

SAFETY, HEALTH AND ENVIRONMENT

IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORKS DETAILED ON THIS DRAWING, NOTE THE FOLLOWING SIGNIFICANT RESIDUAL RISKS:

ENVIRONMENTAL

1. Works are to be checked for ground nesting birds;
2. Works not to start until after March unless a qualified person has checked for trout redds and found none.

Services onsite:

1. BT OpenReach.

CONSTRUCTION

1. Risk of injury/death to public inappropriately accessing the site;
2. Working near/in/over water;
3. Existing traffic systems on and adjacent to the site (road, public rights of way);
4. Risk of hitting known or unknown underground utilities;
5. Risk of collision by plant with overhead utilities;
6. Manual handling;
7. Lifting & crushing risks.

MAINTENANCE/CLEANING/ OPERATION

1. Risk of injury/death to public inappropriately accessing the site;
2. Working near/in/over water;
3. Existing traffic systems on and adjacent to the site (road, public rights of way);
4. Manual handling.

DECOMMISSIONING/DEMOLITION

1. Risk of injury/death to public inappropriately accessing the site;
2. Working near/in/over water;
3. Existing traffic systems on and adjacent to the site (road, public rights of way);
4. Manual handling.

Specifications for Works

1. Site won soil from regraded areas to be used to fill berms - 11.1 cubic metres / 20.4 tonnes required for this site.
2. 2.5mm heavy duty steel wire.
3. ~ 300 mm diameter wood bundles to be used for brush & gravel berm fronts, to be staked in place with 1.8 x 0.075 m chestnut posts; 43 m length required for this site.
4. 1 x 1.5 m 300 - 500 mm diameter woody deflector, to be pinned in place with 1.8 x 0.075 m chestnut posts.
5. Total volume of flinty riffle gravel at this site is 3.0 cubic meters / 6.1 tonnes - to be imported, ideally from local source / within catchment.
6. Contractor to manage volumes.
7. Excess spoil to be spread on allocated area, outside of flood plain, in Barn Meadow Recreation Ground (88 cubic metres / 162 tonnes in total expected from both sites).



Narrow access down residential road with on-street parking - potential for period of parking exclusion to be discussed with local & county councils.

Backwater base set to 91.11 m AOD. Banks with 1:3 slope set to 91.99 m AOD. Total excavation of 70 m³. Banks to be plug-planted.

Earth berms constructed to depth of 0.2 m (approximate mean flow height) and fronted with brushwood. Introduces sinuosity with minimum open channel of 2.5 m retained at berm top. All berms to be plug-planted and hydro-seeded.

Interior bollards to be removed and track mats placed either side (not over bollard housing), including up curb, to prevent damage.

Backwater base set to 91.1 m AOD. Banks with 1:3 slope set to 91.7 m AOD. Total excavation of 20 m³. Banks to be plug-planted.

High St drainage outlet near Almshouses kept clear with berm opposite to speed up flow.

Deflector pinned in place (solid revetment not suitable for embedding).

Existing silt and vegetation in channel redistributed and secured with a brushwood edge to create sinuosity.

Gravel augmentation at regular intervals to refresh habitat and diversify bed form; riffles created by graduating depth of gravel as shown in figure 1. Maximum depth of gravel not to exceed 0.2 m.

Hand-dug low flow channel, no more than 2.5 m wide and 0.2 m deep. Bed material to be redistributed by hand to the side of the channel - to a maximum change in depth of 200 mm - to both create a consistent incline between cross-sections 15 and 19 and to offset reduction in flow conveyance from berms etc. Dimensions of low-flow channel to match adjacent berms, where applicable. Expected volume of redistributed gravels is 25 cubic metres / 51.5 tonnes.

Key:

- River Misbourne
- Trees
- Private bridges
- Movable street furniture (bin/ bench/ bollard)
- Immovable street furniture
- Drainage outfall
- Access
- Floodzone 3
- Floodzone 2
- Proposed brushwood berm
- Proposed gravel riffle
- Proposed back-water cell wall
- Proposed wooden flow deflector

Utilities:

- Cadent Gas medium pressure mains
- Cadent Gas low pressure mains
- BT Openreach
- Thames water foul sewer line
- Thames water surface water sewer line
- UKPN LV
- UKPN Underground
- Affinity water distribution main

General notes:

1. All dimensions shown are in metres, unless otherwise stated, to ordnance datum;
2. All excavations to avoid root protection zones;
3. All woody deflectors in channel to be 300-500mm diameter, unless stated otherwise. All secured with log posts and 2mm galvanised wire;
4. Riffles created from locally sourced flinty gravels, 20 - 40 mm in diameter, and to be no more than 200 mm maximum depth;
5. No slopes to be created above 1:3 incline;
6. Assumed letter drop by local council to Pondwicks residents to inform from trusted authority.

FOR CONSTRUCTION

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Ver.	Ver. Date	Status	Drawn	Check'd	Appr'd



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Client



Project 3159D - Barn Meadow
Detailed Design

Title
**Pondwicks Meadow
Design Planview**

Drawing number
5R-3159D-102

Scale
1:500 @ A3

SAFETY, HEALTH, AND ENVIRONMENT (S.H.E) INFORMATION BOX

SAFETY AND HEALTH ISSUES

SPECIFIC RESIDUAL HAZARDS HAVE BEEN IDENTIFIED ON THE DRAWING WITH THE FOLLOWING SYMBOLS

KEY	DETAILS
	Existing traffic systems within and adjacent to the site (roads, public rights of way)
	Utilities
	Manual handling
	Working in and around water

