HOLE IN SW SEWER (SEE PHOTO 5).

SW PIPE IS 3m LONG 'INVERTED SIPHON.' IT DROPS UNDER ANOTHER U/G UNKNOWN UTLITY (PHOTO 6)

LARGE STONE DEBRIS - 2M D/S OF MH005. CANNOT EASILY BE REMOVED (PHOTO 8). STONES HAVE MINIMAL EFFECT ON FLOW CAPACITY, BUT COULD CAUSE PROBLEMS IF WASHED FURTHER DOWN SYSTEM.

DITCH HAS NO OUTLET. THIS AREA IS SURROUNDED WITH REEDS, THE DITCH RETAINS WATER. AREA OF WATER VARIES ACCORDING TO RAINFALL. WATER SLOWLY ENTERS GROUND-WATER SYSTEM OR TRANSPIRES VIA VEGETATION.

LANDOWNER, MR PATEL

THIS OLD DISCHARGE IS LIKLEY TO BE ABANDONED. NOT FOUND ON SITE. THE INLET WAS ALSO NOT FOUND ON HILL TO SOUTH.

THE STREAM GOES INTO AN OPEN DITCH WHICH HAS NO OUTLET. THIS AREA AT THE BOTTOM OF THE GARDENS CAN FLOOD (AS REPORTED BY LANDOWNER).

POND WITH OUTLET TO DITCH.

MH003 COVER IS BURIED - IT SHOULD BE EXPOSED FOR FUTURE MAINTENANCE.

FIRST 170m OF STREAM CULVERT UNDER HOUSHOLD DRIVEWAYS IS CLASS AS 'PRIVATE'.

PHOTO 4:- BLOCKAGE BETWEEN MH019 & 018 STILL EXISTS (TWISTED METAL PARTS). CAN ONLY BE REMOVED BY DIGGING TO REPLACE PIPE. CONFINED SPACE ENTRY WITH ANGLE GRINDER TO CUT OUT MANUALLY MAY BE AN ALTERNATIVE.

PHOTO 5: Culvert damaged with 50% cross section loss due to another pipe crossing - likelely to be 18" cast iron water main, which has broken through the top half of culvert pipe. See NOTE 6.

PUBLIC SW CONNECTS TO 'PRIVATE CULVERT'.

450mm PRIVATE STREAM CULVERT.

450mm DIA. CULVERT (private)

TREE ROOTS FROM LEYLANDI TREES IN GARDEN OF NO. 31 HAVE FORMED A ROOT BALL WHICH IS A 20% BLOCKAGE. RE-;LAY PIPE WITH ROOT BARRIER, OR REMOVE TREES OR ROOT CUT FOR SHORT TERM SOLUTION.

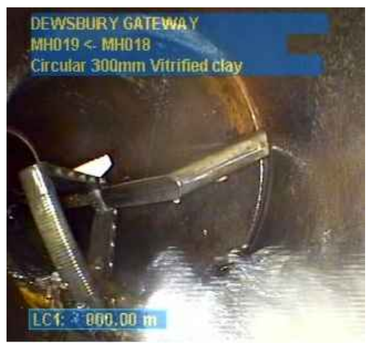



PHOTO 4: TWISTED METAL TRAPPED IN PIPE BETWEEN MH019 & 018.

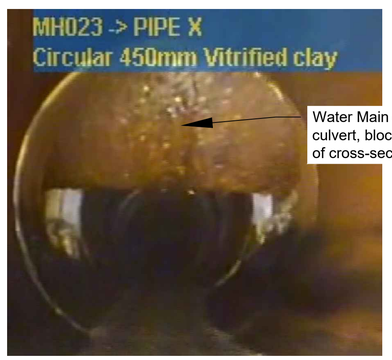
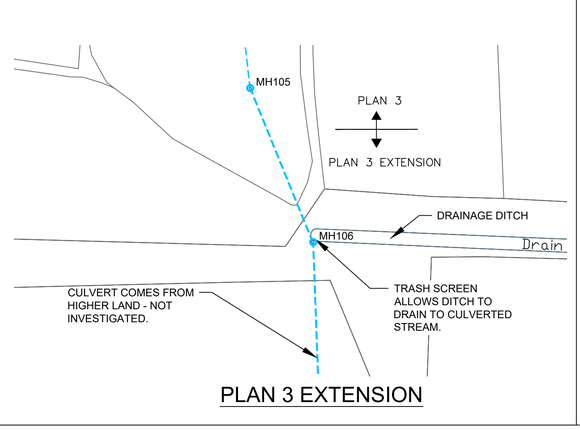
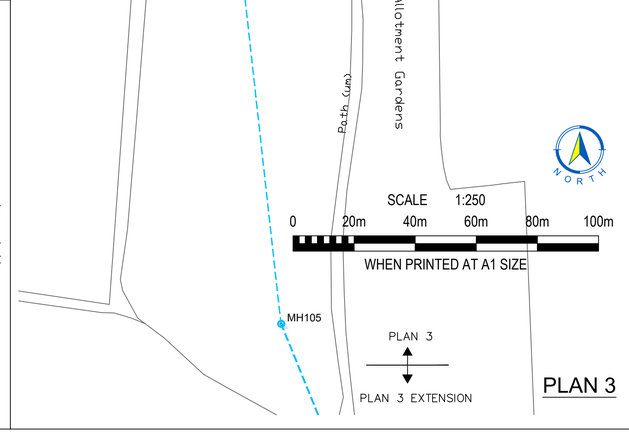



PHOTO 5:- WATER MAIN (TBC) CROSSES CULVERT BETWEEN MH023 & 026.




PLAN 3 EXTENSION




PLAN 3

AECOM

**PROJECT**

# DEWSBURY GATEWAY, KIRKLEES

**CLIENT**

Kirklees COUNCIL

**CONSULTANT**

AECOM Ltd.
1 New York Street
Manchester
M1 4HD
+44 (0)161 601 1700 tel www.aecom.com

**KEY**

- WATERCOURSE CULVERTS (PRIVATE - MANAGED BY LANDOWNERS).
- YW SURFACE WATER SEWER (PUBLIC).
- YW COMBINED SEWER (PUBLIC).
- YW FOUL SEWER (PUBLIC)

**NOTES**

1. CCTV SURVEY, SURVEY OF MH LOCATIONS AND INVERT DETAILS WERE PROVIDED BY SUBSCAN UDS IN JAN 2022. LINK TO VIDEOS OF CCTV SURVEY- https://web.wincan.com/Project/GR29565CCTV-7o5rgh
2. SUBSCAN'S MH CARDS AND DETAILED CAD DRG AVAILABLE FROM stephen.mccann@aecom.com OR thomas.fish@kirklees.gov.uk
3. THE SUBSCAN AUTOCAD DRG IS INCLUDED AS BACKGROUND TO THIS CAD - ZOOM IN SHOWS MORE DETAILS OF PIPE CONNECTIONS TO EACH MH.
4. SOME COMBINED & FOUL SEWER ARE ALSO INDICATED - DETAILS EXTRACTED FROM THE YW NETWORK PLANS VIA THE KIRKLEES COUNCIL KOMPASS GIS SYSTEM. ONLY THOSE PIPES IN VICINITY OF SURFACE WATER SEWERS ARE SHOWN. TO OBTAIN FULL SEWER RECORDS, CONTACT YW or KIRKLEES COUNCIL.
5. THE EXISTING SW NETWORK SHALL BE UTILISED TO SERVICE THE NEW GATEWAY HOUSING MASTERPLAN. SOME REPAIR WORK IS REQUIRED - SUMMARY REPORT PROVIDED BY stephen.mccann@aecom.com
6. UTILITY RECORDS INDICATE THAT THE PIPE THAT BLOCKS THE TOP HALF OF THE CULVERT IS A 1967 18" CAST IRON WATER MAIN (TBC). PERHAPS THE MOST PRACTICAL SOLUTION WOULD BE TO LOWER THE CULVERT. DISCUSSIONS WITH YORKSHIRE WATER SHOULD BE UNDERTAKEN TO ASSESS THE BEST OPTION. BECAUSE UPSTREAM TRASH SCREENS STOP DEBRIS, THIS SECTION OF 50% CULVERT DOESN'T SEEM TO BE PRONE TO BLOCKING, BUT IT IS NOT GOOD PRACTISE TO LEAVE THE CULVERT COMPROMISED - IF USING IT FOR THE NEW HOUSING DEVELOPMENT.

**ISSUE/REVISION**

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| v2 | 09.02.2022 | FOR INFORMATION |
| I/R | DATE | DESCRIPTION |

**PROJECT NUMBER**

60642289

**SHEET TITLE**

DEWSBURY GATEWAY
YW SEWERS & CULVERT
OVERALL PLAN

**SHEET NUMBER**

Drainage CCTV Survey Plan 3

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