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CANAL WAY

REET

Existing gully and connection retained

Extent of drainage network served by existing outfall is unknown. Contractor to verify outfall is redundant. If positive connections are found, Contractor to construct a new outfall into the river adjacent to the proposed bridge and divert this network towards it.

Existing ASDA network petrol interceptor.

Existing river outfall to be abandoned upon diversion.

Existing river outfalls serving highway drainage to be retained. Flow into river to remain unrestricted.

Existing highway drain. Diameter, depth and condition unknown.

Existing gully to be retained, utilising existing connection.

Diverted highway sewer to be located outside footprint of embankment to avoid soil stabilization works.

Flow control device provided in manhole to restrict discharge towards river, refer to note 7.

Assumed alignment of existing highway drain. Pipe to be diverted.

Contractor to locate existing highway drain and construct new manhole onto it. The Contractor shall inform the Engineer of the pipe invert level, and whether any subsequent alterations will be required to the downstream proposed network.

Contractor to construct new outfall into the river wall, with flap valve provided. Refer to drawing A61-ARUP-XX-XX-DR-CH-116 for further details of outfall construction.

Playing Field

Gas Gov

OLD MILL BRIDGE

OLD TANNERY ROAD

OLD MILL

Gas Holder

Warehouse

A61

HARBOROUGH L ROAD
TWIBELL ST

Key continued:

- Ex X Existing river outfall retained
- New X New river outfall to be constructed
- Re X Existing river outfall to be removed
- Existing ckd system to be retained. New access lid to be provided at upstream end of run
- Proposed CKD, Marshall's Mini Beany or similar approved, with 260 base unit and half battered top block.
- Proposed ckd outfall unit, Marshall's Mini Beany In-line Side Outfall unit.
- Proposed 150mm dia connection pipe from CKD run

Notes:

- Refer to A61-ARUP-XX-XX-RP-C-0103 Drainage Schedule for details of the proposed drainage strategy and the manhole schedule.
- Existing drainage indicated has been interpolated from a combination of the utilities survey undertaken (2018), dye tracing survey undertaken by BMBC (August 2021) and BMBC record drawings. Exact location of existing sewers should be verified on site, and reported back to the engineer if found to be different to that shown.
- Where existing gullies are shown to be provided using an existing gully lead, the Contractor shall verify that the existing gully lead can be located and utilised. If necessary a new gully connection should be made to the highway sewer indicated. The Contractor shall ensure that all drainage runs towards the river remain operational whilst construction works take place, through the use of temporary diversions if required.
- For any existing river outfalls to be removed due to the proposed bridge piles, the Contractor shall be responsible for ensuring these are redundant before blocking off.
- Refer to drawing A61-ARUP-XX-XX-DR-CH-116 for details of the new outfalls into the existing river wall. This detail is subject to approval from the Environment Agency and BMBC Highways.
- MH S4 to be fitted with a hydrobrake flow control device, or similar approved, to restrict flow from the northern side of the bridge into the river. Flow control details:
 - Restricted Flow = 38 l/s;
 - Design Head = 1.0m;
 - Outlet dia = 262mm
 - Ref: MD-SHE-0262-1000-3800
- A flap valve has been specified at the river outfall, to meet Environment Agency requirements.
- Outfall C to be constructed at a 45° angle through wall to meet Environment Agency requirements.

Key:

- Existing highway drainage
- Existing surface water sewer
- Existing combined public sewer
- Existing private surface water drainage
- Proposed gully with new gully lead
- Proposed gully to utilise existing gully lead
- Existing gully and lead to be retained
- Proposed manhole
- Proposed highway drainage
- Existing highway drainage to be diverted and removed

P04	19/12/22	KK	HJ	CW
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Gullys 3-7 replaced with CKD

P03	21/10/22	KK	HJ	CW
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Outfall detail updated for EA

P02	17/06/22	SM	HJ	CW
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Highway drainage diversion updated

P01	08/10/21	KK	HJ	CW
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Stage 4 Issue

Rev	Date	By	Chkd	Appd
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Client

South Yorkshire Passenger
Transport Executive

Project Title

A61 Corridor

Drawing Title

Old Mill Bridge Upgrade
Proposed Drainage

Scale at A1

1:500

Role

Highways

Suitability

- S1 - Fit for co-ordination

Arup Job No

253511-00

Rev

P04

Name

A61-ARUP-XX-XX-DR-CH-115