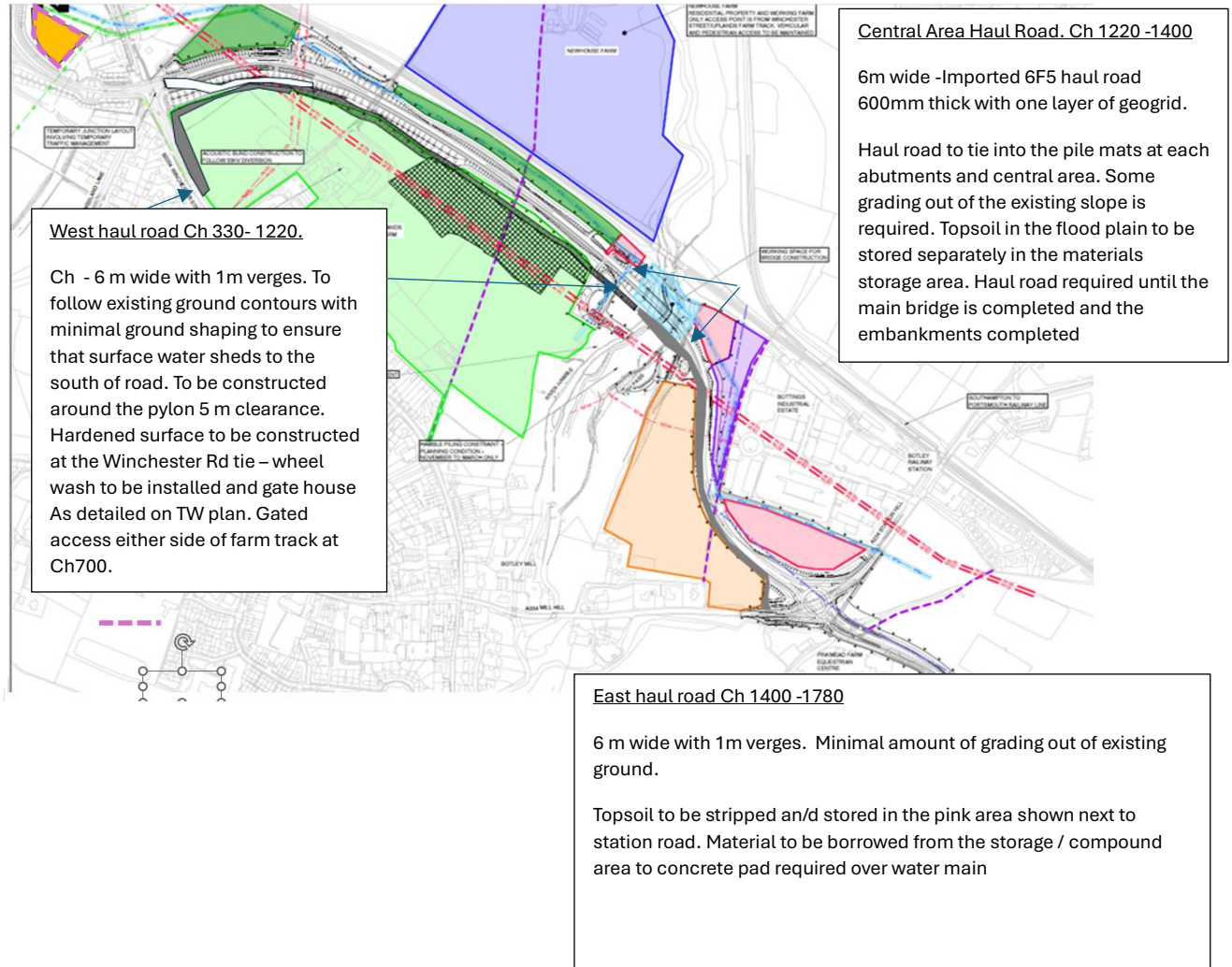


Botley Bypass Phase 3

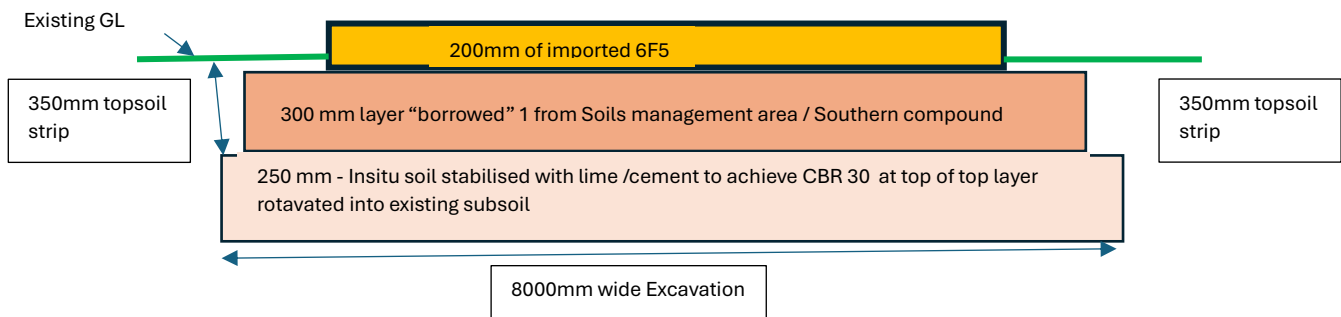
Main Works Construction Methodology November 2024

Haul Road Construction



The haul road is to be constructed on the south side of the bypass.

The haul road construction is

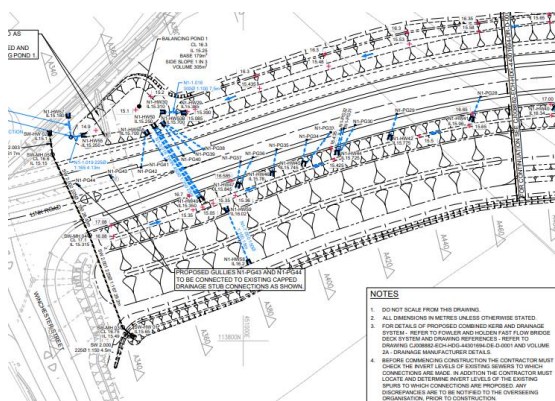


The location of the haul road is shown on the temporary works main drawing.

West of the river the haul road is on the outside of the site boundary.

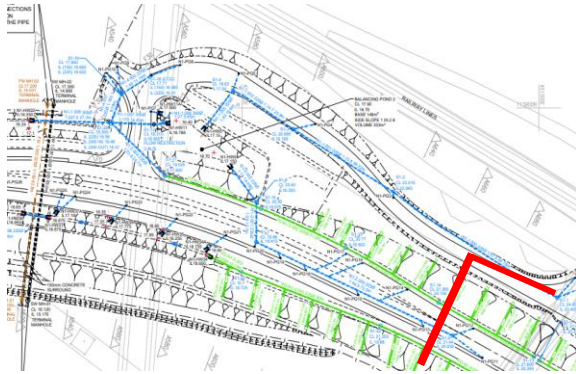
On the east of the river the haul road is to be constructed on and to the south of the line of the 3m wide pedestrian footway.

Section 1- Construction Ch340 -680

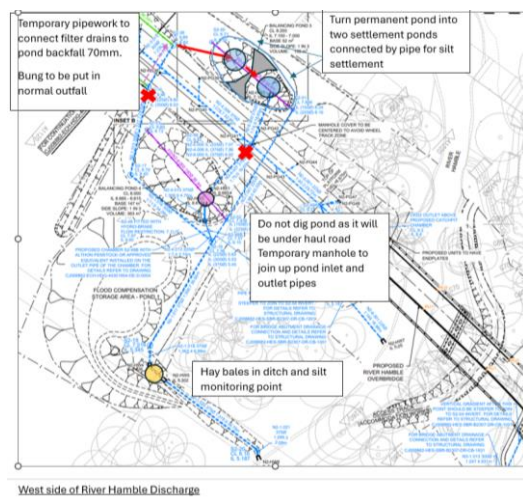


Ch 340 – Ch 680

- 1 – Topsoil strip to be taken to UDI storage area
 - 2- Cut and fill general earthworks – including forming of pond 1, pond 2 and bund to back of verge level – cut/ fill to chainage 600 with surplus coming from Ch 600 -680. Excavated materials to be modified by lime after placing in verge and bund.
 - 3 Road box dig between Ch 340 -600 and the farm access track (crossing point to be formed over the PW watermain) install capping any fill required below capping is to be built up in imported capping
 - 4- Ch 600 -680 – excavate enough material from the main cut to complete the bund leaving out haul road crossing point and under exist electric cable.
 - 5- Install outfall drainage and carriageway drainage Ch 340 -600 and farm track drainage Ch540 -700.
- Install fence posts on bund place topsoil on its batters.
- 6- Once drainage is install subbase kerbs/ gullies. On the main line install gullies prior to kerbs, on farm track install gullies after kerbs and relay kerbs taken out to build gulley.
 - 7 Install street lighting ducts.
 - 8- Trim subbase and prepare for surfacing. Ch 330-600 and farm track
 - 9- Verge fill and topsoil prepare to open the carriageway to the farm.
 - 10- Once the farm track is open remove the plug between Ch 680 and 720
 - 11- Green filter drains ch 560- 680 -are to be installed at the side of the road box. These vary in size throughout the works. The depth of the pipework is



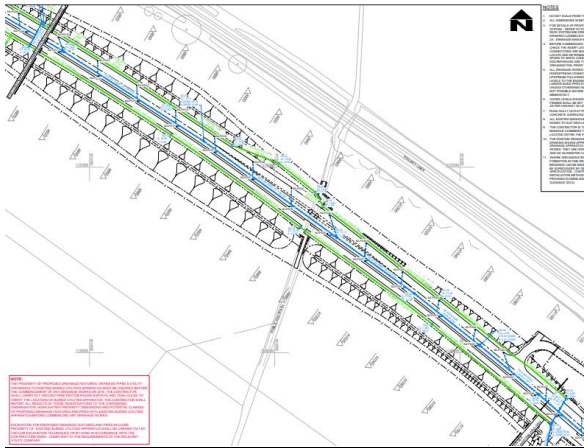
Section 2



Section 3

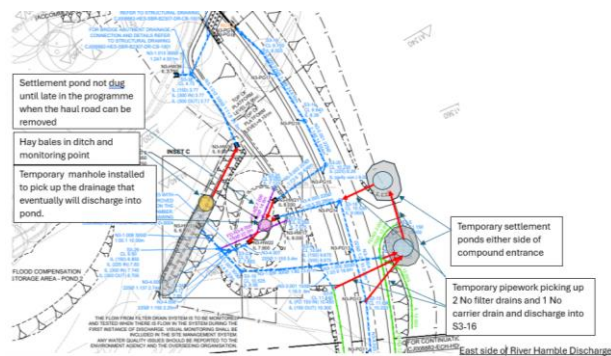
Chainage 1140 -1230

- 1.0 Topsoil strip – store in soil storage area in two separate areas –
A- River valley material with H/ Balsam and 1180 – 1230
B-1140 -1230
- 2.0 Excavate the flood relief pond and topsoil – and install haul road off the main haul road.
- 3.0 -Excavate the outfall structure (temporary sheeting may be required depending on river level) install the outfall structure and pipework to the main haulroad.
- 4.0 Cut and fill the main line between Ch 1180 and Ch 1140 and install capping to the start of the rigid inclusion mat.
- 5.0 Working from the haul road cut and fill the rigid inclusion piling mat
- 5.0 Install drainage to Ch 1140 including the temporary settlement pond on the north side .



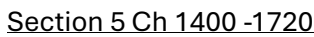
- 1.0 Topsoil strip between Ch720 – 1140 place in the soils area
- 2.0 Starting at Ch 1140 excavate and fill the earthworks up from Ch 1140 to Ch 720
- 3.0 Excavated materials are to be lime modified after excavated material has been placed in verges and the bund. Any area of road box that requires filling below sub formation is to be brought up in capping.
- 4.0 The earthworks needs to be carried out in 100 m-150m sections with the road box being dug as the works progress and capping placed in the centre of the box leaving 0.5 m unstoned at the edges.
- 5.0 Install the filter drains Ch 720 -1140 at the edge of the road box. These vary in size throughout the works. The depth of the pipework is shown on the drawings with a min of 50mm to underside of capping – some are deeper up to 1.1m from underside of road box to invert of the pipe.
- 6.0 Once in the main cut has been excavated, install the counterfort drains on both side of the cut. These need to be constructed with the filter drains as they are connected into the drains.
- 7.0 Once the filter drains have been installed excavate and install the road box carried drains.
- 8.0 Trim and compact the capping material topping up the filter drains as work proceeds.
- 9.0 Place the subbase and trim to underside of kerb level.
- 10.0 Install the gullies prior to the kerbs
- 11.0 Install kerbs top up the filter drains fill and complete subbase.
- 12.0 Lay up to binder course.
- 13.0 Complete the bund works including topsoil and installing the acoustic fencing

(similar sequence to section 2)



1.0 Topsoil strip – store in soil storage area in two separate areas
– River valley material with H/ Balsam to be taken to the spoil storage area.

- The remainder of the topsoil to be stored adjacent to the satellite office near the roundabout.
- 2.0 Excavate the flood relief stream shelf and re topsoil/ seed.
- 3.0 -Excavate the stream outfall structure (temporary sheeting may be required depending on river level) install the outfall structure and pipework under the main haul road back to the temporary settlement ponds .
- 4.0 Cut and fill the main line embankment between Ch 1300 and Ch 1370 and install capping to the start of the rigid inclusion piling mat. The rigid inclusions are to be installed from two levels. See long section for temporary levels



- 1.0 Haul road to be constructed partly on the pedestrian footpath / cycleway.
- 2.0 Excavate / fill carriageway including road box from Ch 1400 – Ch 1620. Care to be taken excavating near the southern water 600mm watermain.
- 3.0 Fill material to be modified for moisture content by adding lime at deposition site.
- 4.0 Install watermain protection raft if required.
- 5.0 Areas of fill under the road box to be raised using capping material.
- 6.0 Install main capping leaving strip along each edge for filter drains.
- 7.0 Install cross drainage for Hoe Lane accommodation works
- 8.0 Excavate from capping level to install the filter drains
- 9.0 Excavate and install the carriageway drainage.
- 10.0 Top up capping.
- 11.0 Install first layer of subbase and install gullies prior to kerbs.
- 12.0 Complete road construction to binder course level.
- 13.0 Remove haul road – Recycled capping on haul road to be used as fill on the embankment areas either side of the river.
- 14.0 Construct footpath / cycleway including street lighting near the roundabout.