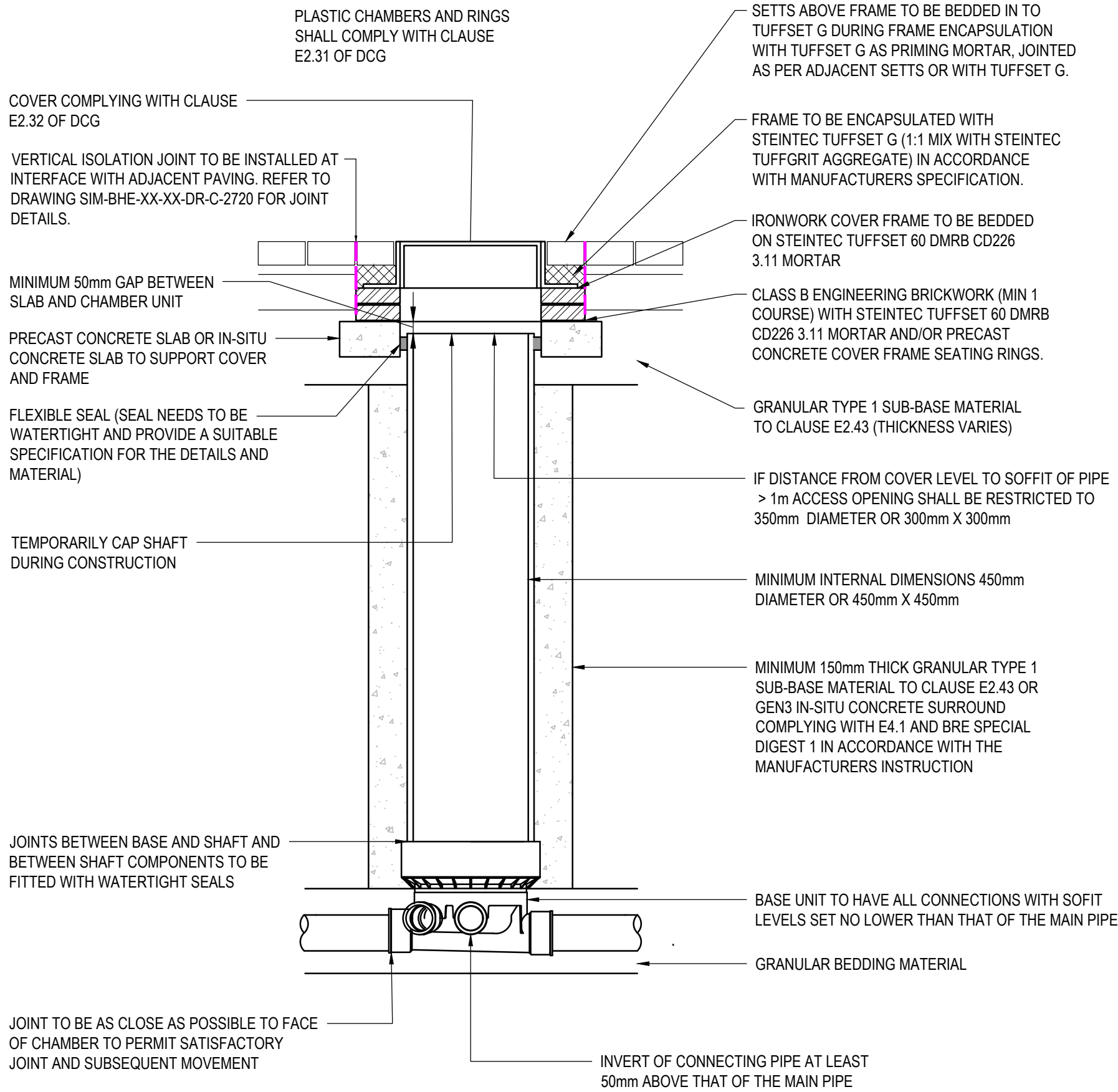


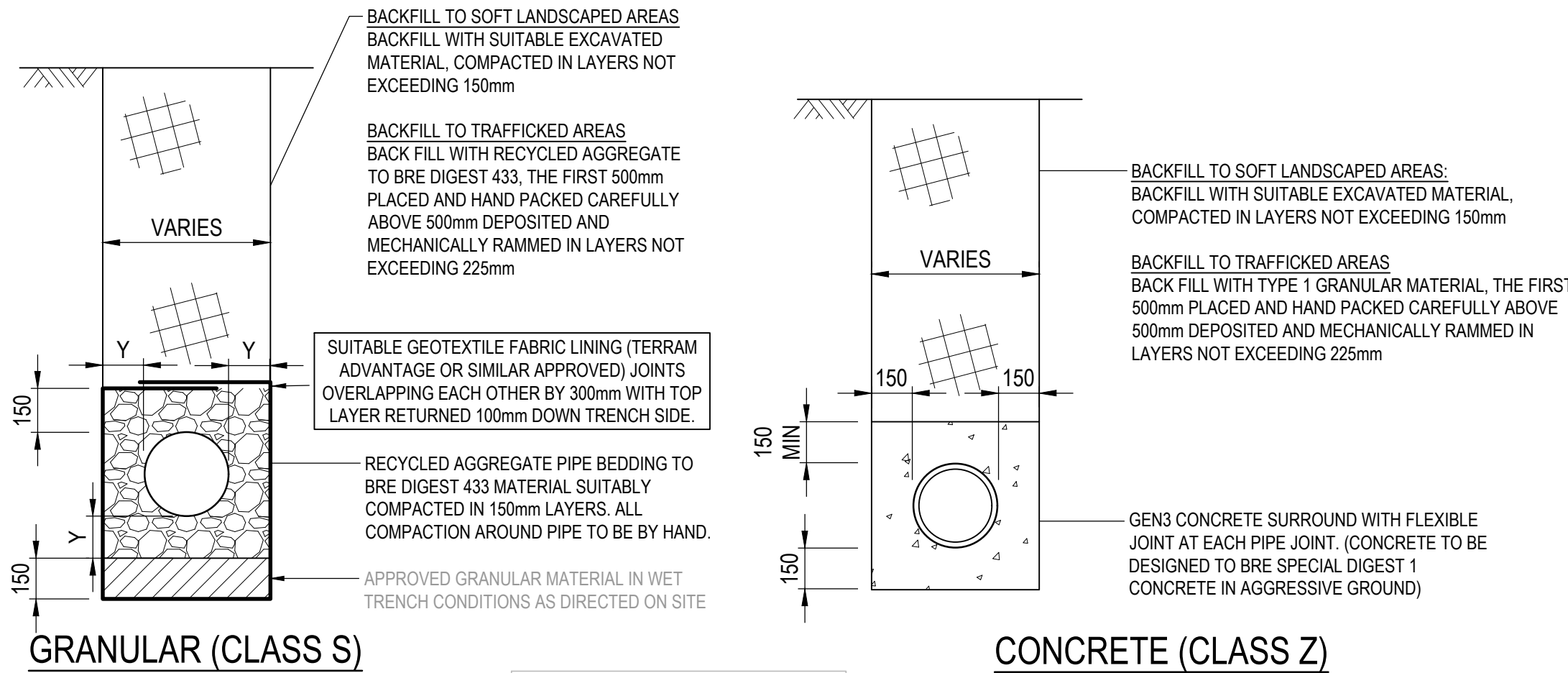


NOTE: WHERE THE ACCESS CHAMBER IS IN THE HIGHWAY (INCLUDING ANY FOOTWAY), THE HIGHWAY AUTHORITY CAN HAVE SPECIFIC REQUIREMENTS

### TYPICAL INSPECTION CHAMBER DETAIL - TYPE D (FLEXIBLE MATERIAL DETAIL)

DEPTH FROM COVER LEVEL TO SOFFIT OF PIPE UP TO 3 m  
FLEXIBLE MATERIAL CONSTRUCTION FOR USE IN AREAS SUBJECT TO VEHICLE LOADING

NOT TO SCALE



>1200mm DEPTH TO SOFFIT IN ROADS AND PAVEMENTS

DIMENSION 'Y' TO BE 100mm MIN. UNLESS OTHERWISE SPECIFIED OR DIRECTED BY THE ENGINEER

FOR ADOPTABLE SEWER, GRANULAR SURROUND MIN. THICKNESS OF 300 ABOVE CROWN OF PIPES.

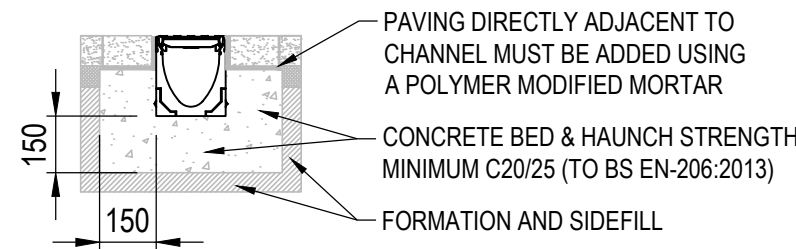
FOR BEDDING DETAILS AND SPECIFICATIONS FOR PLASTIC PIPES AND PRODUCTS REFER TO MANUFACTURER REQUIREMENTS MAKING CONSIDERING FOR:

- LOADING
- LOCATION
- GROUND CONDITIONS
- TYPES OF LIQUIDS BEING CONVEYED (CHEMICALS AND TEMPERATURE)
- ANY OTHER SITE SPECIFIC REQUIREMENTS

### CONCRETE (CLASS Z)

<1200mm DEPTH TO SOFFIT IN ROADS AND PAVEMENTS

ALL JOINTS IN CLASS Z BEDDING SHOULD BE SURROUNDED BY COMPRESSIBLE FILLER BOARD (THICKNESS 18mm) TO ENSURE THE PIPE REMAINS FLEXIBLE.



### ACO MULTIDRAIN M100D 0.0 CHANNEL DRAINAGE INSTALLATION

SCALE 1:20

| PIPE DIA. | GRANULAR BEDDING |         |         | MIN. TRENCH WIDTH | MAX. TRENCH WIDTH | L  |
|-----------|------------------|---------|---------|-------------------|-------------------|----|
|           | Y1 MIN.          | Y2 MIN. | Y3 MIN. |                   |                   |    |
| 100       | 100              | 200     | 150     | 450               | 750               | 18 |
| 150       | 100              | 200     | 150     | 500               | 800               |    |
| 225       | 100              | 200     | 150     | 600               | 900               |    |
| 300       | 100              | 200     | 150     | 700               | 1000              |    |
| 375       | 100              | 200     | 150     | 805               | 1105              |    |
| 450       | 150              | 200     | 150     | 890               | 1190              | 36 |
| 525       | 150              | 200     | 150     | 975               | 1275              |    |
| 600       | 150              | 200     | 150     | 1075              | 1375              |    |
| 675       | 150              | 200     | 225     | 1165              | 1465              |    |
| 750       | 225              | 300     | 225     | 1260              | 1560              |    |
| 825       | 225              | 300     | 225     | 1355              | 1655              |    |
| 900       | 225              | 300     | 225     | 1460              | 1760              |    |
| 975       | 225              | 300     | 300     | 1505              | 1805              |    |
| 1050      | 225              | 300     | 300     | 1580              | 1880              |    |
| 1125      | 225              | 350     | 300     | 1650              | 1950              |    |
| 1200      | 375              | 400     | 300     | 1750              | 2050              | 54 |
| 1350      | 375              | 400     | 375     | 1920              | 2220              |    |
| 1500      | 375              | 450     | 375     | 2040              | 2340              |    |
| 1650      | 375              | 500     | 450     | 2210              | 2510              |    |
| 1800      | 375              | 500     | 450     | 2390              | 2690              |    |

### DIMENSIONS FOR BEDDINGS AND TRENCH WIDTHS

|                                                                                                                                                                                                                                                                                                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
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| HEALTH AND SAFETY INFORMATION                                                                                                                                                                                                                                                                                      |
| IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING                                                                                                                                                                                           |
| CONSTRUCTION                                                                                                                                                                                                                                                                                                       |
| <ul style="list-style-type: none"><li>WORKS IN PROXIMITY TO LIVE SERVICES</li><li>POSSIBLE PRESENCE OF CONTAMINATION FROM HISTORIC INDUSTRIAL USE</li><li>PRESENCE OF CULVERTS &amp; VOIDS FROM HISTORIC INDUSTRIAL USE</li><li>UNKNOWN CONDITION &amp; STRUCTURAL CAPACITY OF SLAB ATOP STATION VIADUCT</li></ul> |
| MAINTENANCE/CLEANING/OPERATION                                                                                                                                                                                                                                                                                     |
| <ul style="list-style-type: none"><li>WORKS IN PROXIMITY TO LIVE SERVICES</li><li>WORKS INTERFACE WITH THE PUBLIC</li></ul>                                                                                                                                                                                        |
| DECOMMISSIONING/DEMOLITION                                                                                                                                                                                                                                                                                         |
| <ul style="list-style-type: none"><li>WORKS IN PROXIMITY TO LIVE SERVICES</li><li>WORKS INTERFACE WITH THE PUBLIC</li></ul>                                                                                                                                                                                        |

- NOTES:
- ALL DIMENSIONS ARE IN METRES UNLESS STATED OTHERWISE.
  - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS, DETAILS AND SPECIFICATIONS.
  - ALL DRAINAGE SHALL BE CONSTRUCTED IN ACCORDANCE WITH BS EN 752 DRAINS AND SEWERS OUTSIDE BUILDINGS, THE CURRENT LOCAL BUILDING REGULATIONS AND TO THE SATISFACTION OF THE WATER AUTHORITY / BUILDING CONTROL OR SPECIFIC REQUIREMENTS OF THE CLIENT IF APPLICABLE.
  - BURIED CONCRETE, INCLUDING PRECAST CONCRETE TO BE DESIGNED TO BRE DIGEST 1. CONCRETE IN AGGRESSIVE GROUND, SULPHATE RESISTING CEMENT SHALL BE USED UNLESS AN ALTERNATIVE IS AGREED WITH THE SUPERVISING OFFICER/ENGINEER.
  - FOR DESIGNED, DESIGNATED OR STANDARDISED PRESCRIBED CONCRETE REFER TO BS EN 206-1 AND BS 8500. THEY SHALL HAVE A 20mm NOMINAL MAXIMUM SIZE OF AGGREGATE, AND A SLUMP CLASS S2 FOR TARGET 70mm AND NO ADMIXTURES.
  - ALL PIPES SHALL BE LAID SOFFIT TO SOFFIT UNLESS STATED OTHERWISE ON THE MANHOLE SCHEDULE.
  - MANHOLES & COVER SLABS TO BS EN 1917 AND BS 5911-3. PREFORMED SWEEP CHANNELS SHALL BE USED AT JUNCTIONS AND NO BRANCH SHALL ENTER AT LESS THAN 90 DEGREES FROM THE OUTGOING SEWER.
  - MANHOLE COVERS, INSPECTION CHAMBERS AND GRATINGS TO CHANNEL DRAINS AND GULLIES TO BE D400 TO BS EN 124 UNLESS OTHERWISE STATED.
  - ALL PROPRIETARY PRODUCTS ARE TO BE INSTALLED STRICTLY IN ACCORDANCE WITH THE MANUFACTURERS REQUIREMENTS AND SPECIFICATION.

|     |                    |            |       |       |       |
|-----|--------------------|------------|-------|-------|-------|
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| P01 | ISSUED FOR STAGE 3 | 06.02.2025 | LW    | FR    | MW    |
| Rev | Description        | Date       | Iss'd | Rev'd | App'd |

## STAGE 3

Project Stage

## INFORMATION

Status of Drawing

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Drg Title DRAINAGE DETAILS  
LOWER BYROM STREET GATEWAY

Job No. 0054704  
Scale: A1  
N.T.S.

Drawn/Designed By: LD  
Checked By: FR  
Approved By: FR

Drawing No. SIM-BHE-XX-XX-DR-C-3710  
Revision P02