Welcome

Hampshire County Council, Winchester City Council, the Environment Agency, Hambledon Parish Council and Hambledon Flood Action Group have been working together to develop plans for a flood alleviation scheme for Hambledon.

The purpose of this exhibition is to provide information about:

- Why there is a need for the scheme;
- How it is being funded;
- What work will be undertaken;
- When the scheme will be implemented; and
- How you can help.

We hope that you find the exhibition informative. Please have a look at the boards, and talk to representatives of the above organisations who are on hand during the event if you have any questions.

Please complete the forms available if you have any particular concerns or questions.

www.hants.gov.uk
Hambledon Flood Alleviation Scheme

Why is there a need for the scheme?

Hambledon suffered damaging and prolonged flooding last winter. This caused major disruption to the community, properties and businesses, the closure of the main roads through the village, and inundation of the foul sewer system.


Hampshire’s Local Flood Risk Management Strategy ranks the Hambledon, Droxford and Soberton Ward as being at the highest risk of groundwater flooding. Some of the key issues are listed on the right.

A feasibility study was carried out in 2012/13 with the aim of identifying options for flood alleviation measures that would provide the most effective outcomes. The study made an assessment of previous reports on flooding at Hambledon, and consulted with representatives of the Local community, Hampshire County Council, Winchester City Council, Hambledon Parish Council, local Flood Action Group and the Environment Agency.

Key issues:

- Major flooding events resulting from high groundwater conditions.
- Village placed ‘on hold’ with significant economic and social costs.
- Lack of capacity in existing small diameter surface water pipe.
- No alternative flood routing other than the highway.
- Some property ground floor levels are below road level.
- The highway is closed during severe flood events.
- Infiltration of foul sewers causes sewage flooding and health risks.
- Pumping of cellars adds to surface water flooding.
How does the flooding happen?

The main cause of flooding in the village is a rise in the level of the groundwater. This causes flooding of cellars, and to some ground floor areas, which leads to pumping out of properties. It also causes surface water flooding and flooding of the foul sewers.

The village is located around the junction of two normally dry valleys. The three main roads through the village, East Street, West Street, and Green Lane, run along the bottom of these valleys. Surface water in Hambledon drains via a winterbourne stream that starts at the north, is piped through the village before emerging at the southern edge of the settlement where it again runs in a stream past Bury Lodge Farm and via World's End to the River Wallington.

Historically, groundwater and surface water would be carried through the village in a sequence of open ditches and culverts. Over the years the ditch in the centre of the village has been piped and filled in, most notably during the Second World War, when hardstandings were constructed for parking military vehicles. The existing pipe size is able to accommodate significantly less water flow than the old ditch so during a flooding event the roads become the watercourses. It is also reported that the road through the village was, in some places, much lower than it is today.
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What is the aim of the flood alleviation scheme?

The aim of the scheme is to reduce the risk of flooding to properties in East Street, West Street and Green Lane, and to keep the village roads open during a flood event. It will seek to do that by:

- Reducing surface water flooding of the highway by diverting water from north east of the village into a new large pipe beneath the road;
- Improving management of water on the highway, including that pumped out from properties, by changing the profile of the road and resurfacing to retain water within the kerb lines, and by providing opportunities for it to be carried away by the new large pipe; and
- Improving the discharge of the ditches to the south of the village so that floodwater can be effectively drained away.

In order to achieve this the County Council is working closely with its partners and utility companies. Following surveys of the sewers in 2013 and 2014, a repair programme will begin in October to improve the performance of Southern Water’s network and to reduce the risk of sewer flooding from groundwater infiltration.

How will the completed scheme be better for you?

- Reduced damage, disruption and costs to homes, businesses and infrastructure;
- Reduced levels of distress to residents caused by flooding;
- Minimised health risks from sewer flooding;
- Reduced costs for maintenance and operations; and
- Vehicle access for the village remains open during flooding.

The scheme will not be able to stop groundwater rising and causing flooding to cellars and some ground floor areas. Pumping will therefore need to continue for those properties affected.
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How will the work take place?

The flood alleviation scheme will be constructed in two phases:

- **Phase 1** (October to December 2014):
  Improvements to outfall and network of drainage ditches downstream of the village; and

- **Phase 2** (January 2015 to Spring 2016):
  Provision of floodwater culverts along East Street, West Street and parts of Green Lane, and re-profiling and resurfacing the highway to enhance carrying capacity.

Work will also be undertaken in October and November this year to make sure that the existing road gullies along West Street, East Street and Green Lane are clear. In addition, there will be some localised work to existing highway drainage in East Street to enhance flood resilience this winter.

How much will it cost?

The total cost for the scheme, both Phase 1 and 2, is £4.3m. Of this total, £2.9m has so far been secured by the County Council with contributions from Winchester City Council and central Government. Completion of the full extent of Phase 2 is subject to the availability of further funding from Central Government. An announcement on this is expected in December 2014.

Will Phase 2 go ahead if the funding from central Government doesn’t become available?

Yes. The County Council and its partners are committed to completing as much of the scheme as can be achieved within the funding available. The priority for Phase 2 work will be to connect to the improvements achieved in Phase 1. Phase 2 works will therefore extend from Lotts Store northwards.
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When will the work take place?

**Phase 1 + 2 Detailed Design**

**Phase 1 Works**

**December 2014**

**Works Complete**

**December 2016**

What is happening during this period?

- Development of the scheme.
- Submission of bid for central Government funding.
- Repairs to existing drainage systems carried out.
- On site investigations carried out.
- Environment Agency consents applied for.
- September – Phase 1 contractor appointed.
- September / October – condition surveys carried out.
- October to December – Phase 1 works carried out.
- December – Phase 2 contractor appointed. Methodology and programme confirmed.

What will happen during this period?

- Main works will start. They are estimated to take 12 months if no further flooding.
- Roads will be closed in sections to allow the work to be carried out.
- Road diversions will be required.
- Pedestrian access to all properties will be maintained throughout the works.
- Multiple utility diversions will be required.
- Regular updates will be provided.

What will happen during this period?

- Final carriageway surfacing carried out.
- Handover of access points.
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What will Phase 1 include?

Works will take place between the outfall at Lott’s Store and Bittles Farm, and in East St to the north. The objective is to provide enough capacity in the ditch to minimise the risk of flooding to properties, the highway and critical infrastructure.

- **Lotts Store to Hook Vinney (Chestnut Meadow)** - This will involve re-profiling of the ditch along the east boundary and upgrading the culverts along its length, including beneath the property lower field entrance;

- **Hook Vinney to Bury Lodge Cottages and in the field opposite past the sewage pumping station** - This will involve substantial ditch widening, blockage clearing and upgrading culverts beneath property driveways;

- **Bittles Farm** - This will involve changing the re-alignment of the Hambledon stream along a new-cut ditch with a new culverts laid beneath the stables access tracks and driveways.

Diagram to show how some sections of the existing ditch will be re-profiled, widened and deepened to increase discharge.
**Hambledon Flood Alleviation Scheme**

**What will Phase 2 include?**

This phase will provide new large diameter floodwater culverts beneath West Street and East Street. The existing surface water pipe will remain in place and repaired where required.

- Works will start south of Lotts Store where the existing brick headwall will be replaced with a new reinforced concrete outfall for the existing 375 mm diameter and a new 1250 mm diameter surface water pipes.

- From Lotts Store to the junction with Green Lane, a new plastic 1250 mm pipe will be installed through the centre of the road at depths down to 3m from the current road level.

- From Green Lane to the existing ditch north of the village, it is proposed to provide a new 900mm diameter pipe.

**What size pipes will be used where?**

- A 900mm diameter pipe will be used over this length.

- A 1250mm diameter pipe will be used between Lotts Store and Green Lane.
How will Phase 2 be built?

- Plastic twin walled pipes are being used for the new floodwater culverts. They are up to 94% lighter in weight than concrete, and easier to handle and transport. They also contain a high proportion of recycled material.

- It is anticipated that there will be 32 new manholes. These are needed for inspection and maintenance, and are required at changes of direction and connections.

- A screen and catch pit at the north end of the pipe will restrict debris and silt from blocking the culvert.

- To reduce the risk of utility works being undertaken after these works, each utility company has been asked to identify: Planned works; Issues with existing infrastructure; and Opportunities to work together to undertake works at the same time.

- As the diagram opposite shows, because some of the pipes linking to the existing foul sewer are expected to clash with the new floodwater culvert, a new foul sewer and connections will be provided on one side of the new culvert. This proposal has been agreed with Southern Water.

- Properties that need to pump out during flooding will be able to drain into new gulley pots that will connect with the floodwater culvert.

Typical section of the works

- As the typical section shows, the new floodwater culvert will be installed deep in the ground to minimise the impact on other utility services. However, some diversions will still be required and connections from properties will need to be cut and reconnected as quickly as possible. All residents will be notified in advance.

- Working space will be extremely limited. The work will be undertaken in work zones. Only pedestrian access can be maintained through the work zone and the road in this zone will be closed to all other traffic.
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Some frequently asked questions about Phase 2

Q. How can I access my property during the works?

A. Pedestrian access will be available at all times. Vehicle and delivery access will be disrupted. You can help us by completing the questionnaire, the more information you can give us the better.

Works are to be built in around 100m lengths. This work zone will be limited to works vehicles only. Outside of the work zone access and parking zones will be created to ensure the contractor has access to the works and local residents and businesses can park and receive deliveries. Temporary space for turning and reversing vehicles will also need to be provided.

Q. Will all the roads be closed?

A. Roads are expected to be closed for through traffic between junctions. Diversion routes and access points will be posted via the scheme website and site notice boards during the works.

Q. What arrangements are you making for the buses including community and school buses?

A. The Council is currently consulting with the local public bus operators, including school buses. Further details will be posted via the scheme website and site notice boards during the works.

Q. Why not just lower the road?

A. The possibility of lowering the road was thoroughly examined but it was too expensive as it would require the diversions of a large number of services located underneath the carriageway and the footpaths.

Q. What happens if it floods during the works?

A. It all depends on the severity of the flood. If the flood is manageable enough, then pumps will be employed by the contractor. The works will need to be temporarily suspended if not.

Q. Will we still be able to pump out our cellars onto the road whilst the works are being carried out?

A. Only if water reaches the level where pumping is allowed, in which case works will be suspended to enable pumping. Otherwise pumping will not be permitted while works are under way due to health and safety reasons.

Q. When you cut the utilities and foul drainage how long will it be for?

A. Replacement pipes and cables will be installed next to the existing so that when they are transferred the time will be as short as possible. You will be notified before the works happen on your property.
We would like you to tell us if there is anything you think we might have overlooked, details about events that might be coming up, plans for works or any other information that you think would be helpful to us in preparing for the scheme.

Access during the works will be limited. Please let us know about specific access or delivery needs to your property and we will endeavour to arrange alternative access.

You can let us know this information by completing the questionnaire which is available at the exhibition or online at www.hants.gov.uk/hambledon-flood-alleviation

If you have any other queries relating to the works you can contact us by:

- Email: hambledon@hants.gov.uk
- Telephone: Hantsdirect - 0845 603 5633
  Textphone - 0845 603 5625
- Writing to us at:
  Hambledon Flood Alleviation Scheme
  Economy, Transport and Environment Department,
  Hampshire County Council,
  The Castle,
  Winchester,
  SO23 8UD

Please can we have all comments back as soon as possible and by 29 November 2014 at the latest.

What happens next?

Your comments will help us to finalise the detailed design of the scheme and preparations for the work. Phase 1 works will start in late October 2014 and, weather permitting, will finish in December. The delivery of Phase 2 will begin in January 2015 again, subject to weather.

How can I keep up to date during the works?

For the latest information on scheme progress and to view and download the latest scheme drawings, please visit our website: www.hants.gov.uk/hambledon-flood-alleviation

In addition, information will be provided in the Hambledonian, local media, on local noticeboards and leaflets.

Thank you for taking the time to view our exhibition. We hope you found it informative and look forward to receiving your comments.