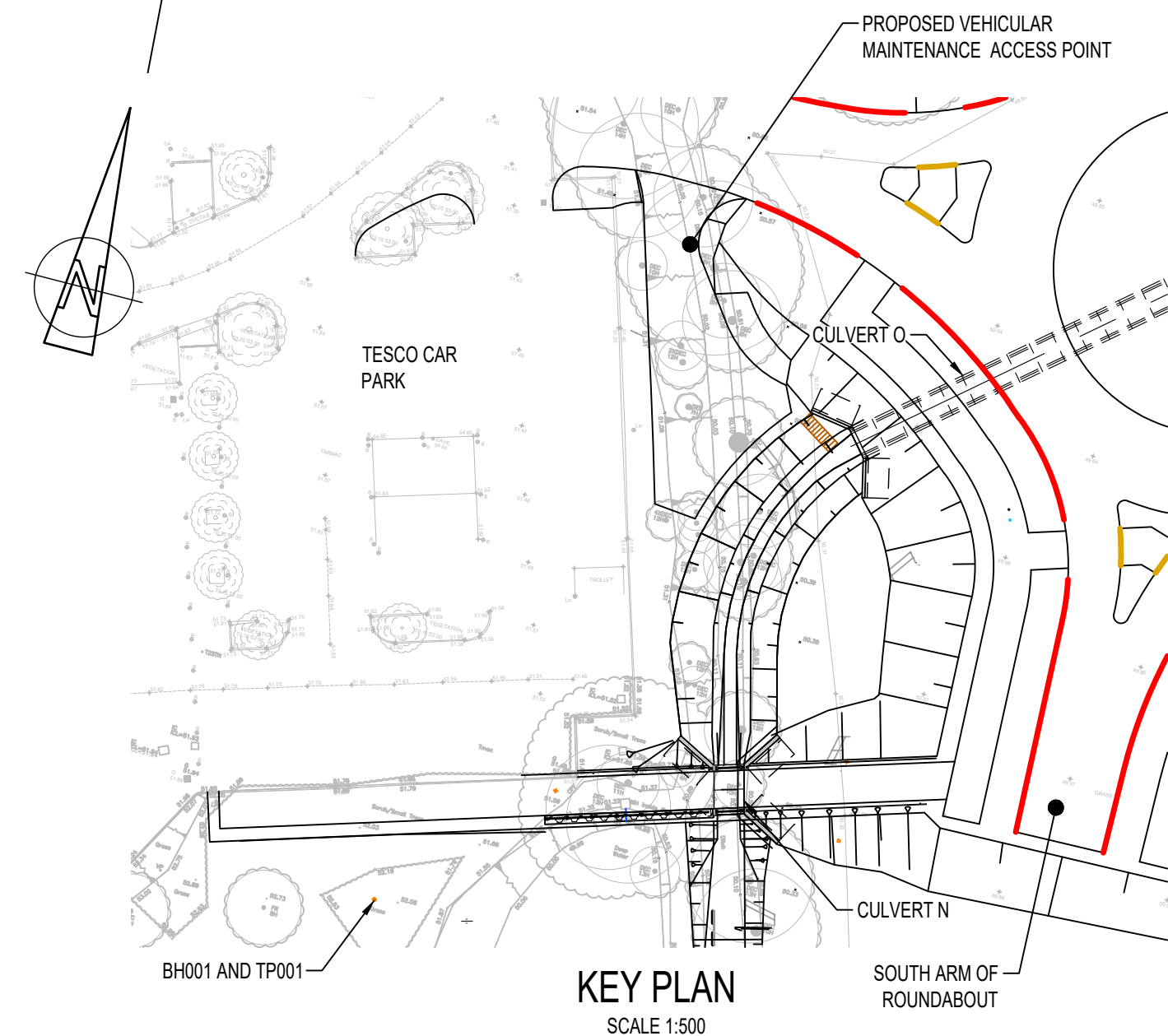
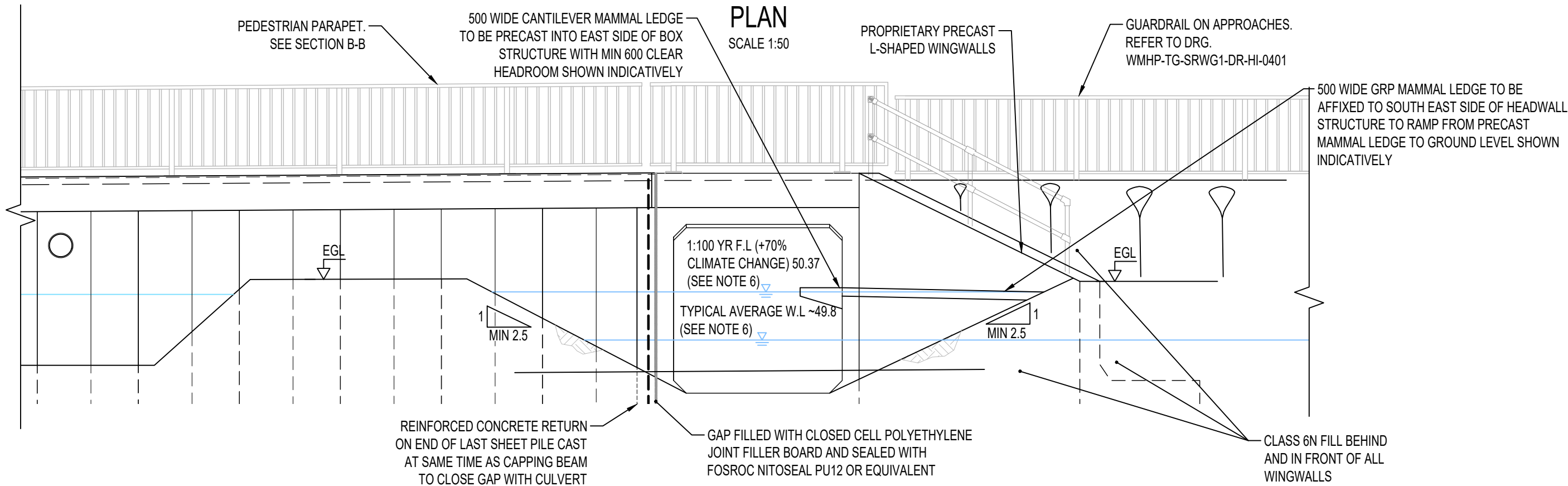
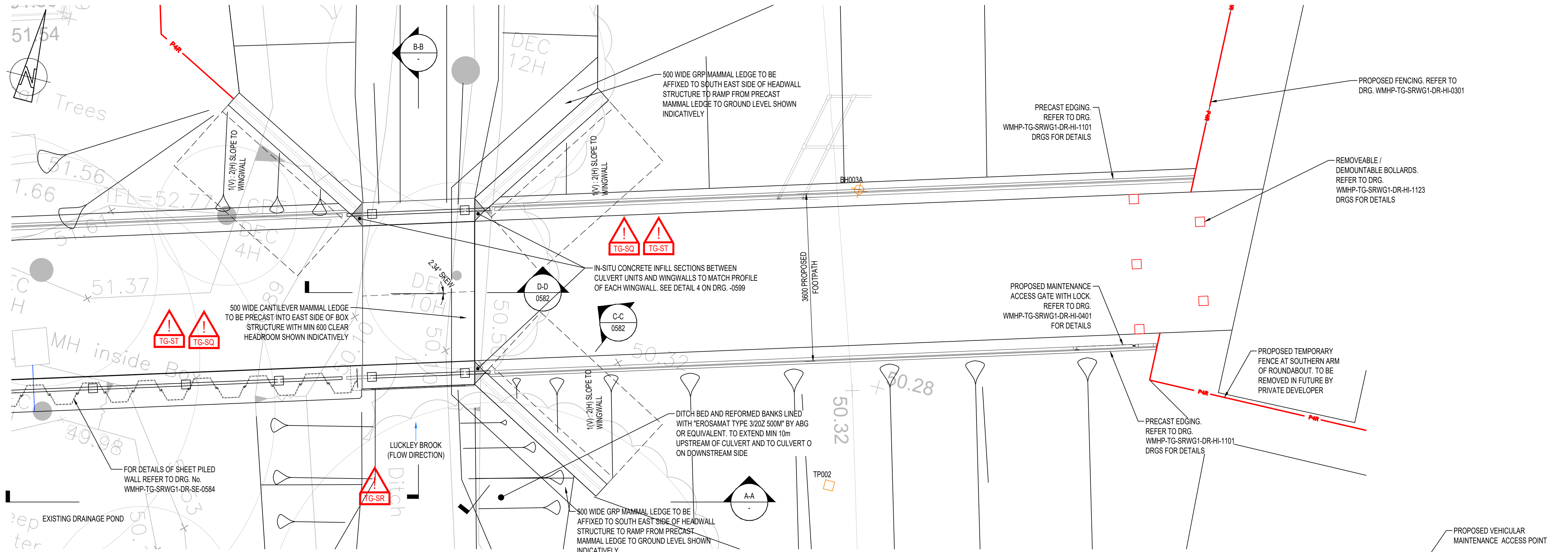


File name: P:\BOLDATA\PROJECTS\2018\21\1807\BOLDATA\WIP\DRAWINGS\WHP-TG-SRWG1-DR-SE-0581.DWG, printed on 24 January 2024 13:26:53, by Matt Hallon



| SIGNIFICANT RESIDUAL HAZARDS                                                                                                                                                                                                                                                                    |       |                                                                                                                                                                                                                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RESIDUAL HAZARD                                                                                                                                                                                                                                                                                 | STAGE | SUGGESTED CONTROL MEASURE                                                                                                                                                                                                                                                             |
| ACCESS INSIDE BOX CULVERTS - WORKING IN / AROUND WATER                                                                                                                                                                                                                                          | M     | REMOTE METHODS OF INSPECTION TO BE USED AS FIRST METHOD. ENTRY TO ONLY OCCUR WHERE ABSOLUTELY NECESSARY. WATER ISOLATION METHODS (E.G. TEMPORARY DAM) TO BE CONSIDERED IN CONJUNCTION WITH LOW FLOW WARM, DRY WEATHER CONDITIONS, WITH EMERGENCY RESCUE PLAN READY TO BE IMPLEMENTED. |
| POSSIBLE PRESENCE OF BURIED SERVICES                                                                                                                                                                                                                                                            | C/D   | C2 SEARCH RESULTS HAVE INDICATED NO SERVICES. HOWEVER, CONTRACTOR TO CONFIRM VIA LATEST STATUTORY UNDERTAKERS' SEARCHES AND SCAN AREA PRIOR TO CONSTRUCTION. SEE NOTE 7                                                                                                               |
| WORKING ADJACENT TO STREAM AND POTENTIALLY IN GROUNDWATER / FLOOD RISK                                                                                                                                                                                                                          | C/MO  | SUGGEST TEMPORARY DIVERSION OF EXISTING STREAM WITH TEMPORARY PUMP OR OTHER GROUNDWATER MANAGEMENT METHODS. CONTRACTOR TO MONITOR FORECASTS AND REGISTER FOR EA FLOOD ALERTS TO MANAGE RISK OF FLOODING                                                                               |
| UNEXPLODED ORDNANCE                                                                                                                                                                                                                                                                             | C/D   | 'LOW RISK' CATEGORY IDENTIFIED BY '1ST LINE DEFENCE' DESK STUDY BA. UXO RISK MANAGEMENT PLAN AND SITE SPECIFIC UXO AWARENESS BRIEFINGS TO BE GIVEN TO ALL PERSONNEL CONDUCTING INTRUSIVE WORKS                                                                                        |
| NOTE: The above hazards do not include every hazard or assumption, but identify significant residual construction hazards that are not likely to be obvious to a competent contractor and those that could be difficult to manage effectively. Refer also to the designer's risk documentation. |       |                                                                                                                                                                                                                                                                                       |

DO NOT SCALE

NOTES:

- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
- ALL LEVELS ARE IN METRES AOD UNLESS NOTED OTHERWISE.
- CULVERT UNITS TO BE CE-MARKED (OR UKCA WHEN IN FORCE) TO BS EN 14844 WITH SPIGOT AND SOCKET JOINTING BETWEEN UNITS. PRECAST WINGWALL UNITS TO BE CE-MARKED TO BS EN 15268. UNITS TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. DESIGN SHALL BE IN ACCORDANCE WITH THIS DRAWING, DRAWINGS WMHP-TG-SRWG1-DR-SE-0582, -0584, -0585, -0599 AND THE AIP WMHP-TG-SRWG1-RP-SE-0581. REFER TO DRG. -SE-0599 FOR STANDARD DETAILS AND DD-0534 FOR LOCATION PLAN.
- FORMATION LEVEL TO BE INSPECTED AND ANY SOFT AREAS (WHERE UNDRAINED SHEAR STRENGTH  $C_u < 30$  kPa) TESTED IN ACCORDANCE WITH EARTHWORKS SPECIFICATION WMHP-TG-SRWG1-SP-GE-0601 WITH HAND SHEAR VANE TESTING. SOFT AREAS TO BE DUG AND REPLACED WITH MIN 300 THK CLASS 6A SELF-COMPACTING GRANULAR FILL WHERE WORKING IN GROUND WATER, OTHERWISE CLASS 1 GRANULAR FILL TO EARTHWORKS SPECIFICATION WMHP-TG-SRWG1-SP-GE-0601 GENERALLY. THIS IS TO BE OVERLAIN BY 300 THK CLASS 6A (OR CLASS 1 IF DRY) BEDDING TO CULVERT.
- SPRAY-APPLIED WATERPROOFING TO COMPLY WITH APPENDIX 20/1 WMHP-TG-WOFTF-SP-SE-2000. WATERPROOFING TERMINATION DETAIL TO BE IN ACCORDANCE WITH SUPPLIERS INSTRUCTIONS. TERMINATION AT TAPED EDGE ASSUMED. FORMED 'F3' MOULD FINISH TO BE WATER-JETTED IN ACCORDANCE WITH SHW 1708.4 TO ACHIEVE U4 FINISH PRIOR TO WATERPROOFING APPLICATION.
- TYPICAL WATER LEVEL TAKEN FROM CHANNEL SURVEY CARRIED OUT BY MURPHY SURVEYS ON 05/04/2015, DRG. REF. 11868. REACH B. WORKINGH. XS. 2 DATED 17/04/15. COMMISSIONED BY WSP. 1 IN 100 YEAR FLOOD LEVEL BASED ON FLOOD MODELLING BY WSP SHOWN ON DRG. 66439-CUL-001 REV A, DATED 30/09/20.
- EXISTING UTILITIES INFORMATION TAKEN FROM WSP DRAWING WMHP-WSP-SR-UT-0001 BASED ON C2 SEARCH INFORMATION SUGGESTS THERE ARE NO EXISTING UTILITIES IN THIS AREA. THE CONTRACTOR SHALL UNDERTAKE FURTHER SURVEYS, SCANS AND TRIAL HOLES TO CONFIRM AND LOCATE UTILITIES PRIOR TO CONSTRUCTION. SEE HAZARD TG-SQ.
- EXISTING BACKGROUND INFORMATION TAKEN FROM SURVEY FILE 'XTOPUSURVEY' BY MURPHY SURVEYS, COMMISSIONED BY WSP. SUPPLIED BY WBC, AND FILE 'XTOPU\_ALL' SUPPLIED BY WSP. EMM BROOK INFORMATION IN LOCATION OF CULVERT TAKEN FROM SURVEY FILE 'SD20583-01\_Emm Brook\_Topo 3D\_FINAL' BY TECHINICS. CONTRACTOR TO VERIFY SURVEY ACCURACY PRIOR TO CONSTRUCTION.
- GEOTECHNICAL INVESTIGATION EXPLORATORY REFS. BASED ON SOCOTEC REPORT 'SOUTH WOKINGHAM DISTRIBUTOR ROAD - SPINE ROAD AND WESTERN GATEWAY PHASE 1, WOKINGHAM - FACTUAL REPORT ON GROUND INVESTIGATION' (REF. D0006-20, DATED FEB 2021).

KEYPLAN

SWDR - WESTERN GATEWAY PHASE 2

SWDR - SPINE ROAD AND WESTERN GATEWAY PHASE 1

|     |            |    |                                              |     |     |
|-----|------------|----|----------------------------------------------|-----|-----|
| P06 | 26/01/2024 | MH | REVISED FOR PLANNING DISCHARGE               | DJF | JC  |
| P05 | 02/06/2022 | HD | MATTERS OUTSTANDING WMHP-TG-SRWG1-RG-DM-0010 | BH  | JC  |
| P04 | 19/10/2021 | WA | DETAILED DESIGN TAA COMMENTS ADDRESSED       | KL  | CMF |
| REV | DATE       | BY | DESCRIPTION                                  | CHK | APP |

DRAWING STATUS: SUITABLE FOR REVIEW & COMMENT S3

DESIGNER:

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PROJECT: WOKINGHAM MAJOR HIGHWAYS PROGRAMME  
SPINE ROAD AND WESTERN GATEWAY PHASE 1

TITLE: CULVERT N - LUCKLEY BROOK  
STRUCTURE REFERENCE: 3104  
GENERAL ARRANGEMENT SHEET 1

|                          |             |           |
|--------------------------|-------------|-----------|
| SCALE @ A1:              | CHECKED:    | APPROVED: |
| AS SHOWN                 | KL          | CMF       |
| PROJECT NO:              | DESIGNED:   | DRAWN:    |
| C118047                  | VIA         | TCH       |
| DRAWING NO:              | DATE:       | REV:      |
| WMHP-TG-SRWG1-DR-SE-0581 | February 21 | P06       |