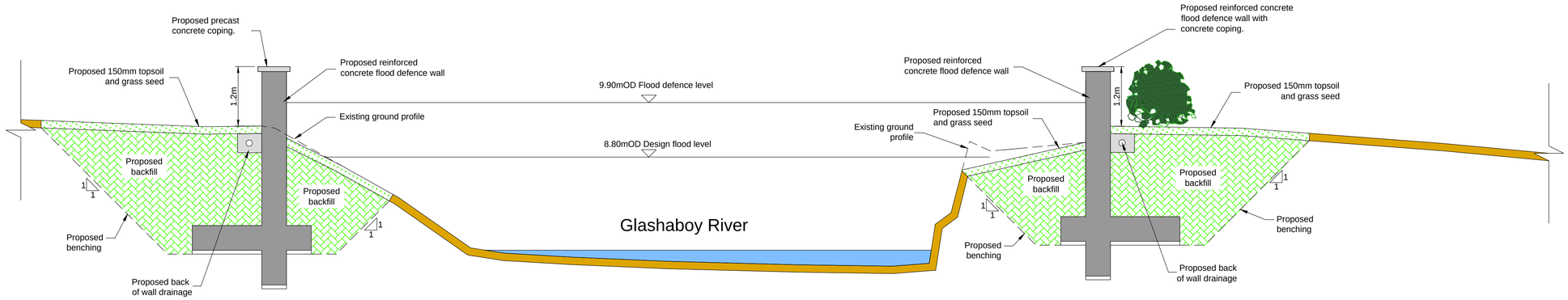


C06.1 Cross Section (R639 at Hazelwood Centre)

Scale 1:50

C01.9 Cross Section (Meadowbrook Estate)

Scale 1:50



C01.10 Cross Section (Meadowbrook)

Scale 1:50

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Drg. No. GR_305 Proposed Sections (Sheet 5 of 8)

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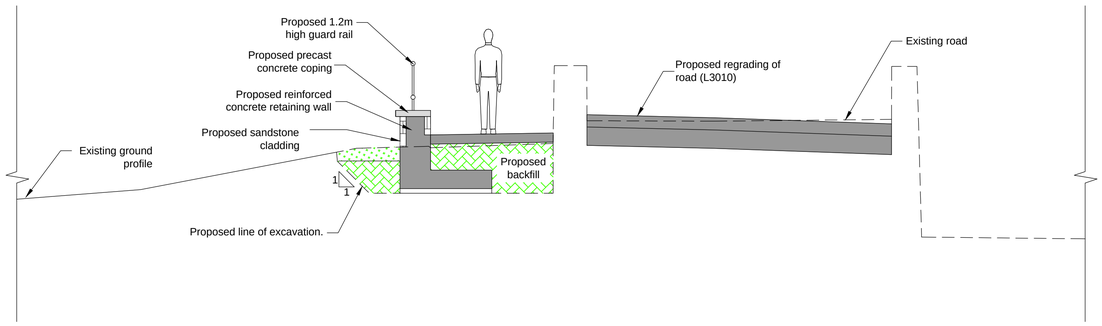
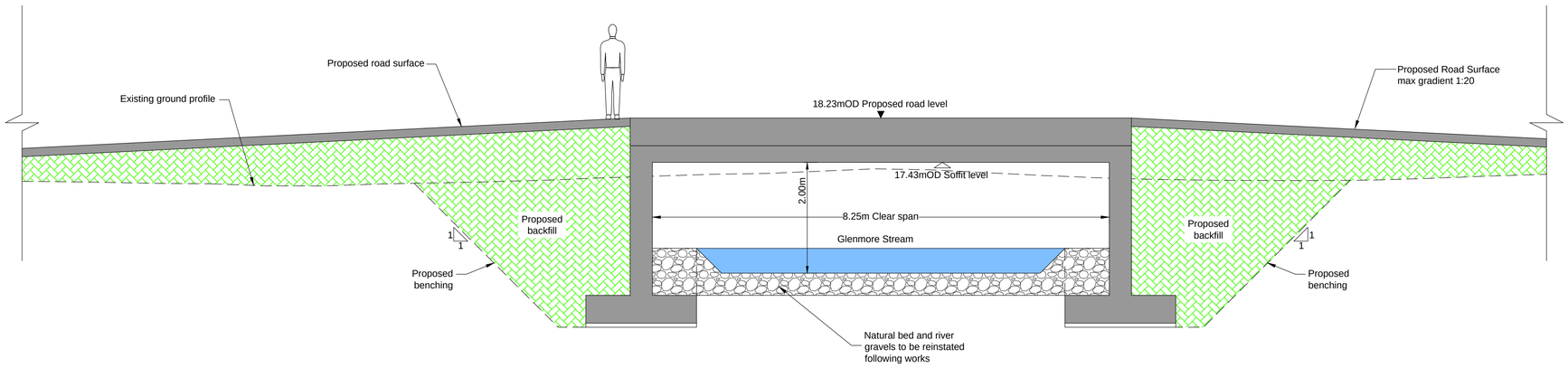
C01.11 Cross Section (Riverstown Bridge)

Scale 1:50



C01.12 Cross Section (Meadowbrook Estate)

Scale 1:50



C05.3 Cross Section (The New Line)

Scale 1:50

Notes:

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3. This drawing should be read in conjunction with all other Glashaboy River (Glanmire/Sallybrook) Drainage Scheme Exhibition Drawings and Schedules.

Drg. No. GR_306 Proposed Sections (Sheet 6 of 8)

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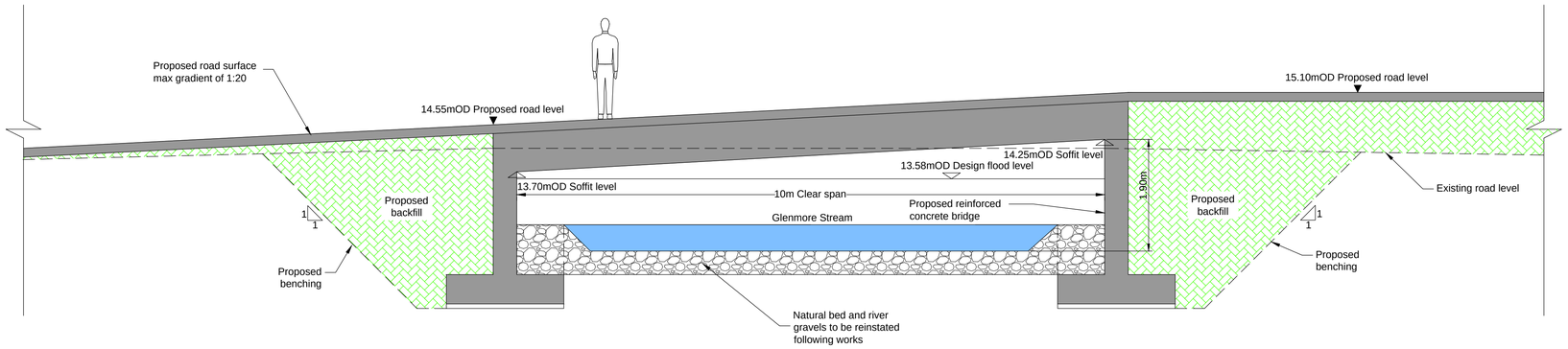
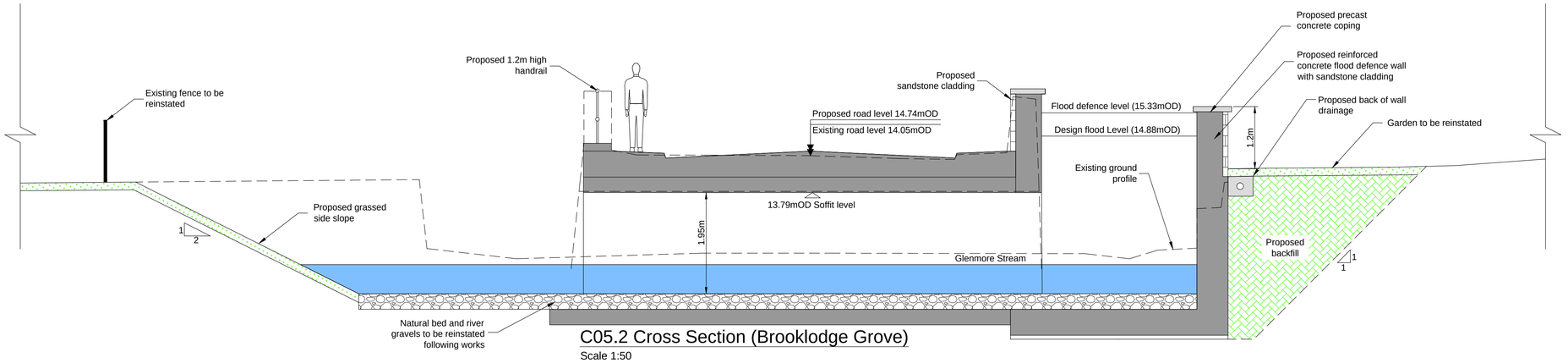


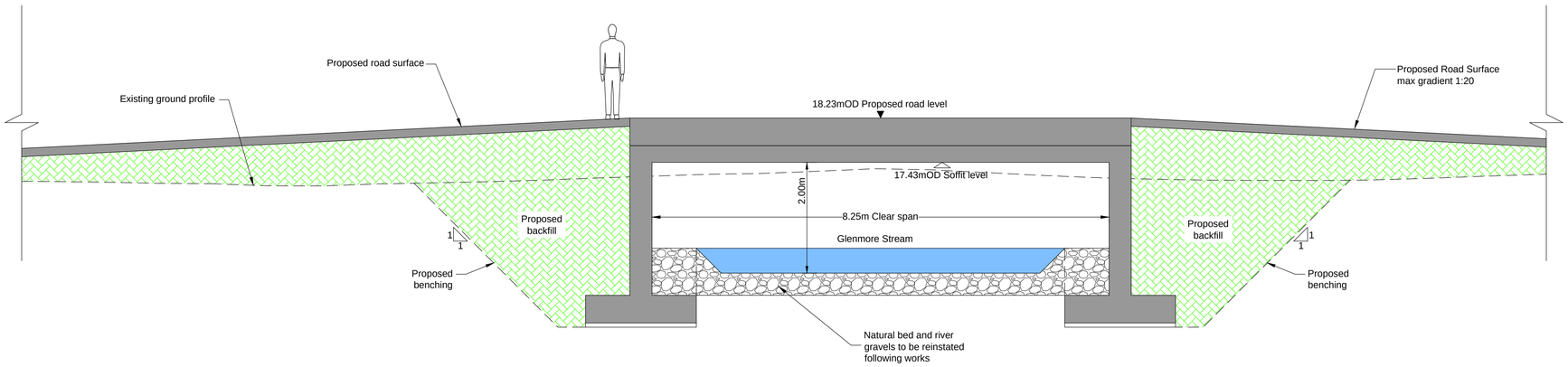
C05.1 Cross Section (Copper Valley Vue)

Scale 1:50



C05.2 Cross Section (Brooklodge Grove)

Scale 1:50



C05.3 Cross Section (The New Line)

Scale 1:50

Notes:

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3. This drawing should be read in conjunction with all other Glashaboy River (Glanmire/Sallybrook) Drainage Scheme Exhibition Drawings and Schedules.

Drg. No. GR_307 Proposed Sections (Sheet 7 of 8)

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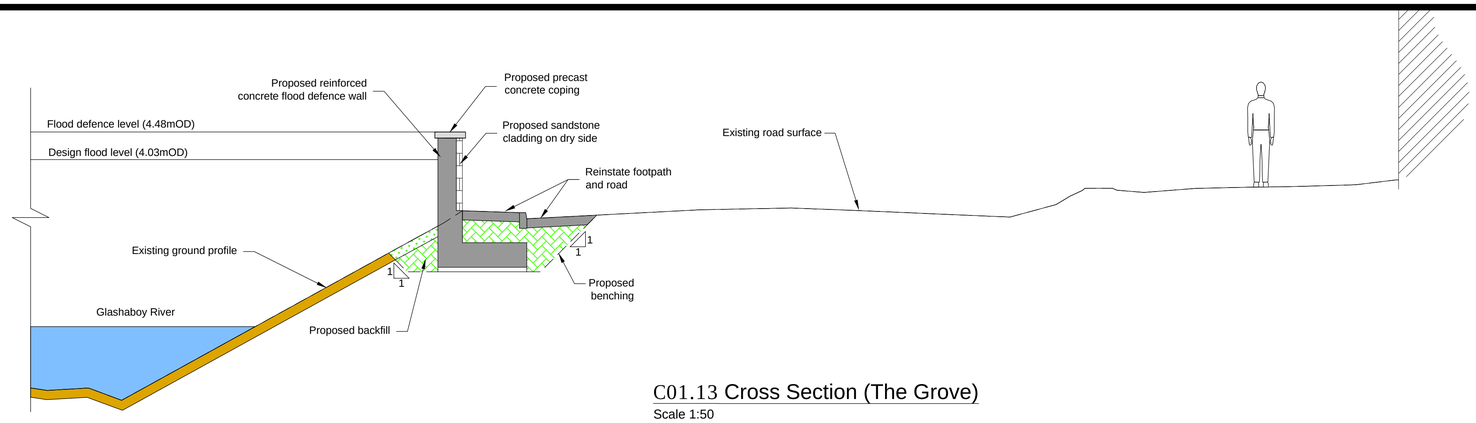

C01.13 Cross Section (The Grove)

Scale 1:50

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Drg. No. GR_308 Proposed Sections (Sheet 8 of 8)

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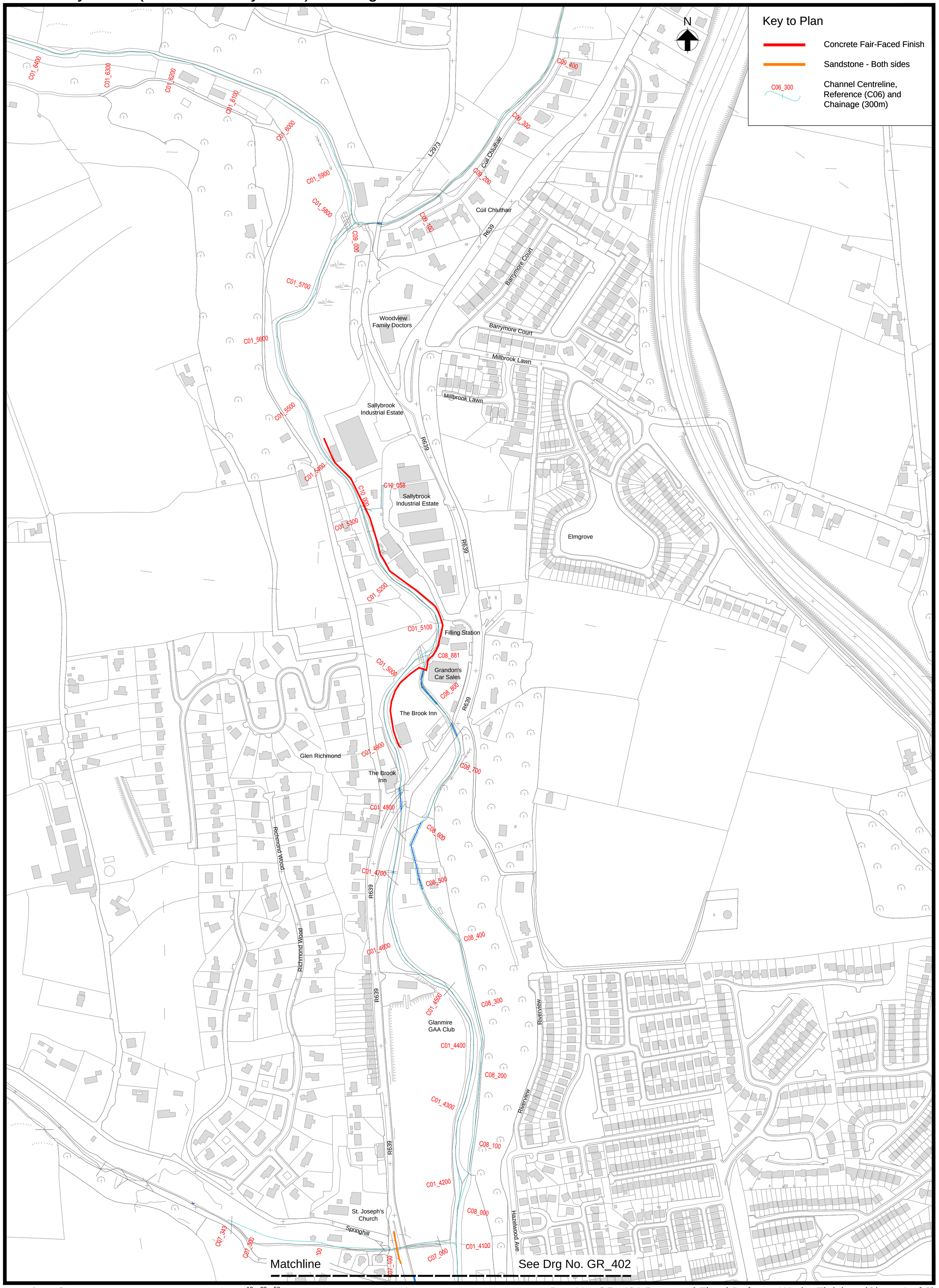
Glashaboy River (Glanmire/Sallybrook) Drainage Scheme

Issued for Exhibition November 2016



Location Plan

0 10 20 30 40 50 100 Metres

Scale 1:2,500 at A1
Scale 1:5,000 at A3

Drg. No. GR_401 Proposed Flood Defence Works Finishes (Sheet 1 of 3)

Notes:
1. Do not scale from drawing.
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Glashaboy River (Glanmire/Sallybrook) Drainage Scheme

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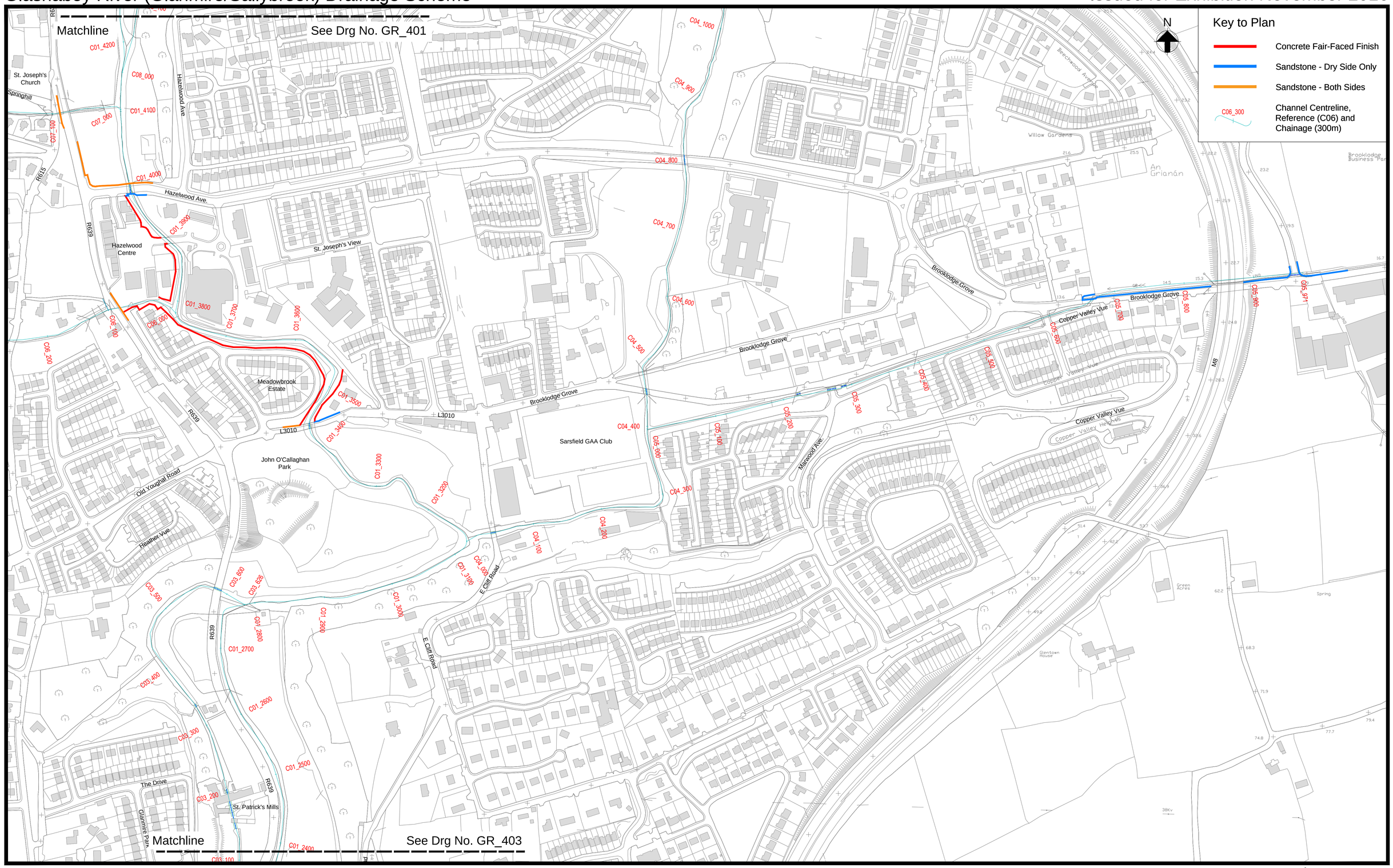

Location Plan

Drg. No. GR_402 Proposed Flood Defence Works Finishes (Sheet 2 of 3)

Scale 1:2,500 at A1
Scale 1:5,000 at A3

Notes:
1. Do not scale from drawing.
2. Proposed works geometry and extents are subject to detailed design.
3. This drawing should be read in conjunction with all other Glashaboy River (Glanmire/Sallybrook) Drainage Scheme Exhibition Drawings and Schedules.

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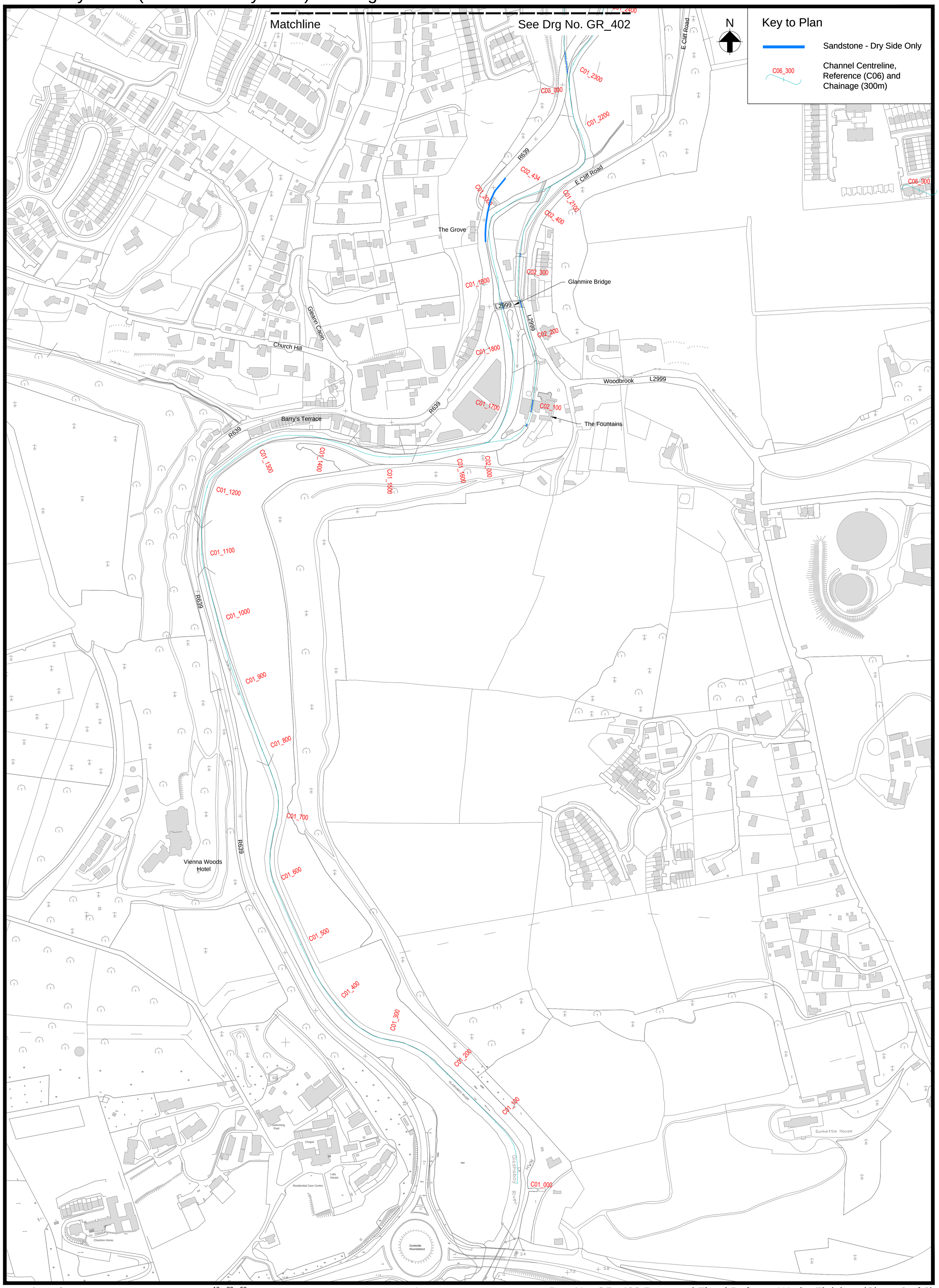

Location Plan

0 10 20 30 40 50 100 Metres

Scale 1:2,500 at A1
Scale 1:5,000 at A3

Drg. No. GR_403 Proposed Flood Defence Works Finishes (Sheet 3 of 3)

Notes:

1. Do not scale from drawing.
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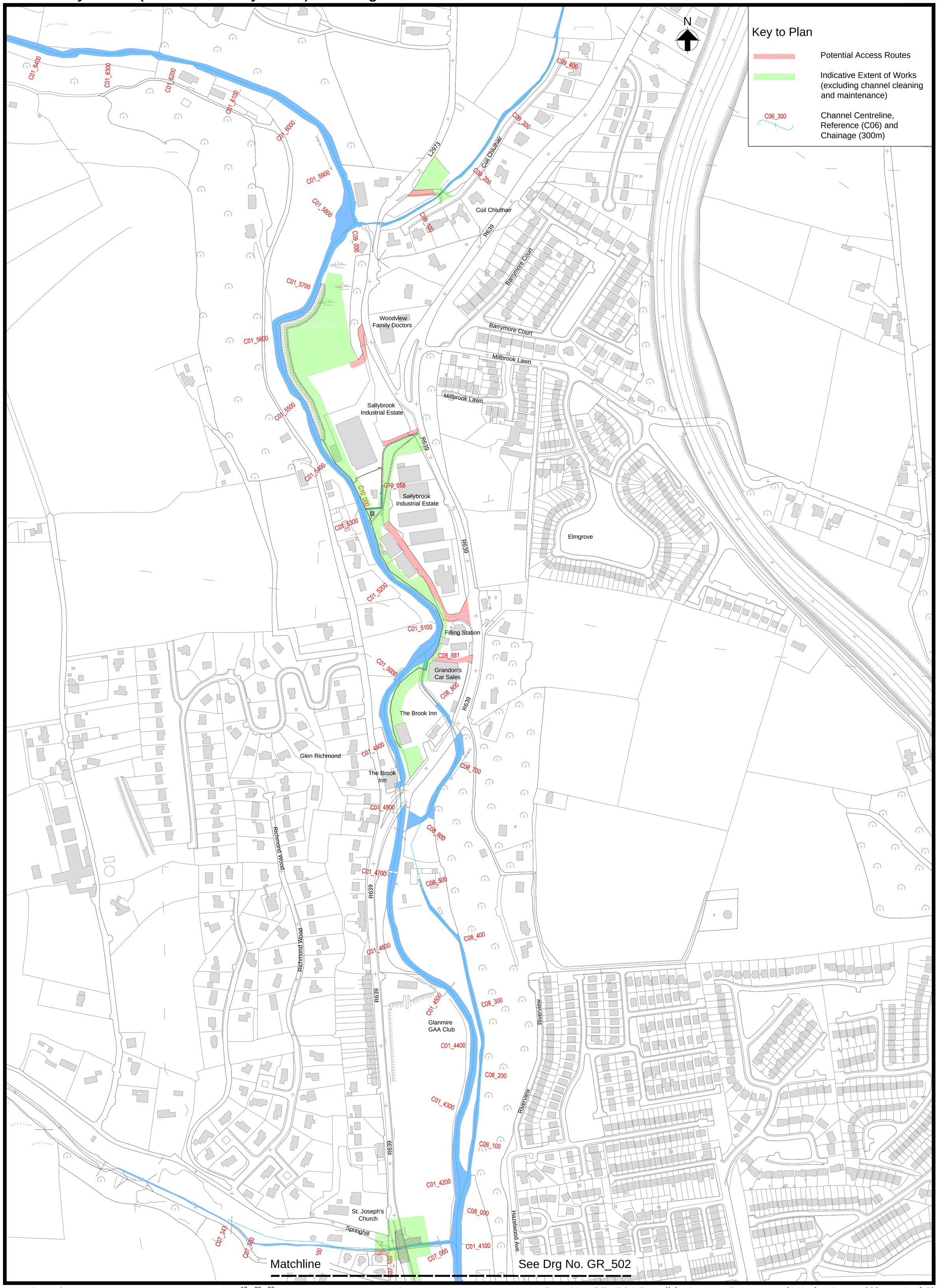
Glashaboy River (Glanmire/Sallybrook) Drainage Scheme

Issued for Exhibition November 2016



Location Plan

0 10 20 30 40 50 100 Metres

Scale 1:2,500 at A1
Scale 1:5,000 at A3

Drg. No. GR_501 Possible Access Routes and Works Areas (Sheet 1 of 3)

Notes:
1. Do not scale from drawing.
2. Proposed works geometry and extents are subject to detailed design.
3. This drawing should be read in conjunction with all other Glashaboy River (Glanmire/Sallybrook) Drainage Scheme Exhibition Drawings and Schedules.

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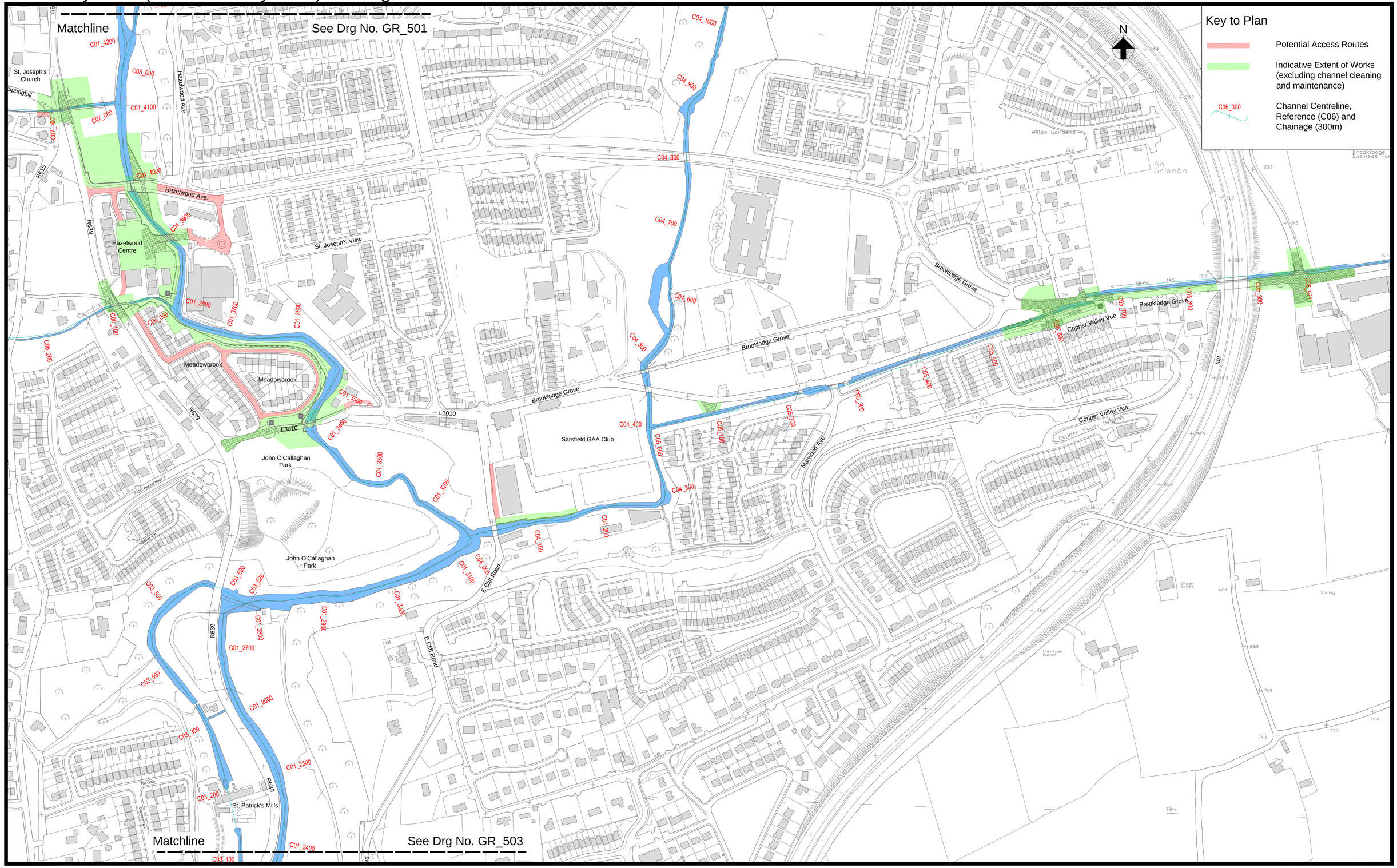

Location Plan

10 30 50
0 20 40 100 Metres

Drg. No. GR_502 Possible Access Routes and Works Areas (Sheet 2 of 3)

Scale 1:2,500 at A1
Scale 1:5,000 at A3

Notes:
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Matchline

See Drg No. GR_502

Key to Plan

Indicative Extent of Works (excluding channel cleaning and maintenance)

C06_300 — Channel Centreline, Reference (C06) and Chainage (300m)

N

C03_100
C01_2300
C03_000
C01_2200
C02_434
C01_2000
C01_2100
C02_400
C02_300
C01_1900
C01_1800
C02_200
C01_1700
C02_100
C01_1300
C01_1400
C01_1500
C01_1600
C02_000
C01_1200
C01_1100
C01_1000
C01_900
C01_800
C01_700
C01_600
C01_500
C01_400
C01_300
C01_200
C01_100
C01_000

R639
E Cliff
E Cliff Road
The Grove
Gleann Caoin
Church Hill
Barryis Terrace
Glanmire Bridge
L2999
Woodbrook
The Fountains
Vienna Woods Hotel
Swimming Pool
Chapel
Lota House
Residential Care Centre
Cheshire Home
Dunkettle Roundabout
Dunkettle House

Location Plan

0 10 20 30 40 50 100 Metres

Scale 1:2,500 at A1
Scale 1:5,000 at A3

Drg. No. GR_503 Possible Access Routes and Works Areas (Sheet 3 of 3)

Notes:
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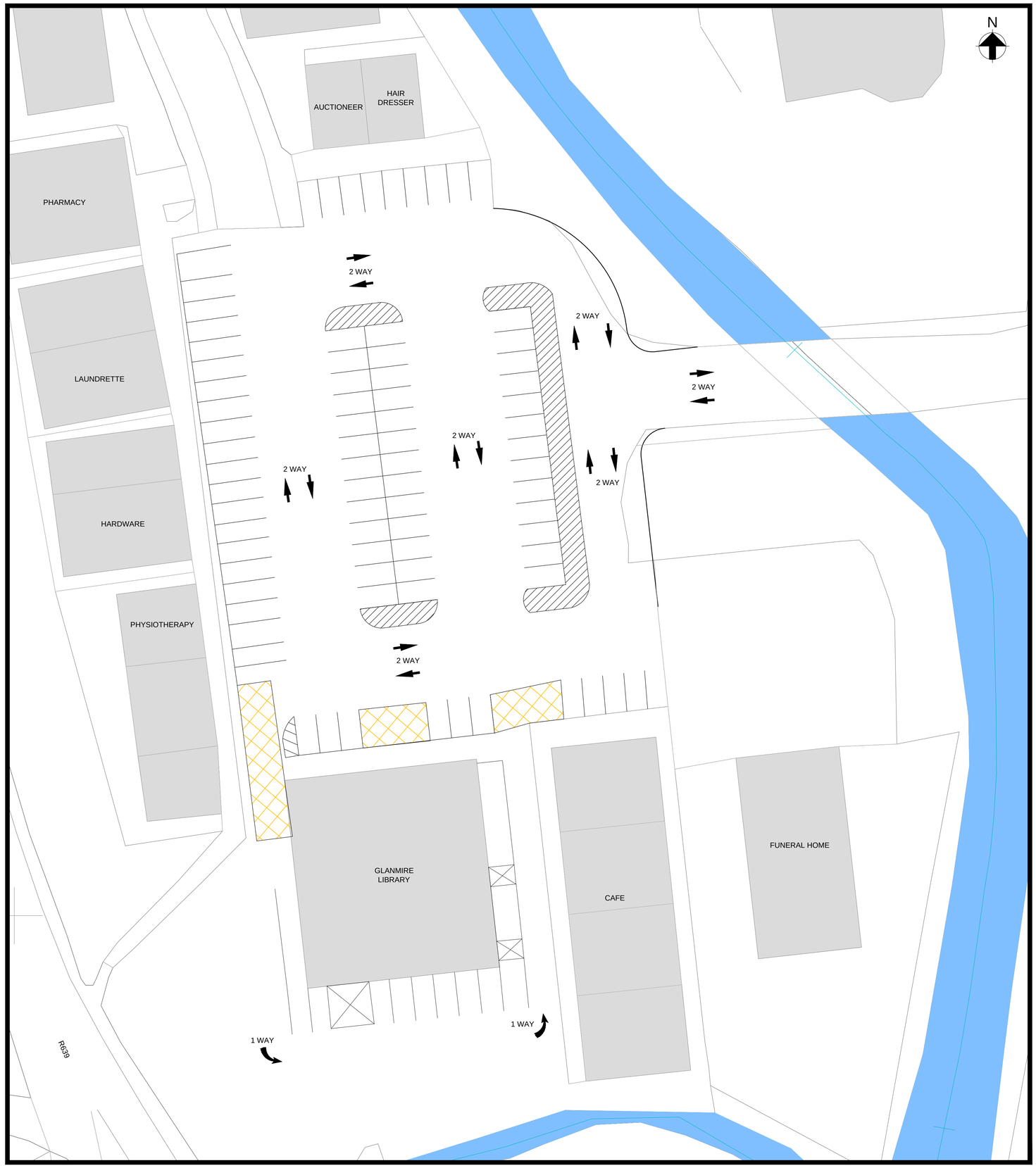
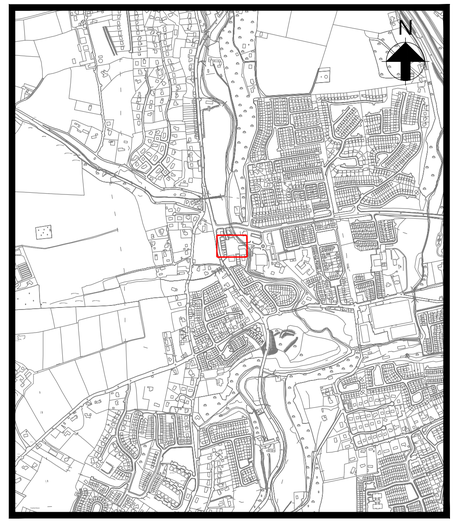


Location Plan



Key Plan

Key to Plan

- Watercourse
- Proposed Island
- Proposed Yellow Box

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Scale 1:250 at A1
Scale 1:500 at A3

SCALE 1 : 250
m 0 0 10m

Drg. No. GR_601 Proposed Flood Defences - Detailed Layout

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