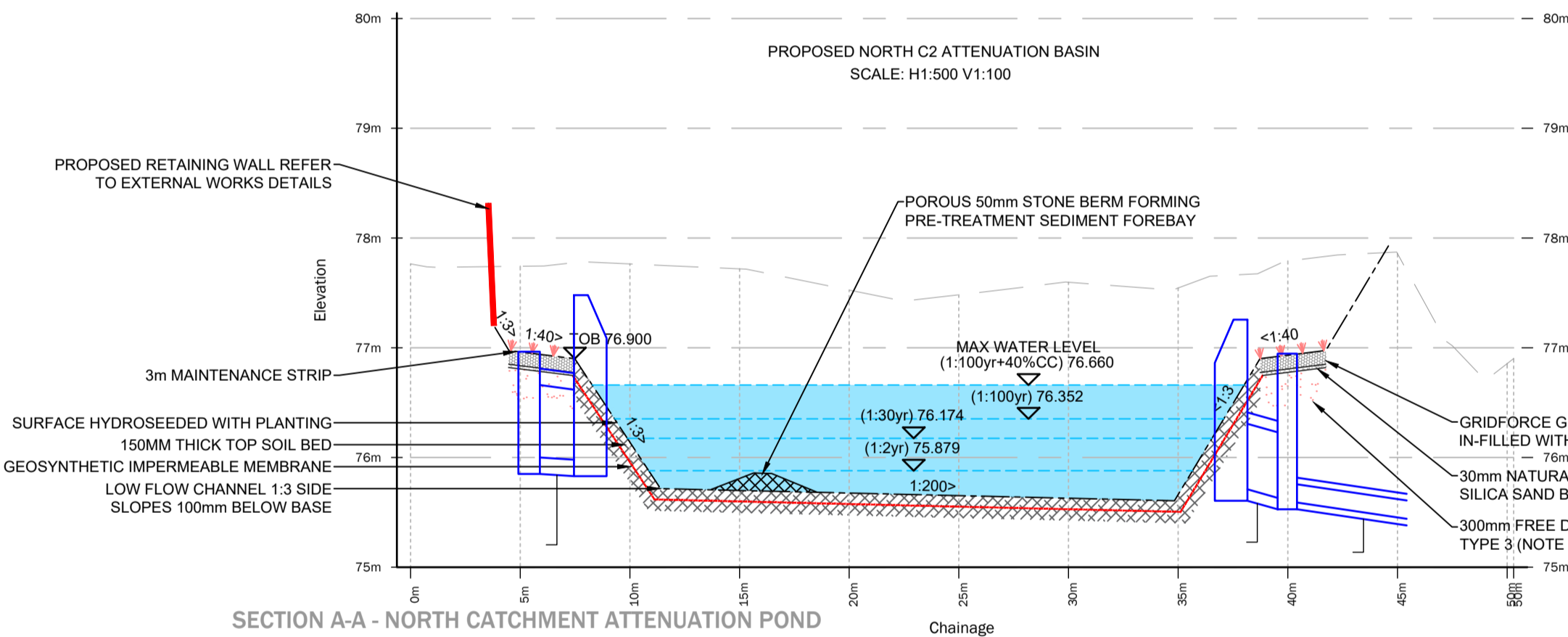
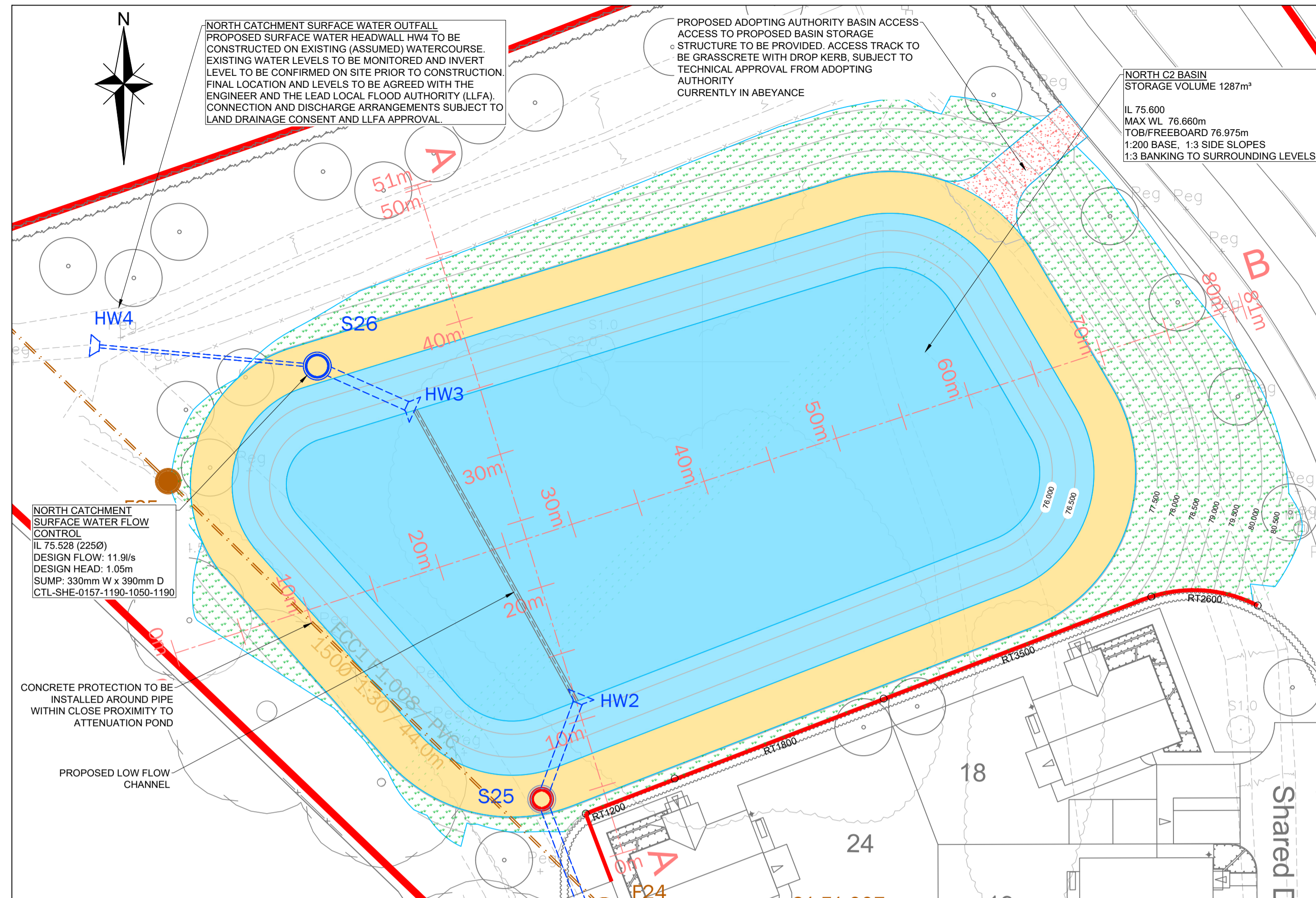


DO NOT SCALE FROM THIS DRAWING

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER HBL DRAWINGS ISSUED FOR THIS PROJECT

- ADAPTABLE DRAINAGE NOTES:**
- THIS DRAWING IS SUBJECT TO APPROVAL BY LOCAL AUTHORITY, BUILDING CONTROL AND/OR SEWERAGE UNDERTAKER. ANY WORKS UNDERTAKEN PRIOR TO THE GRANTING OF THESE APPROVALS IS CARRIED OUT AT AT RISK TO OTHERS.
 - PRIOR TO COMMENCING WORK ON THE DRAINAGE, ALL EXISTING DRAINS, SEWERS, MANHOLES AND OUTFALLS TO REMAIN SHALL BE LOCATED, IDENTIFIED AND A CCTV CONDITION SURVEY CARRIED OUT. WHERE NECESSARY, PROTECTION TO THE EXISTING DRAINAGE INFRASTRUCTURE SHALL BE PROVIDED.
 - ALL EXISTING SEWERS AND MANHOLES ABANDONED DUE TO THE PROPOSED WORKS ARE TO BE EITHER REMOVED, AND SUITABLY BACKFILLED OR GROUTED UP.
 - ALL MANHOLE COVERS TO COMPLY WITH BS EN 124, AND BE KITEMARKED.
 - COVER LEVELS FOR MANHOLES ARE APPROXIMATE ONLY AND SHOULD BE ADJUSTED TO MATCH SURROUNDING LEVELS.
 - IN BLOCK PAVED AREAS 'INFILL' TYPE COVERS SHOULD NOT BE USED, AND FRAMES MUST BE 150MM DEEP.
 - ALL MANHOLE AND DRAINAGE COVERS SHALL COMPLY WITH BS EN 124, BS EN 13598-1 AND H410409. COVER STRENGTHS TO BE:-
CLASS E600 IN AREAS OF HEAVY LOADING.
CLASS D400 IN ALL TRAFFICKED AREAS (ROADS, HARD SHOULDER, PARKING AREAS AND SERVICES YARDS). MANHOLE COVERS ON FOUL ONLY SEWERS SHALL BE OF LOW LEAKAGE TYPES IN ORDER TO PREVENT EXCESSIVE SURFACE WATER INGRESS.
 - DRAINAGE PIPES 100MM Ø UNLESS STATED OTHERWISE. PIPES TO BE - VITRIFIED CLAY TO BS EN 295 OR CONCRETE TO BS 5911 OR UPVC PIPES TO BS EN 1452 OR THERMOPLASTIC STRUCTURED WALL PIPES COMPLYING WITH WIS 4-35-01. BSI KITEMARKED. CLASS BRMMV NOMINAL SHORT TERM RING STIFFNESS.
 - ALL SEWER PIPES 300MM DIAMETER OR LARGER, TO BE CONCRETE PIPES, TO BS 5911, UNLESS NOTED OTHERWISE.
 - ALL PIPES TO BE LAID WITH SOFFITS LEVEL, UNLESS NOTED OTHERWISE.
 - WHERE COVER TO PIPES IS LESS THAN 1200MM UNDER CARRIAGEWAY - CONCRETE BED AND SURROUND OR CONCRETE PROTECTION SLAB IS REQUIRED.
 - ALL CONCRETE TO DRAINAGE, MANHOLES BASES, SURROUNDS ETC TO BE IN ACCORDANCE WITH THE BRE SPECIAL DIGEST 1 - CONCRETE IN AGGRESSIVE GROUND. REFER TO SITE INVESTIGATION REPORT FOR SULPHATE REQUIREMENTS.
 - ALL MANHOLES, PIPE TRENCHES ETC. TO BE BACKFILLED WITH IMPORTED GRANULAR FILL TO CLASS 6F1-6F5 (CAPPING MATERIAL) TO (SHW) TABLE 6/1 & COMPACTED IN ACCORDANCE WITH TABLE 6/4.
 - ALL PIPELINES SHALL BE TESTED BOTH BEFORE AND AFTER BACKFILLING, USING EITHER AIR TEST OR WATER TEST, IN ACCORDANCE WITH BS EN 1610.
 - UPON COMPLETION OF THE DRAINAGE WORKS ALL DRAINS SHALL BE FLUSHED OUT AND CCTV SURVEYED AND SHOWN TO BE FREE OF ALL SILT AND DEBRIS AND TO HAVE NO JOINT DISPLACEMENTS OR OTHER DEFECTS. A COPY OF THE WRITTEN REPORT AND VIDEO IS TO BE FORWARDED TO THE ENGINEERS FOR COMMENT. ANY DEFECTS SHALL BE ATTRIBUTABLE TO THE CONTRACTOR FOR RECTIFICATION UNLESS INDICATED OTHERWISE BY THE CCTV REPORT AND AGREED WITH THE ENGINEERS.
 - ADAPTABLE DEMARCATION MANHOLES AND LATERAL DRAINS NEED TO BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT WATER UKWRC "SEWERAGE SECTOR GUIDANCE - APPENDIX C".
 - ALL WORKS TO SEWERS/MANHOLES BEING OFFERED FOR ADOPTION OR ON EXISTING PUBLIC SEWERS SHOULD BE IN ACCORDANCE WITH "SEWERAGE SECTOR GUIDANCE - APPENDIX C" AND THE ADOPTING WATER AUTHORITIES RECOMMENDATIONS.

- KEY - PLAN**
- SITE BOUNDARY
 - PROPOSED S104 STORM DRAINAGE
 - PROPOSED S104 FOUL DRAINAGE
- S104 DRAINAGE TO FOLLOW DESIGN AND CONSTRUCTION GUIDANCE FOR FOUL AND SURFACE WATER SEWERS OFFERED FOR ADOPTION. DETAILS PROVIDED BY WATER UK. SUBJECT TO ADOPTING AUTHORITY TECHNICAL APPROVAL.*
 CP = CATCHPIPE
 FCG = FLOW CONTROL CHAMBER
- PROPOSED CONTOURS 0.25m INTERVALS
 - EARTHWORKS TIE IN POINT TO EXISTING
 - PROPOSED ATTENUATION POND MAINTENANCE TRACK
 - PROPOSED ATTENUATION POND GRASSED
 - PROPOSED ATTENUATION POND MAXIMUM WATER LEVEL
 - PROPOSED ATTENUATION POND ACCESS

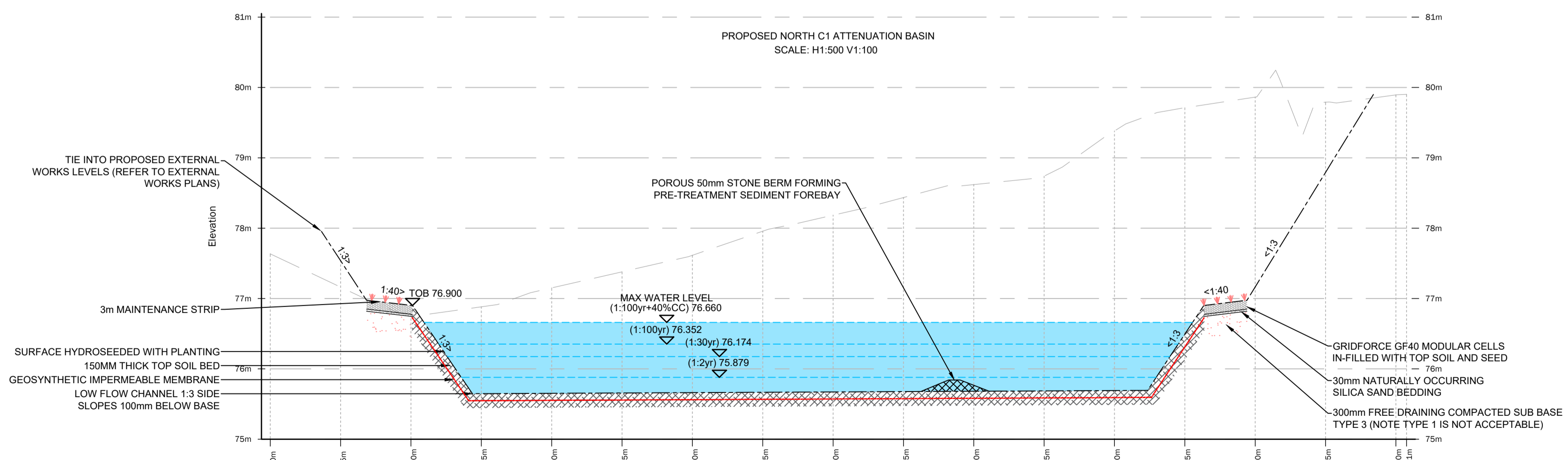


SECTION A-A - NORTH CATCHMENT ATTENUATION POND

Chainage	0m	5m	10m	15m	20m	25m	30m	35m	40m	45m	50m
EXISTING LEVELS	77.083	77.143	77.164	77.119	77.525	77.465	77.897	77.845	77.790	77.658	76.863
FINISHED LEVELS	76.962	77.143	77.164	76.699	76.675	76.662	76.628	76.641	76.932	77.658	76.863

IMPORTED TOPSOIL TO COMPLY WITH BS 2882
 GEOSYNTHETIC IMPERMEABLE MEMBRANE TO COMPLY WITH BS N 13361.
 BASIN SHOULD BE BUILT IN LINE WITH THE DESIGN AND CONSTRUCTION GUIDANCE, WITH SPECIFIC REFERENCE TO SECTION E2.45

EROSION PROTECTION SUPPLIED IN FORM OF BASE LINED RIPRAP



SECTION B-B - NORTH CATCHMENT ATTENUATION POND

Chainage	0m	5m	10m	15m	20m	25m	30m	35m	40m	45m	50m	55m	60m	65m	70m	75m	80m	85m								
EXISTING LEVELS	77.895	77.463	76.172	76.881	77.155	76.667	77.319	77.614	77.667	77.867	76.671	76.885	76.676	76.635	76.681	76.619	76.737	76.882	76.494	76.711	77.165	79.983	76.793	79.091	76.864	79.981
FINISHED LEVELS	77.536	77.463	76.903	76.881	76.662	77.319	76.662	77.614	76.667	77.867	76.671	76.885	76.676	76.635	76.681	76.619	76.686	76.882	76.494	76.711	77.165	79.983	76.793	79.091	76.864	79.981

REV.	DATE	DRAWN	DESCRIPTION	CHKD	APPRD
P03	06.03.26	SP	ISSUED FOR TECHNICAL APPROVAL	AC	RJ
P02	12.11.25	RJ	REVISED TO SUIT NEW MASTERPLAN LAYOUT	RJ	RJ
P01	06.11.25	AC	ISSUED FOR TENDER	RJ	RJ

STATUS DESCRIPTION STATUS

FOR TECHNICAL APPROVAL S4

HBL Craig House, 33 Ballbrook Avenue, Manchester M20 3JG, +44 (0)161 432 9977 | www.hbl.tld Consulting Civil & Structural Engineers

PROJECT: WOOLLEY COLLIERY

DRAWING TITLE: SECTION 104 NORTH ATTENUATION POND

CLIENT: MJ GLEESON

HBL REF. 10701	DATE 06.11.25	SCALE(S) AS SHOWN	A1
DRAWN AC	CHECKED RJ	APPROVED RJ	

DRAWING No. 10701-HBL-XX-XX-DR-C-5521 REV. P03