

Location Plan



Key Plan

Scale 1:20,000 at A1 Scale 1:40,000 at A3

Key to Plan



Watercourse

0 5 10

Channel Centreline, Reference (C06) and Chainage (300m) Photomontage (Location, Orientation and N Proposed Flood Defence Wall Interference Reference Location and Reference of Cross Section Proposed Manhole (Surface Water) Proposed Drain (Surface Water) Existing Drain (Surface Water) Proposed Works Chainage (m)

50 Metre

Proposed Maintenance Track

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

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Proposed Winter Channel Proposed Pipe Culvert Proposed Backfill of Existing Watercourse Proposed Regrading of Ground Levels Proposed Pumping Station (Surface Water) Proposed Rising Main (Surface Water)

Proposed Flood Defence Embankment

Provisionally Proposed Geomorphic Features (Riffles)

Provisionally Proposed Sediment Trap (Flood Plain Reprofiling)

Provisionally Proposed Landscaping

Interference Reference	Channel Chainage (m)	Proposed Works Chainage (m)	General Description of Proposed Works
C06_C01a	2077 to 2241	-	Provisionally proposed sediment trap. Proposed flood scalping and lowering on the inside channel bends to create a second stage channel to reduce velocities in lower order floods.
C06_C01b	2124 to 2192	-	Provisionally proposed landscaping to deposition areas to match existing ground.
C06_C01c	2071 to 2192	-	Provisionally proposed geomorphic features, such as riffles, to be constructed within the channel.
C06_E01	-	0 to 105	Proposed flood defence embankment to be constructed 6.80m wide and to a height of typically 0.80m above existing ground levels to flood defence level (21.90mOD). Flood defence embankment to tie into high ground and a proposed flood defence wall as shown on the drawing.
C06_R03a	-	0 to 36	Provisionally proposed access track to provide vehicular maintenance access from the Commons Inn to the sediment trap upstream.
C06_R03b	-	0 to 20	Provisionally proposed vehicle access ramp crest to be at flood defence level (21.90mOD). Proposed ramp to provide vehicular access over the proposed flood defence embankment.
C06_L02	-	0 to 31	Proposed reinforced concrete flood defence wall to be constructed typically 0.45m above existing ground levels to flood defence level (21.72mOD). Proposed defence wall to tie into proposed flood defence embankment. All drainage outfalls to be fitted with non-return valves.
C06_C01	-	0 to 78	Proposed winter channel to be constructed downstream of the Commons Inn in order to increase conveyance during flood events. Winter channel to be a maximum width of 10m wide at mid-section.
C07_B01	-	0 to 38	Proposed 0.90m diameter concrete pipe culvert to be constructed over a length of 38m at the rear of Bride Villas to tie into the existing 0.45m diameter concrete culvert. Existing channel to be backfilled over the proposed culvert over a distance of 38m and reinstated with topsoil and grass. A proposed surface water drain is to be constructed to discharge excess surface water run off to the Fairhill Stream. All drainage outlets to be fitted with non-return valves.
C07_L01	-	0 to 74	Proposed reinforced concrete flood defence wall to be constructed typically 1.20m above existing ground levels to flood defence level (20.01mOD). Proposed flood wall to tie into high ground at the Commons Inn car park and into proposed flood wall CO6_LO3. All drainage outfalls to be fitted with non-return valves, other than the outlet of the proposed 0.90m pipe.
C07_R01		0 to 9	Proposed regrading of existing ground levels at the Commons Inn entrance to divert excess surface runoff to the Fairhill Stream.
C06_L03	-	192 to 244	Proposed reinforced concrete flood defence wall to be constructed typically 0.83m above existing ground levels to flood defence level (20.01mOD). Proposed flood wall to tie into flood wall C07_L01 at the upstream end. All drainage outfalls to be fitted with non-return valves.
C06_L03	-	174 to 192	Proposed reinforced concrete flood defence wall to be constructed typically 1.32m above existing ground levels to flood defence level (19.80mOD). All drainage outfalls to be fitted with non-return valves.
C06_L03	-	119 to 174	Proposed reinforced concrete flood defence wall to be constructed typically 1.20m above existing ground levels to flood defence level (19.58mOD). All drainage outfalls to be fitted with non-return valves.
C06_P01	1685	-	Proposed overflow surface water pumping station and rising main to operate during a flood event at CO6_1685. All outlets to be fitted with non-return valves.
C06_G01	0 to 2623	-	Channel to be maintained over a distance of 2623m from Blackpool Church (C06-000) to upstream face of Rose Cottage (C06_2623).
C07_G01	0 to 108	-	Channel to be maintained over a distance of 108m from the confluence of the River Bride and the Fairhill Stream(C07_000) to the tie in of the existing 450mm diameter pipe culvert and the proposed 900mm diameter pipe culvert (C07_108).

Notes:

1. Do not scale from drawing.

2. Proposed works geometry and extents are subject to detailed design.

Schedules.



Issued for Exhibition November 2015

3. This drawing should be read in conjunction with all other River Bride (Blackpool) Certified Drainage Scheme Exhibition Drawings and





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Location Plan



Key Plan

Scale 1:20,000 at A1 Scale 1:40,000 at A3

Key to Plan



Watercourse

0 5 10 20

Channel Centreline, Reference (C06) Chainage (300m) Photomontage (Location, Orientation

50 Metres

- Proposed Flood Defence Wall
- Repair/Reconstruct Existing Wall
- Interference Reference
- Location and Reference of Cross Secti
- Proposed Works Chainage (m)

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		099151 C06-River Bride C06_L09	For Continuation

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

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Existing Culvert to be Retained

Proposed New Bridge

Proposed Pumping Station (Surface Water)

Proposed Rising Main (Surface Water)

Proposed Backfill of Existing Watercourse

Proposed Pipe Culvert

Proposed Regrading of Ground Levels

Interference Reference	Channel Chainage (m)	Proposed Works Chainage (m)	General Description of Proposed Works
C07_L01		0 to 74	Proposed reinforced concrete flood defence wall to be constructed typically 1.20m above existing ground levels to flood defence level (20.01mOD). Proposed flood wall to tie into high ground at the Commons Inn car park and into proposed flood wall CO6_LO3. All drainage outfalls to be fitted with non-return valves, other than the outlet of the proposed 0.90m pipe.
C06_L03	-	192 to 244	Proposed reinforced concrete flood defence wall to be constructed typically 0.83m above existing ground levels to flood defence level (20.01mOD). Proposed flood wall to tie into flood wall C07_L01 at the upstream end. All drainage outfalls to be fitted with non-return valves.
C06_L03	-	174 to 192	Proposed reinforced concrete flood defence wall to be constructed typically 1.32m above existing ground levels to flood defence level (19.80mOD). All drainage outfalls to be fitted with non-return valves.
C06_L03	-	119 to 174	Proposed reinforced concrete flood defence wall to be constructed typically 1.20m above existing ground levels to flood defence level (19.58mOD). All drainage outfalls to be fitted with non-return valves.
C06_L03	-	43 to 119	Proposed reinforced concrete flood defence wall to be constructed typically 1.20m above existing ground levels to flood defence level (19.50mOD). All drainage outfalls to be fitted with non-return valves.
C06_L03	-	0 to 43	Proposed reinforced concrete flood defence wall to be constructed typically 1.00m above existing ground levels to flood defence level (19.30mOD). Flood wall to tie into existing bridge parapet. All drainage outfalls to be fitted with non-return valves.
C06_P01	1685	-	Proposed overflow surface water pumping station and rising main to operate during a flood event at CO6_1685. All outlets to be fitted with non-return valves.
C06_L03a	-	0 to 9	Proposed new reinforced concrete bridge parapet to be constructed typically 0.55m above existing bridge deck level to flood defence level (19.30mOD). All drainage outfalls to be fitted with non-return valves.
C06_C02	-	-	Not used.
C06_P02	1414	-	Proposed overflow surface water pumping station and rising main to be constructed on existing surface water drainage network at C06_1414. Pump to operate during a flood event. All outlets to be fitted with non-return valves.
C06_B01	-	0 to 9	Replace existing masonry bridge with a new reinforced concrete bridge. Bridge to be of 7.40m clear span and 9.00m wide deck. Construct new access ramps to bridge, incorporating new reinforced concrete retaining walls where necessary.
C06_L04	-	0 to 81	Existing river wall to be raised to a height typically 0.59m above existing ground levels to flood defence level (17.51mOD). The proposal to raise the existing river wall is subject to structural assessment. All drainage outfalls to be fitted with non-return valves.
C06_L05	-	0 to 76	Existing river wall to be raised to a height typically 0.56m above existing ground levels to flood defence level (17.51mOD). The proposal to raise the existing river wall is subject to structural assessment. All drainage outfalls to be fitted with non-return valves.
C06_L06	-	0 to 9	Existing bridge parapet to be raised to a height 0.57m above existing ground levels to flood defence level (17.51mOD). The proposal to raise the existing bridge parapet is subject to structural assessment. All drainage outfalls to be fitted with non-return valves.
C06_L07	-	0 to 9	Formalise and repair existing bridge parapet to flood defence level (17.03mOD), where necessary.
C06_L08	-	75 to 153	Existing river wall to be raised to a height typically 0.45m above existing ground levels to flood defence level (17.03mOD). The proposal to raise the existing wall is subject to structural assessment. All drainage outfalls to be fitted with non-return valves.
C06_L09	-	75 to 151	Existing river wall to be raised to a height typically 0.35m above existing ground levels to flood defence level (17.03mOD). The proposal to raise the existing wall is subject to structural assessment. All drainage outfalls to be fitted with non-return valves.
C06_G01	0 to 2623	-	Channel to be maintained over a distance of 2623m from Blackpool Church (C06-000) to upstream of Rose Cottage (C06-2623).
C07_G01	0 to 108	-	Channel to be maintained over a distance of 108m from the confluence of the River Bride and the Fairhill Stream(C07_000) to the tie in of the existing 450mm diameter pipe culvert and the proposed 900mm diameter pipe culvert (C07_108).

Notes:

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 Proposed works geometry and extents are subject to detailed design.
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Drg. No. RB_204 Proposed Flood Defences - Plan Layout (Sheet 4 of 10)



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Location Plan



Key Plan

Scale 1:20,000 at A1 Scale 1:40,000 at A3

Key to Plan

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C06_300	Channel Centreline, Reference (C06) and Chainage (m)
← ← PM 01	Photomontage (Location, Orientation and No.)
	Proposed Flood Defence Wall
	Reconstruct/Repair Existing Wall
	Proposed Retaining Wall
C06_L01	Interference Reference
303 RB_303 006.9 C06.9	Location and Reference of Cross Section
	Proposed Manhole (Surface Water)
	Proposed Drain (Surface Water)
P	Proposed Pumping Station (Surface Water)

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Notes:

Do not scale from drawing.

Proposed works geometry and extents are subject to detailed design. 2.

Proposed Rising Main (Surface Water)

0 5 10 20

3. Schedules. Scale 1:1,000 at A1 Scale 1:2,000 at A3

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Existing Culvert to be Retained
Proposed Regrading of Ground Levels
Proposed Sediment Trap
Watercourse
Proposed Open Channel
Proposed Backfill of Existing Watercourse
Proposed Flood Defence Embankment
Proposed New Bridge
Proposed Works Chainage (m)
Proposed Road and Footpath

Proposed Vehicle Access Gate

Interference Reference	Channel Chainage (m)	Proposed Works Chainage (m)	General Description of Pr
C06_L08	-	19 to 75	Existing river wall to be ra defence level (16.80mOD All drainage outfalls to be
C06_L09	-	19 to 75	Existing river wall to be ra defence level (16.80mOD All drainage outfalls to be
C06_L08	-	0 to 19	Existing river wall to be ra defence level (16.58mOD All drainage outfalls to be
C06_L09	-	0 to 19	Existing river wall to be ra defence level (16.58mOD All drainage outfalls to be
C06_L10	-	0 to 9	Existing bridge parapet wa flood defence level (16.58 assessment. All drainage
C06_P03	1200	-	Proposed surface water o operate during a flood ev
C06_L11	-	0 to 9	Formalise and repair exist necessary.
C06_L12	-	56 to 170	Proposed new wall to be above existing ground lev wall is subject to structura
C06_L13	-	59 to 155	Formalise and repair exist outfalls to be fitted with r
C06_L13	-	0 to 59	Formalise and repair exist outfalls to be fitted with r
C06_L12	-	0 to 56	Proposed reinforced conc existing ground levels to f non-return valves.
C06_L12a	-	0 to 66	Proposed perimeter toe s
C06_P04	1031	-	Proposed surface water o operate during a flood ev
C06_C03	1018 to 1081	-	Proposed sediment trap t from CO6_1041 to CO6_10 sheet piles to retain sedin
C06_G02	1074	-	Remove existing pedestria
C06_R02	-	0 to 202	Proposed new access road level (15.31mOD) betwee
C06_C04	915 to 1015	-	Removal of the existing Su long x 8.5m wide from CO
C06_L14	-	39 to 139	Proposed reinforced conc existing ground levels to f outfalls to be fitted with r
C06_L14	-	0 to 39	Proposed reinforced conc existing ground levels to f non-return valves.
C06_L15	-	0 to 45	Proposed reinforced conc existing ground levels to f sealed up. All drainage ou
C06_L15	-	45 to 144	Proposed reinforced conc ground levels to flood def be fitted with non-return
C06_L16	-	0 to 10	Proposed bridge parapet defence level (15.12mOD concrete retaining walls v
C06_B02	-	0 to 20	Replace existing concrete span and 20m wide deck. bridge, incorporating new
C06_E02	-	0 to 115	Proposed flood defence e above existing ground lev into high ground downstr defence wall at Blackpool
C06_T02	750	-	Proposed trash screen to
C06_R03	-	-	Existing ground to be regr into the park to flood defe
C06_B02a	741	-	Existing pedestrian footbr
C06_L17	-	0 to 212	Proposed reinforced conc existing ground levels to f non-return valves.
C06_G01	0 to 2623	-	Channel to be maintained Rose Cottage (C06-2623).

Drg. No. RB_205 Proposed Flood Defences - Plan Layout (Sheet 5 of 10)



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ption of Proposed Works

all to be raised to a height typically 0.65m above existing ground levels to flood 16.80mOD). The proposal to raise the existing wall is subject to structural assessment. tfalls to be fitted with non-return valves.

all to be raised to a height typically 0.45m above existing ground levels to flood 16.80mOD). The proposal to raise the existing wall is subject to structural assessment. falls to be fitted with non-return valves.

all to be raised to a height typically 0.94m above existing ground levels to flood L6.58mOD). The proposal to raise the existing wall is subject to structural assessment. tfalls to be fitted with non-return valves.

all to be raised to a height typically 0.68m above existing ground levels to flood 16.58mOD). The proposal to raise the existing wall is subject to structural assessment falls to be fitted with non-return valves.

parapet wall to be raised to a height typically 0.73m above existing ground levels to evel (16.58mOD). The proposal to raise the existing wall is subject to structural I drainage outfalls to be fitted with non-return valves.

ce water overflow pump station, collector drain, overflow manhole and rising main to a flood event at C06 1200. All outlets to be fitted with non-return valves.

epair existing bridge parapet wall to flood defence level (16.03mOD), where

wall to be constructed and existing river wall to be raised to a height typically 1.27m ground levels to flood defence level (16.03mOD). The proposal to raise the existing o structural assessment. All drainage outfalls to be fitted with non-return valves. epair existing wall to flood defence level (16.03mOD), where necessary. All drainage ted with non-return valves.

repair existing wall to flood defence level (15.65mOD), where necessary. All drainage tted with non-return valves.

prced concrete flood defence wall to be constructed to a height typically 0.88m above l levels to flood defence level (15.65mOD). All drainage outfalls to be fitted with

neter toe sheet piles to retain access to the proposed sediment trap.

ce water overflow pump station, collector drain, overflow manhole and rising main to a flood event at C06 1031. All outlets to be fitted with non-return valves.

nent trap to be 63m long and 25m wide with maintenance access platform and ramp to C06_1081. Rock weirs to be constructed at 20m centres. Proposed perimeter toe etain sediment basin.

pedestrian bridge and weir structure at CO6 1074.

access road and footpath 202m long x 9m wide. Locally raise road to flood defence D) between chainage 115 and 140m.

existing Sunbeam culvert and replace with new re-aligned walled open channel 100m le from C06_915 to C06_1015.

orced concrete flood defence wall to be constructed to a height typically 0.93m above levels to flood defence level (15.31mOD) to form a new open channel. All drainage tted with non-return valves.

prced concrete flood defence wall to be constructed to a height typically 0.71m above l levels to flood defence level (15.12mOD). All drainage outfalls to be fitted with

prced concrete flood defence wall to be constructed to a height typically 0.31m above levels to flood defence level (15.12mOD). Existing culvert connection and weir to be rainage outfalls to be fitted with non-return valves.

orced concrete flood wall to be constructed to a height typically 0.50m above existing flood defence level (15.31mOD) to form a new open channel. All drainage outfalls to on-return valves.

parapet to be raised to a height typically 0.34m above existing ground levels to flood L5.12mOD). Construct new access ramps to bridge, incorporating new reinforced ing walls where necessary. All drainage outfalls to be fitted with non-return valves.

concrete bridge with a new reinforced concrete bridge. Bridge to be of 10.50m clear wide deck. Soffit level of new bridge to be 14.85mOD.Construct new access ramps to rating new reinforced concrete retaining walls where necessary.

defence embankment to be constructed typically 12m wide and to a height of 1.15m ground levels to flood defence level (14.65mOD). Flood defence embankment to tie d downstream of Sunbeam Industrial Estate bridge and into the proposed flood Blackpool Retail Park.

screen to be constructed adjacent to Blackpool Retail Park.

l to be regraded to provide pedestrian access over the proposed flood embankment flood defence level (14.65mOD). Ramp to be graded at a maximum slope of 1:20. ian footbridge to removed.

prced concrete flood defence wall to be constructed to a height typically 1.53m above levels to flood defence level (14.65mOD). All drainage outfalls to be fitted with

naintained over a distance of 2623m from Blackpool Church (C06-000) to upstream of

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OPW



Location Plan



Keyplan

Scale 1:20,000 at A1 Scale 1:40,000 at A3

Key to Plan



Channel Centrelines, Reference (C06 Chainage (m)

50 Metre

- Photomontage (Location, Orientation
- Proposed Flood Defence Wall
- Interference Reference

0 5 10 20

- Location and Reference of Cross Section
- Proposed Backfill of Existing Watercourse
- Proposed Flood Defence Embankment

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

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Interference Reference	Channel Chainage (m)	Proposed Works Chainage (m)	Ge
C06_R03	-	-	Exi de ⁻ gra
C06_L17	-	0 to 212	Pro 1.5 ou ⁻
C06_B02b	629	-	Exi
C06_L18	-	0 to 45	Pro 1.5 ou sur flo
C06_B03	-	0 to 342	Re do int no
C06_G01	0 to 2623	-	Ch up:

Notes:

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Existing Culvert to be Retained
Proposed Regrading of Ground Levels
Watercourse
Proposed Open channel
Proposed Reinforced Concrete Culvert
Proposed Works Chainage (m)

Proposed Sump Manhole (Surface Water)

Drg. No. RB_206 Proposed Flood Defences - Plan Layout (Sheet 6 of 10)



eneral Description of New Works

kisting ground to be regraded to provide pedestrian access over the proposed flood efence embankment into the park to flood defence level (14.65mOD). Ramp to be raded at a maximum slope of 1:20.

roposed reinforced concrete flood defence wall to be constructed to a height typically 53m above existing ground levels to flood defence level (14.65mOD). All drainage utfalls to be fitted with non-return valves.

kisting pedestrian footbridge to be removed.

roposed reinforced concrete flood defence wall to be constructed to a height typically 53m above existing ground levels to flood defence level (13.80mOD). All drainage utfalls to be fitted with non-return valves. Works to include construction of a new urface water sump manhole with associated local collector drain adjacent to the new ood defence wall.

eplace existing channel with a proposed reinforced concrete culvert to be constructed ownstream of Blackpool Bypass through Orchard Court. Proposed culvert to be of ternal dimension 5.5m wide and 2.1m high. All drainage outfalls to be fitted with on-return valves.

hannel to be maintained over a distance of 2623m from Blackpool Church (C06-000) to ostream of Rose Cottage (C06-2623).



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