

## Appendix B: Existing Drainage - Survey Drawings

| Drawing Number                               | Drawing title                                                          |
|----------------------------------------------|------------------------------------------------------------------------|
| HA514451-CHHJ-HDG-SZ_DGZZZZZZZZ_Z-DR-CD-5350 | DCO Req't 14 Existing Drainage Legend & Notes                          |
| HA514451-CHHJ-HDG-SZ_DGZZZZZZZZ_Z-DR-CD-5351 | DCO Req't 14 Existing Drainage Sheet 1 of 30 Ch 62900.000 - 61400.000  |
| HA514451-CHHJ-HDG-SZ_DGZZZZZZZZ_Z-DR-CD-5352 | DCO Req't 14 Existing Drainage Sheet 2 of 30 Ch 61400.000 - 59600.000  |
| HA514451-CHHJ-HDG-SZ_DGZZZZZZZZ_Z-DR-CD-5353 | DCO Req't 14 Existing Drainage Sheet 3 of 30 Ch 59600.000 - 57800.000  |
| HA514451-CHHJ-HDG-SZ_DGZZZZZZZZ_Z-DR-CD-5354 | DCO Req't 14 Existing Drainage Sheet 4 of 30 Ch 57800.000 - 56000.000  |
| HA514451-CHHJ-HDG-SZ_DGZZZZZZZZ_Z-DR-CD-5355 | DCO Req't 14 Existing Drainage Sheet 5 of 30 Ch 56000.000 - 54200.000  |
| HA514451-CHHJ-HDG-SZ_DGZZZZZZZZ_Z-DR-CD-5356 | DCO Req't 14 Existing Drainage Sheet 6 of 30 Ch 54200.000 - 52400.000  |
| HA514451-CHHJ-HDG-SZ_DGZZZZZZZZ_Z-DR-CD-5357 | DCO Req't 14 Existing Drainage Sheet 7 of 30 Ch 52400.000 - 50600.000  |
| HA514451-CHHJ-HDG-SZ_DGZZZZZZZZ_Z-DR-CD-5358 | DCO Req't 14 Existing Drainage Sheet 8 of 30 Ch 50600.000 - 48800.000  |
| HA514451-CHHJ-HDG-SZ_DGZZZZZZZZ_Z-DR-CD-5359 | DCO Req't 14 Existing Drainage Sheet 9 of 30 Ch 48800.000 - 47000.000  |
| HA514451-CHHJ-HDG-SZ_DGZZZZZZZZ_Z-DR-CD-5360 | DCO Req't 14 Existing Drainage Sheet 10 of 30 Ch 47000.000 - 45200.000 |
| HA514451-CHHJ-HDG-SZ_DGZZZZZZZZ_Z-DR-CD-5361 | DCO Req't 14 Existing Drainage Sheet 11 of 30 Ch 45200.000 - 43400.000 |
| HA514451-CHHJ-HDG-SZ_DGZZZZZZZZ_Z-DR-CD-5362 | DCO Req't 14 Existing Drainage Sheet 12 of 30 Ch 43400.000 - 41600.000 |
| HA514451-CHHJ-HDG-SZ_DGZZZZZZZZ_Z-DR-CD-5363 | DCO Req't 14 Existing Drainage Sheet 13 of 30 Ch 41600.000 - 39800.000 |
| HA514451-CHHJ-HDG-SZ_DGZZZZZZZZ_Z-DR-CD-5364 | DCO Req't 14 Existing Drainage Sheet 14 of 30 Ch 39800.000 - 38000.000 |
| HA514451-CHHJ-HDG-SZ_DGZZZZZZZZ_Z-DR-CD-5365 | DCO Req't 14 Existing Drainage Sheet 15 of 30 Ch 38000.000 - 36200.000 |
| HA514451-CHHJ-HDG-SZ_DGZZZZZZZZ_Z-DR-CD-5366 | DCO Req't 14 Existing Drainage Sheet 16 of 30 Ch 36200.000 - 34400.000 |
| HA514451-CHHJ-HDG-SZ_DGZZZZZZZZ_Z-DR-CD-5367 | DCO Req't 14 Existing Drainage Sheet 17 of 30 Ch 34400.000 - 32600.000 |
| HA514451-CHHJ-HDG-SZ_DGZZZZZZZZ_Z-DR-CD-5368 | DCO Req't 14 Existing Drainage Sheet 18 of 30 Ch 32600.000 - 30800.000 |
| HA514451-CHHJ-HDG-SZ_DGZZZZZZZZ_Z-DR-CD-5369 | DCO Req't 14 Existing Drainage Sheet 19 of 30 Ch 30800.000 - 29000.000 |
| HA514451-CHHJ-HDG-SZ_DGZZZZZZZZ_Z-DR-CD-5370 | DCO Req't 14 Existing Drainage Sheet 20 of 30 Ch 29000.000 - 27200.000 |
| HA514451-CHHJ-HDG-SZ_DGZZZZZZZZ_Z-DR-CD-5371 | DCO Req't 14 Existing Drainage Sheet 21 of 30 Ch 27200.000 - 25400.000 |
| HA514451-CHHJ-HDG-SZ_DGZZZZZZZZ_Z-DR-CD-5372 | DCO Req't 14 Existing Drainage Sheet 22 of 30 Ch 25400.000 - 23600.000 |
| HA514451-CHHJ-HDG-SZ_DGZZZZZZZZ_Z-DR-CD-5373 | DCO Req't 14 Existing Drainage Sheet 23 of 30 Ch 23600.000 - 21800.000 |
| HA514451-CHHJ-HDG-SZ_DGZZZZZZZZ_Z-DR-CD-5374 | DCO Req't 14 Existing Drainage Sheet 24 of 30 Ch 21800.000 - 20000.000 |
| HA514451-CHHJ-HDG-SZ_DGZZZZZZZZ_Z-DR-CD-5375 | DCO Req't 14 Existing Drainage Sheet 25 of 30 Ch 20000.000 - 18200.000 |
| HA514451-CHHJ-HDG-SZ_DGZZZZZZZZ_Z-DR-CD-5376 | DCO Req't 14 Existing Drainage Sheet 26 of 30 Ch 18200.000 - 16400.000 |
| HA514451-CHHJ-HDG-SZ_DGZZZZZZZZ_Z-DR-CD-5377 | DCO Req't 14 Existing Drainage Sheet 27 of 30 Ch 16400.000 - 14600.000 |
| HA514451-CHHJ-HDG-SZ_DGZZZZZZZZ_Z-DR-CD-5378 | DCO Req't 14 Existing Drainage Sheet 28 of 30 Ch 14600.000 - 12800.000 |
| HA514451-CHHJ-HDG-SZ_DGZZZZZZZZ_Z-DR-CD-5379 | DCO Req't 14 Existing Drainage Sheet 29 of 30 Ch 12800.000 - 11000.000 |
| HA514451-CHHJ-HDG-SZ_DGZZZZZZZZ_Z-DR-CD-5380 | DCO Req't 14 Existing Drainage Sheet 30 of 30 Ch 11000.000 - 10100.000 |

KEY:

GENERAL

- PREDIMETER ASSET TYPE
- SURVEYED ASSET
- ASSET NOT COTY SURVEYED
- SURVEYED DITCH FROM TOPOGRAPHICAL SURVEY
- DCO BOUNDARY
- WATERCOURSE

ASSET CONDITION COLOR CODING

- ADDITIONAL SURVEY NOTES ARE SHOWN IN PINK
- GRADE 1 DEFECTS ARE SHOWN IN BLUE
- GRADE 2 DEFECTS ARE SHOWN IN GREEN
- GRADE 3 DEFECTS ARE SHOWN IN GREEN

POINT ASSET TYPES

- CP CATCHPIT
- MH MANHOLE
- O OU OUTFALL
- GU/KO GULLIES AND KERB OUTLETS
- IT INLET
- OL OUTLET
- GI GRIP INLET
- GN/RE GHOST NOSE & RODDING EYES
- BI BIFURCATION OR OVERFLOW
- OS OIL SEPARATOR
- EW/ST/MS EXISTING OUTFALL REFERENCE (MAJOR OUTFALL)
- OU/FALL OMB OUTFALL OMB

LINEAR ASSET TYPES

- CD CARRIED DRAIN
- CF COMBINED FILTER DRAIN
- CU CULVERT
- DCH DRAINAGE CHANNEL
- ECH EXISTING CHANNEL
- FD FILL DRAIN
- SD SLOT DRAIN

INFORMATION BOXES

- CPXXX CP - CHAMBER REFERENCE
- CUXXX CU - CULVERT REFERENCE
- SDXXX SD - SLOTTED DRAIN REFERENCE
- BL - CHAMBER BASE LEVEL
- IL (H) - INVERT LEVEL OF PIPE X
- EL (H) - INVERT LEVEL OF PIPE X

NOTES

GENERAL

- GRID & LEVELS ARE ORDNANCE DATUM DERIVED FROM THE NATIONAL GPS NETWORK. LOCAL SCALE FACTOR USED IN ALL CALCULATIONS.
- BACKGROUND INFORMATION TAKEN FROM ORDNANCE SURVEY DIGITAL DATA SUPPLIED BY CLIENT.
- THESE DRAWINGS SHOW THE EXISTING DRAINAGE AS RECORDED FROM THE 2016 DRAINAGE SURVEY AND THE SURVEYED DITCHES FROM THE TOPOGRAPHICAL SURVEY.
- ALL LEVELS ARE IN METRES ABOVE ORDNANCE DATUM (mAOD).
- SURVEY DOES NOT INCLUDE A SURVEY OF THE CENTRAL RESERVE.



DELIVERING THROUGH

Project SMART MOTORWAYS PROGRAMME

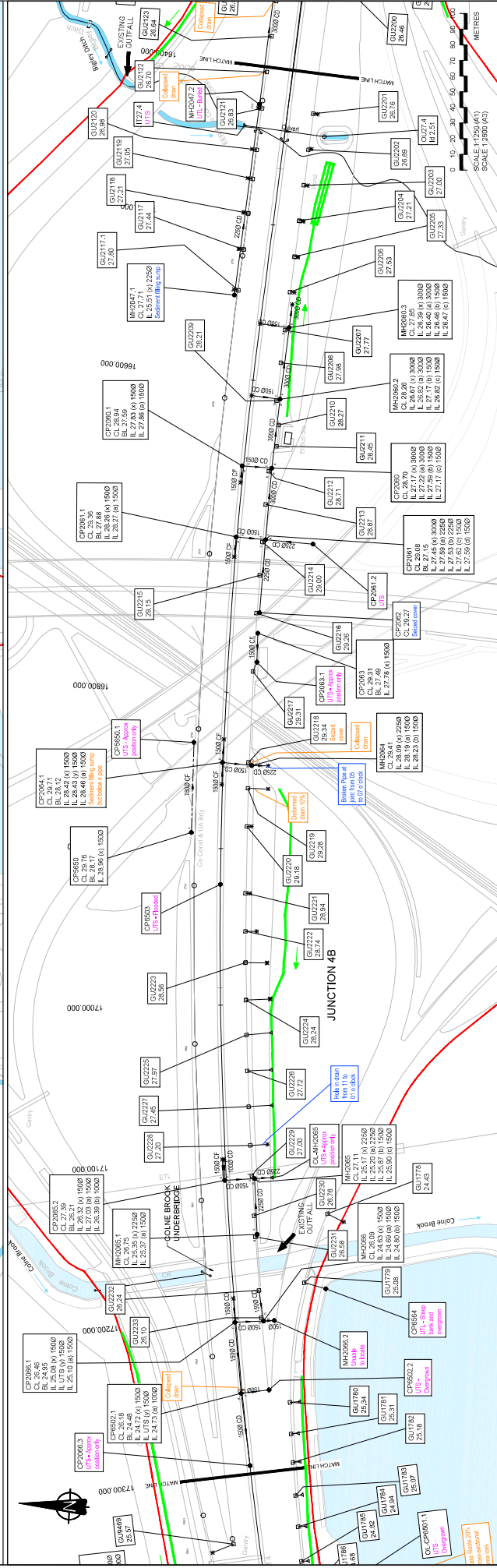
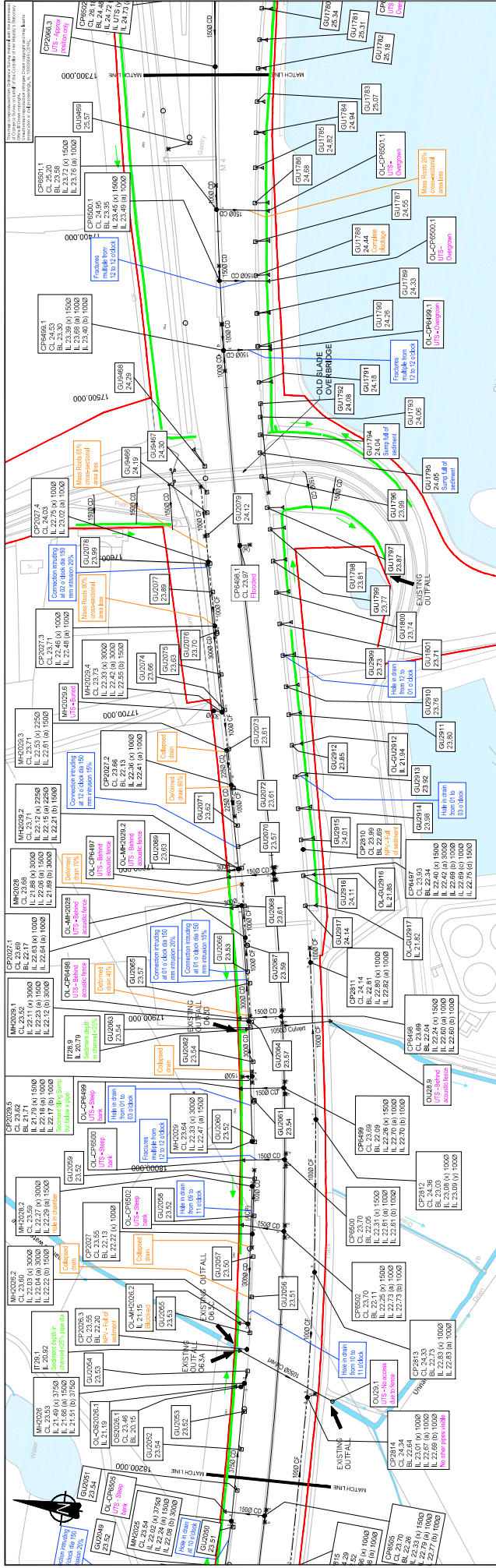
M4 JUNCTIONS 3-12

DCO Requirement 14

Existing Drainage

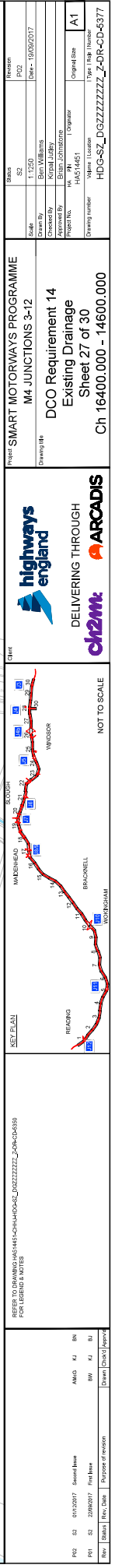
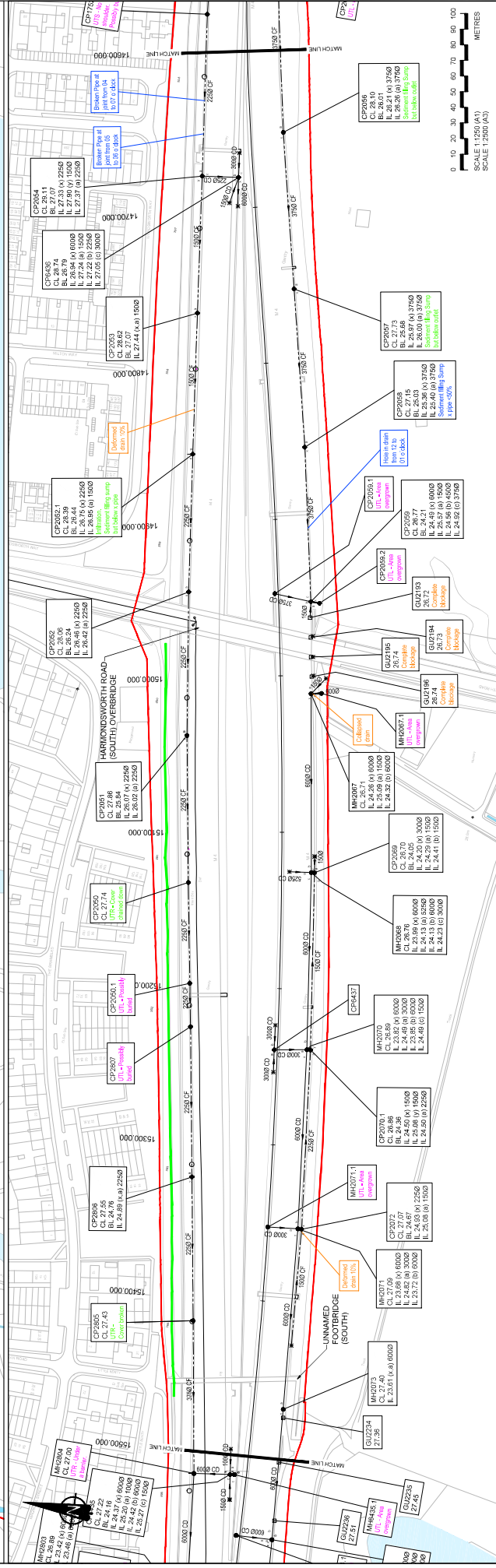
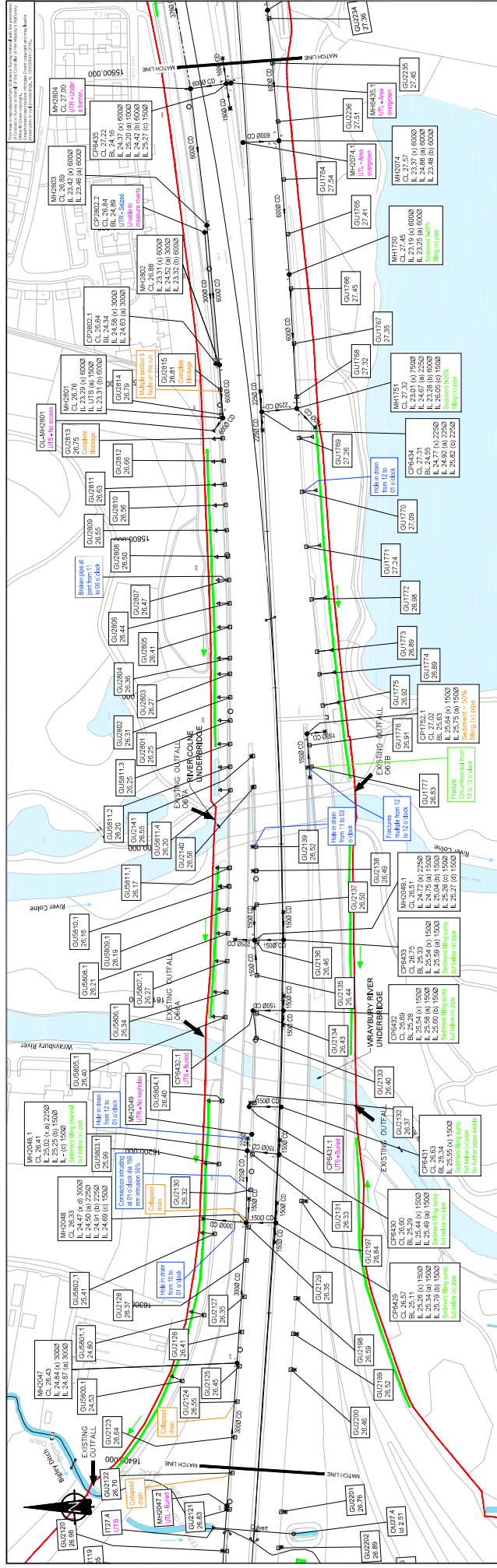
Legend & Notes

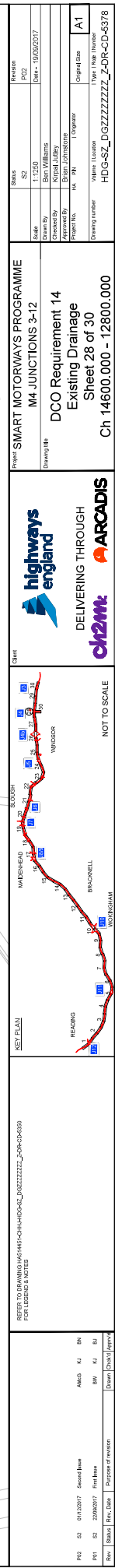
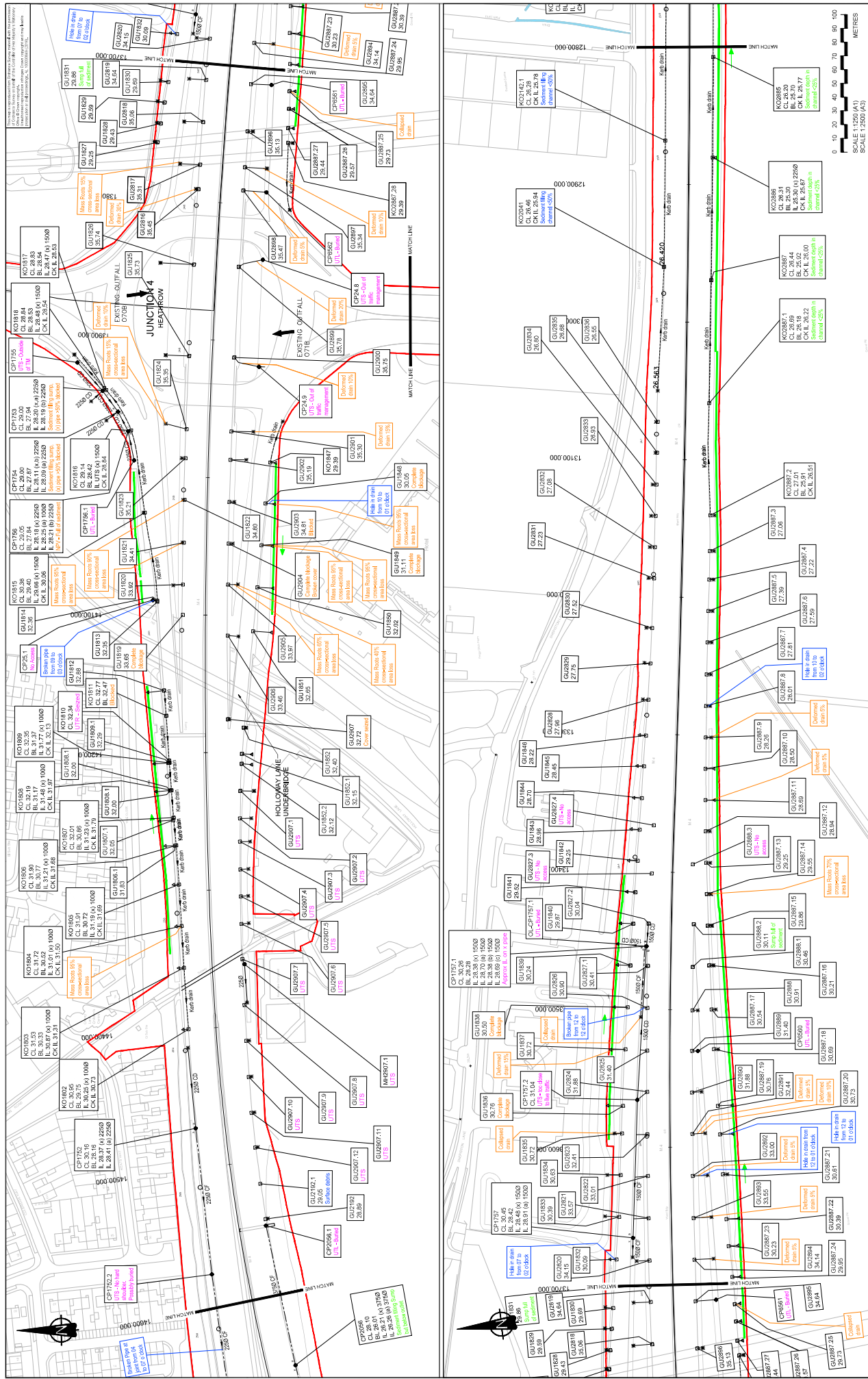
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|----------------|--------|--------------|
| Scale          | Sheet  | Revision     |
| 1:1250         | S2     | P02          |
| Drawn By       | Rev    | Date         |
| Rev Williams   | 1:1250 | 19/05/2017   |
| Approved By    | Rev    | Date         |
| Rev Williams   | 1:1250 | 19/05/2017   |
| Project No.    | Rev    | Originator   |
| Rev Williams   | 1:1250 | Rev Williams |
| Drawing number | Value  | Type         |
| Rev Williams   | 1:1250 | Rev Williams |



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|-----------------------------------------------------------|--|---------------------------|--|-------------------------|--|---------------------------------------|--|
| Project SMART MOTORWAYS PROGRAMME<br>M4 JUNCTIONS 3-12    |  | Client                    |  | highways<br>england     |  | DELIVERING THROUGH<br>ch2m<br>ARCADIS |  |
| DCO Requirement 14<br>Existing Drainage<br>Sheet 26 of 30 |  | Drawing Date              |  | Scale                   |  | Revision                              |  |
| Checked By<br>Kerol Jolley                                |  | Drawn By<br>Siti Williams |  | Project No.<br>H4514651 |  | Original Issue<br>H4514651            |  |
| Drawing number                                            |  | Project No.               |  | Project No.             |  | Project No.                           |  |
| Ch 18200.000 - 16400.000                                  |  | H4514651                  |  | H4514651                |  | H4514651                              |  |
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HA514451-CHHJ-HDQ-SZ\_DGZZZZZZZZ\_Z-DR-CD-5378.dwg



