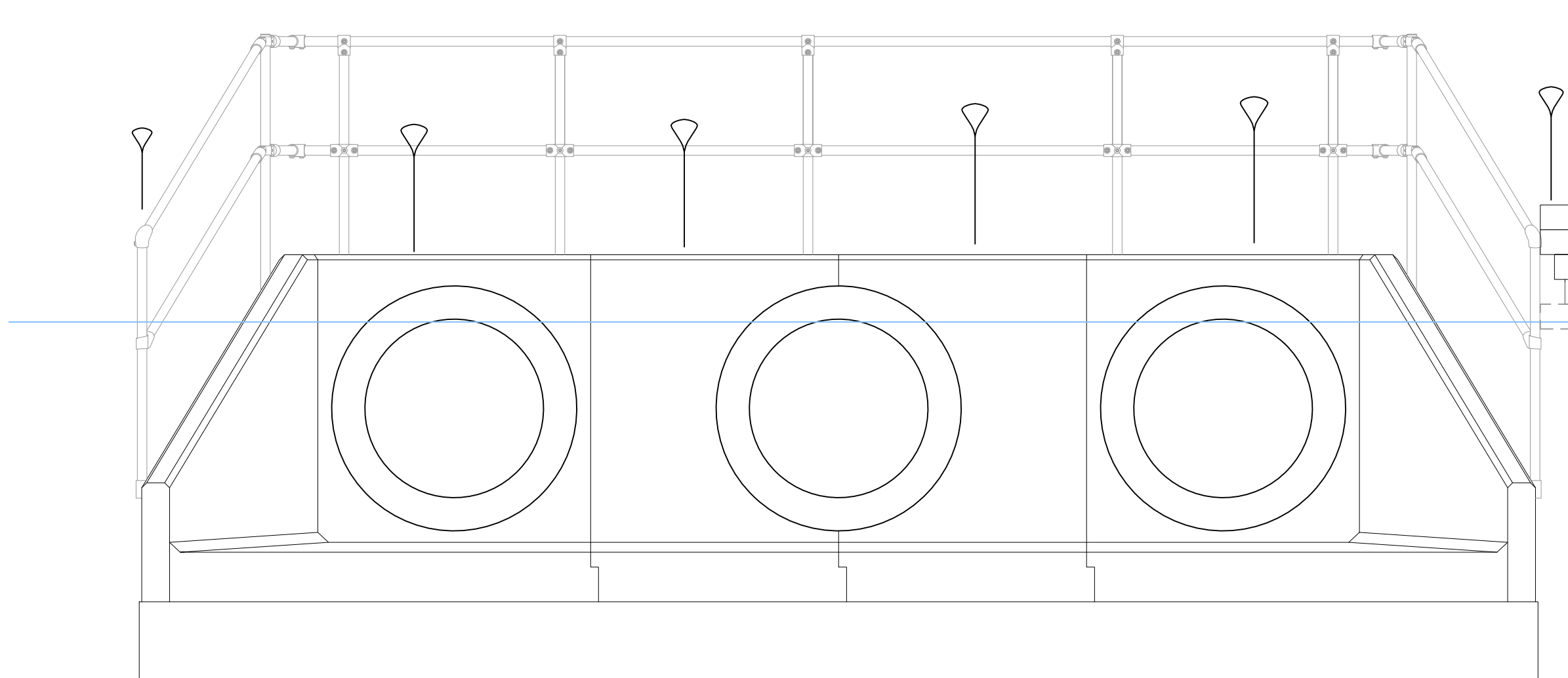
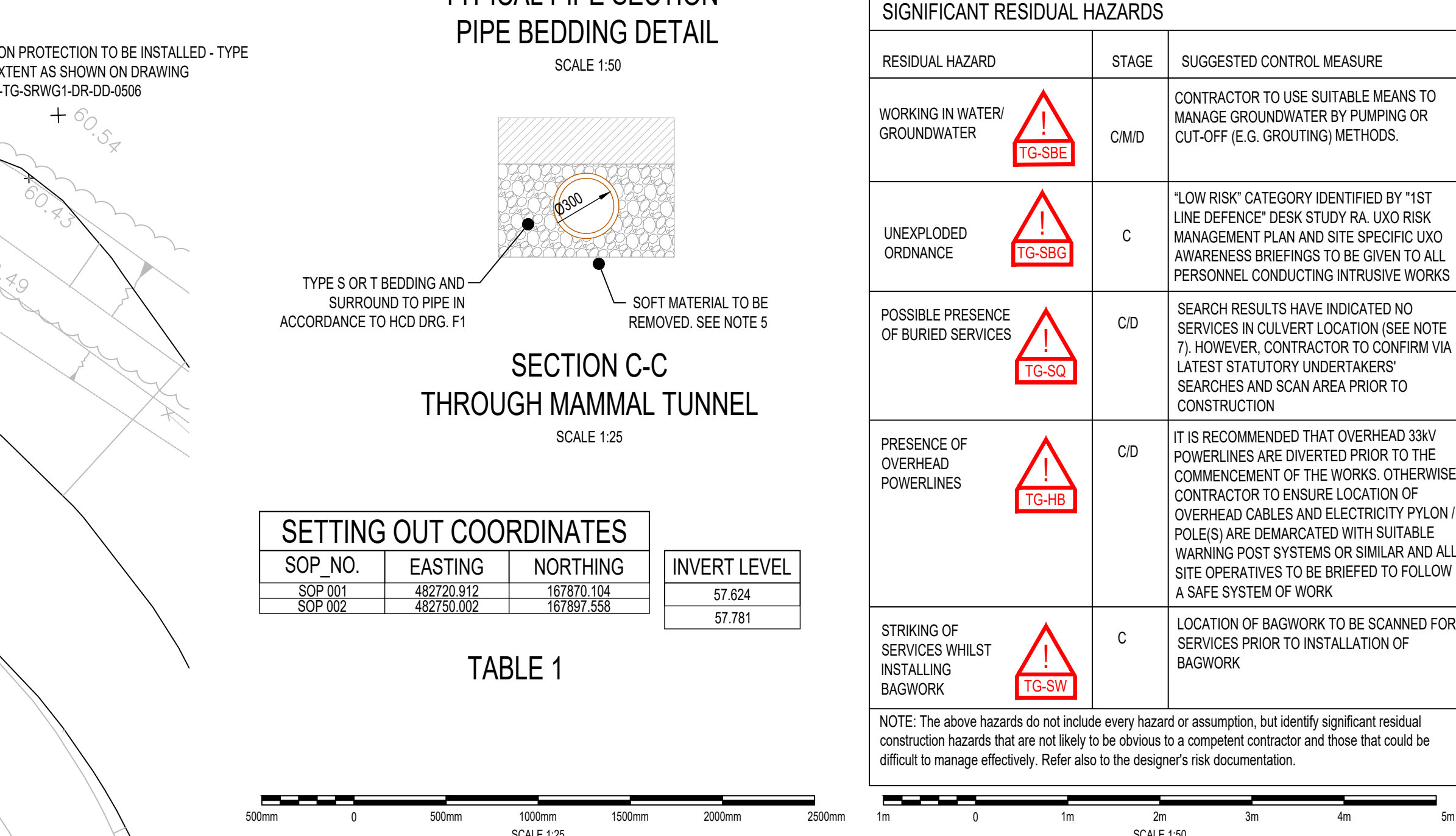
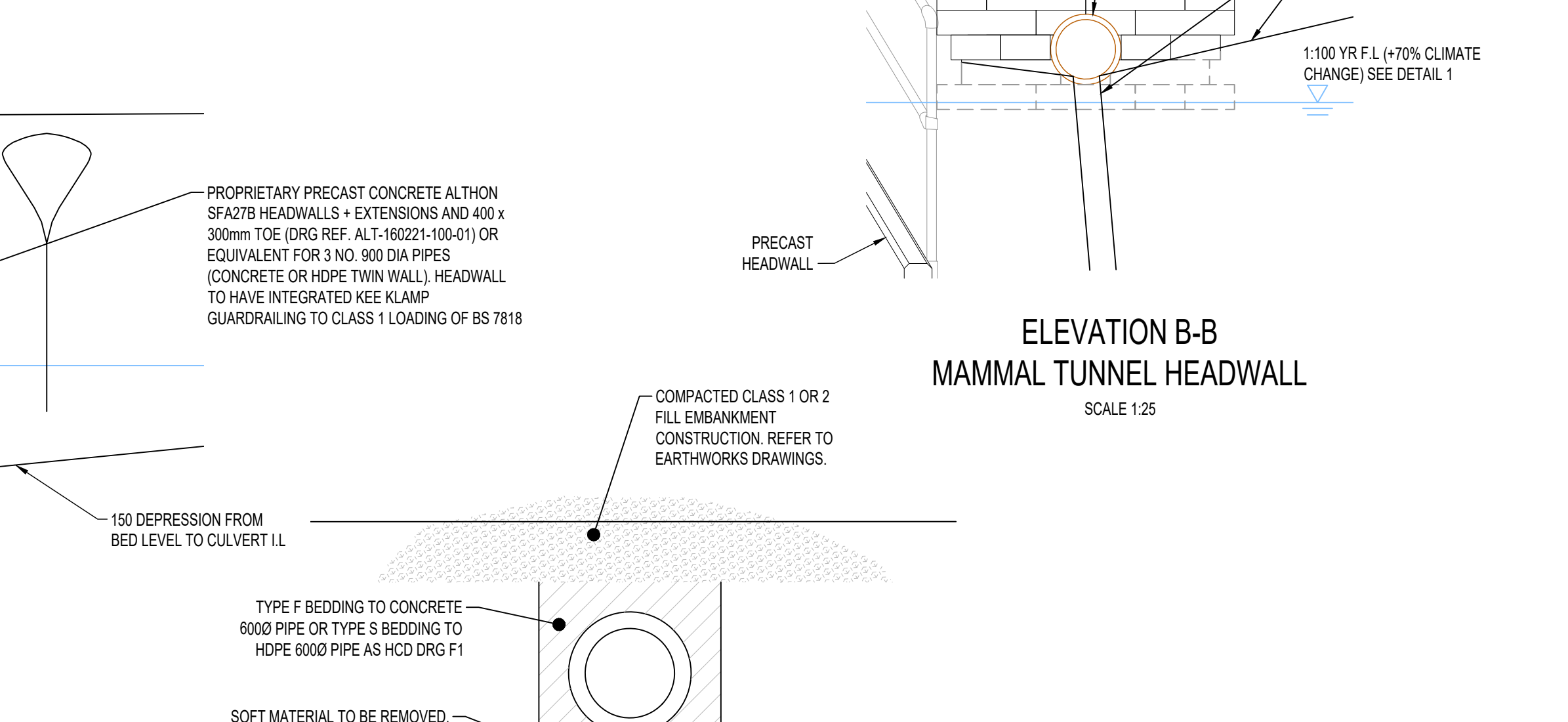
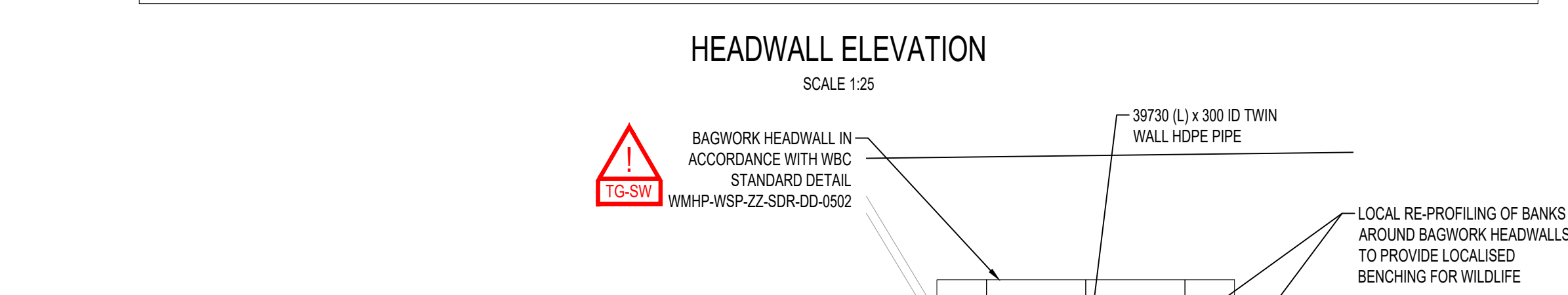




DO NOT SCALE

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. ALL LEVELS ARE IN METRES ADJ UNLESS NOTED OTHERWISE.
3. CONCRETE PIPES TO BE CE-MARKED TO BS EN 1916. PIPES TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
4. PRECAST HEADWALLS TO BE DESIGNED BY PRECASTER BASED ON BS EN 1992-1-4 AND SHALL BE IN ACCORDANCE WITH BS EN 13369.
5. FORMATION LEVEL TO BE INSPECTED AND ANY SOFT AREAS (WHERE UNDRAINED SHEAR STRENGTH $C_u < 10$ kPa) INSPECTED IN ACCORDANCE WITH EARTHWORKS SPECIFICATION WMHP-DR-SRWGI-SP-0601 TO BE REPLACED WITH HAND SHEAR VANE TESTING. SOFT AREAS TO BE DUG AND REPLACED WITH MIN 300 THK CLASS 5 SELF-COMPACTING GRANULAR FILL WORKING IN GROUND WATER, OTHERWISE CLASS 1 GRANULAR FILL TO EARTHWORKS SPECIFICATION WMHP-DR-SRWGI-SP-GE-0601 GENERALLY.
6. IN 100 YEAR FLOOD LEVEL BASED ON FLOOD MODELLING BY WSP SHOWN ON DRG. 66439-CUL-001 REV A. DATED 30/09/20.
7. EXISTING UTILITIES INFORMATION TAKEN FROM WSP DRAWING WMHP-WSP-SR-DR-UT-0001 BASED ON C2 SEARCH INFORMATION. THE CONTRACTOR SHALL UNDERTAKE FURTHER SURVEYS, SCANS AND TRIAL HOLES TO CONFIRM AND LOCATE UTILITIES PRIOR TO CONSTRUCTION. SEE RESIDUAL HAZARDS TG-SO AND TG-HB.
8. EXISTING BACKGROUND INFORMATION TAKEN FROM SURVEY FILE "XTOPSURVEY.DWG" BY MEMPHYS SURVEYS, COMMISSIONED BY WSP, SUPPLIED BY WBC. FILE "XTOP.dwg", ALL SUPPLIED BY WSP AND "SD1630-024-Spine Road and Western Gateway_30_Top_FINAL" BY TECHNICS, COMMISSIONED BY BB. CONTRACTOR TO VERIFY SURVEY ACCURACY PRIOR TO CONSTRUCTION.
9. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRAWING WMHP-DR-SRWGI-DR-DO-0535 FOR KEY PLAN AND MAINTENANCE ACCESS POINT.
10. REFER TO DRG. WMHP-DR-SRWGI-DR-DO-0534 FOR LOCATION PLAN



RESIDUAL HAZARD	STAGE	SUGGESTED CONTROL MEASURE
WORKING IN WATER/ GROUNDWATER 	C/M/D	CONTRACTOR TO USE SUITABLE MEANS TO MANAGE GROUNDWATER BY PUMPING OR CUT-OFF (E.G. GROUTING) METHODS.
UNEXPLODED ORDNANCE 	C	"LOW RISK" CATEGORY IDENTIFIED BY "1ST LINE DEFENCE" DESK STUDY RA. UXO RISK MANAGEMENT PLAN AND SITE SPECIFIC UXO AWARENESS BRIEFINGS TO BE GIVEN TO ALL PERSONNEL CONDUCTING INTRUSIVE WORKS
POSSIBLE PRESENCE OF BURIED SERVICES 	C/D	SEARCH RESULTS HAVE INDICATED NO SERVICES IN CULVERT LOCATION (SEE NOTE 7). HOWEVER, CONTRACTOR TO CONFIRM VIA LATEST STATUTORY UNDERGROUND SEARCHES AND SCAN AREA PRIOR TO CONSTRUCTION
PRESENCE OF OVERHEAD POWERLINES 	C/D	IT IS RECOMMENDED THAT OVERHEAD 33KV POWERLINES ARE DIVERTED PRIOR TO THE COMMENCEMENT OF THE WORKS. OTHERWISE CONTRACTOR TO ENSURE LOCATION OF OVERHEAD CABLES AND ELECTRICITY PYLON / POLE(S) ARE DEMARCATED WITH SUITABLE WARNING POST SYSTEMS OR SIMILAR AND ALL SITE OPERATIVES TO BE BRIEFED TO FOLLOW A SAFE SYSTEM OF WORK
STRIKING OF SERVICES WHILST INSTALLING BAGWORK 	C	LOCATION OF BAGWORK TO BE SCANNED FOR SERVICES PRIOR TO INSTALLATION OF BAGWORK

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.

SETTING OUT COORDINATES			INVERT LEVEL
SOP_NO.	EASTING	NORTHING	
SOP 001	482720.912	167870.104	57.624
SOP 002	482750.002	167897.558	57.781

P04	18/05/2025	AJP	UPDATED FOR PLANNING CONDITION DISCHARGE	DJF	JC
P03	02/06/2022	HD	MATTERS OUTSTANDING WMHP-TG-SRWG1-RG-DM-0010	BH	JC
P02	09/08/2021	BPH	DETAILED DESIGN	KL	JC
P01	01/08/2021	BN	CONCEPTUAL DESIGN	KL	JC

DRAWING STATUS:	SUITABLE FOR APPROVAL	S5
DESIGNER:	 Tony Gee Consulting Civil, Structural and Geotechnical Engineers	
	Tony Gee and Partners LLP Hardy House 140 High Street Esher, Surrey KT10 9QJ Tel: 01372 461600 www.tonygee.com	

Balfour Beatty

CLIENT:



WOKINGHAM
BOROUGH COUNCIL

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

TITLE: PIPE CULVERT B -
UPPER EMM BROOK TRIBUTARY
DITCH DIVERSION

SCALE @ A1:	N/A	CHECKED:	KL	APPROVED:	CMF
PROJECT NO:	C118047	DESIGNED:	WA	DRAWN:	BPH
DRAWING No:				May 21	REV:
WMHP-TG-SRWG1-DR-DD-0536					P04