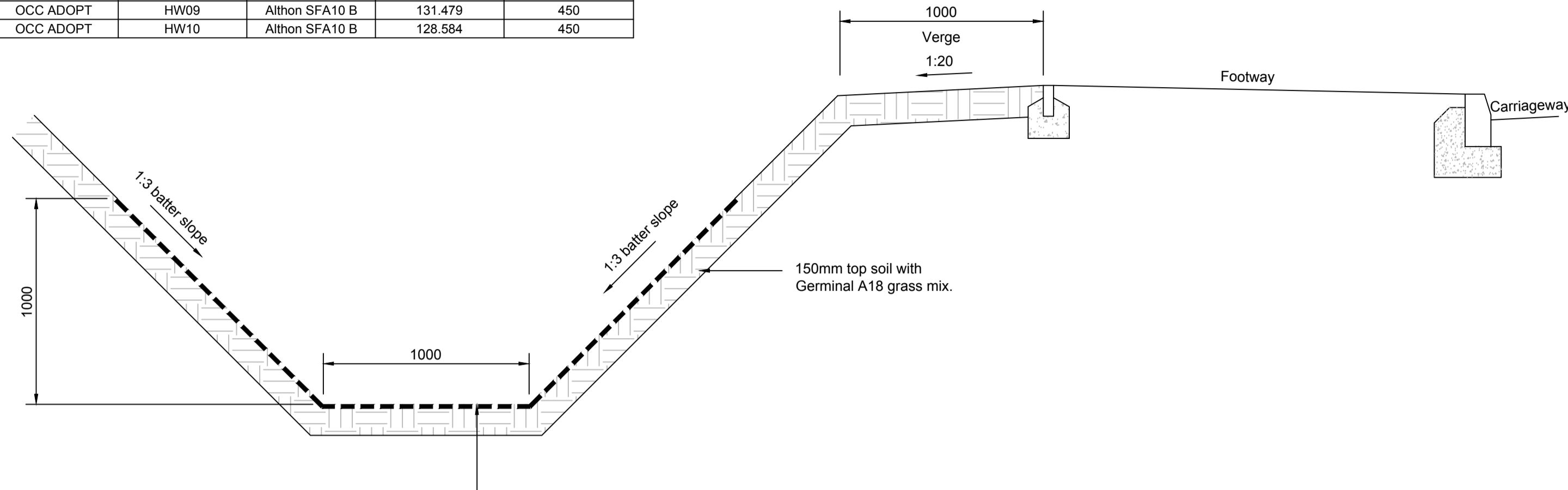


HEAD WALL SCHEDULE				
STATUS	REFERENCE	TYPE	INVERT (mAOD)	PIPE Ø (mm)
OCC ADOPT	HW01	Althon SFA10 B	128.250	375
OCC ADOPT	HW02	Althon SFA10 A	128.104	225
OCC ADOPT	HW03	Bagwork	127.460	225
OCC ADOPT	HW04	Bagwork	127.460	225
OCC ADOPT	HW05	Althon SFA10 B	127.500	450
OCC ADOPT	HW06	Bagwork	128.830	225
OCC ADOPT	HW07	Althon SFA10 D	129.634	450
OCC ADOPT	HW08	Althon SFA10 D	129.703	450
OCC ADOPT	HW09	Althon SFA10 B	131.479	450
OCC ADOPT	HW10	Althon SFA10 B	128.584	450

NOTE:
See Althon Headwall construction details for further information.

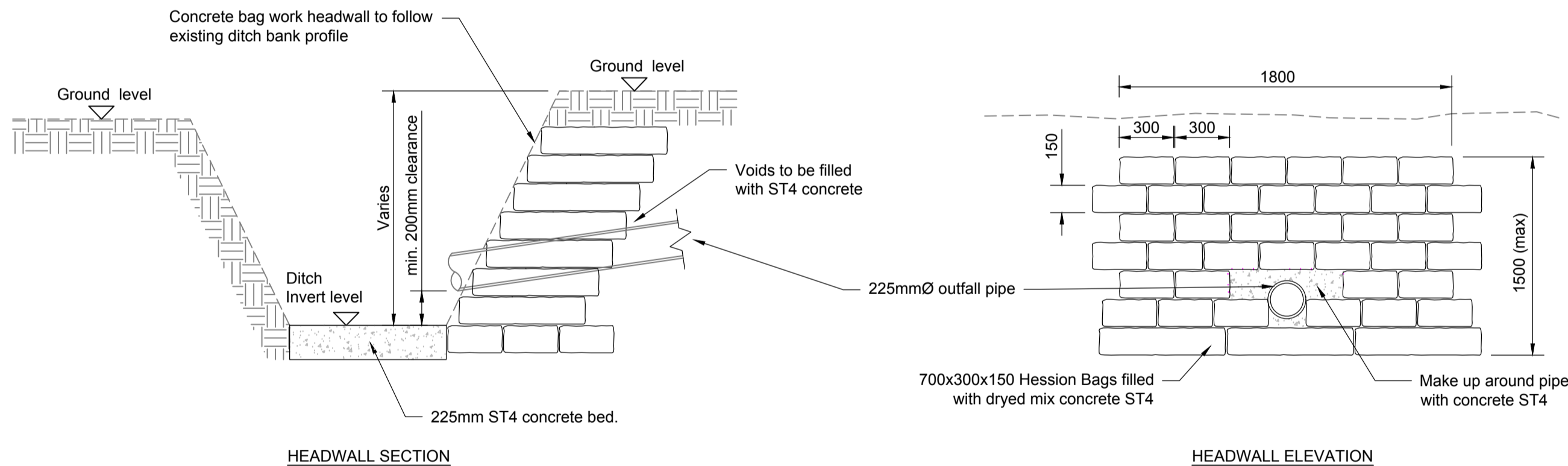


Maccacferri 'Enkamat' A20 Erosion protection matting to bed and banks. Only to be installed in areas shown in drawing number WYK-HYD-XX-XX-D-0150. Application of matting to be strictly in accordance with manufacturer's instructions.

Matting to be fixed with Ushaped ribbed, mild steel bars, 500 x 100 x 100 at a maximum spacing of 1.0m centres. Prior to laying of matting, the sub-soil is to be suitably prepared to accept seeding with grass seed at 30 g/sq.m.

HIGHWAY DITCH DETAIL

NTS



CONCRETE BAGWORK HEADWALL DETAIL

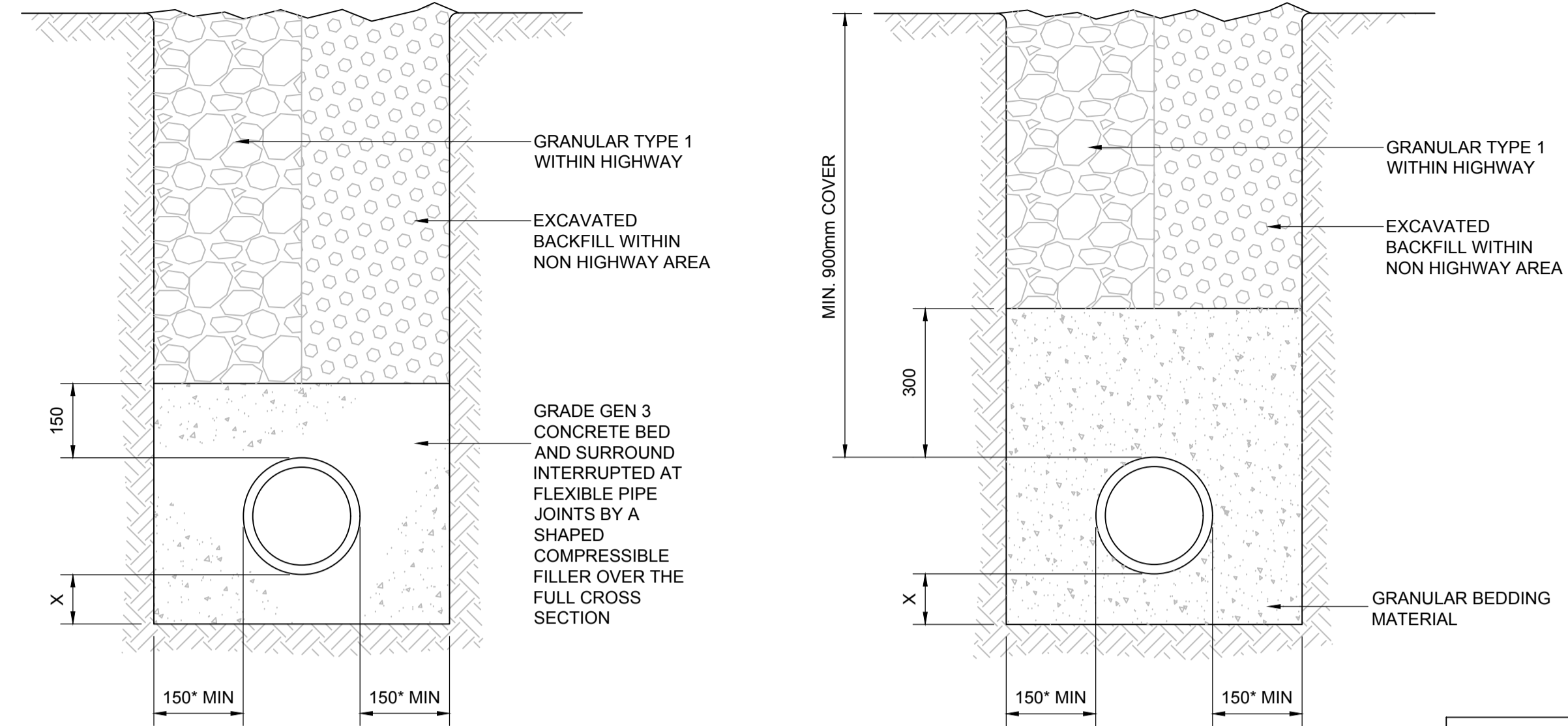
NTS

NOTES:

- ST4 concrete in compliance with Clause 2602 shall be used throughout. The concrete filling to the bags shall have a low workability with a slump of 25 mm.
- The bags shall be hessian sand bags complying with BS 1214. The size of the bags shall be such that when filled, the dimensions shall be 700 mm x 300 mm x 150 mm. The bags shall be placed in position and shaped to the profile shown on the Drawings by striking with a flat timber board until all faces are flat and all edges square.
- The finished exposed faces of the bagwork shall not be punctured or torn and no lugged ends shall be visible.
- Each concrete bag is to be spiked to the one below and the bottom row spiked to the foundation with 10 mm x 200 mm mild steel dowel bars. Where the concrete bags have a concrete backing, alternate rows of bags shall be spiked to the backing concrete with 10 mm x 200 mm mild steel dowel bars at 45 degrees to the horizontal with one dowel per bag in the row.
- Where bagwork forms a headwall, headwall foundations are to be cast against the excavated face and any overdig filled with ST4 concrete.
- Formed concrete surfaces shall be to Class F1 finish and unformed surfaces to Class U1 finish in accordance with Clause 1708.
- Where bagwork is provided to protect watercourses, before placing the bags, the banks shall be cut into horizontal steps to provide a suitable foundation and shall be covered in geotextile to the requirements of Clause 609. The bottom course of bags shall be at least 450 mm below the stream bed and all succeeding courses shall be horizontal and all vertical joints shall be staggered in alternate courses. Headers shall be placed at every third bag in alternate courses.
- The bagwork shall be thoroughly soaked with water upon completion of the construction to saturate the hessian bags.

Notes:

- All works to be carried out in accordance with Oxfordshire County Council specification.
- All materials to be laid in accordance with manufacturer's instructions subject to approval of Oxfordshire County Council.
- Contractor must comply with the NRSWA 1991 for traffic management and for any road works within the highway. Oxfordshire County Council streetworks department should be consulted for details of restricted working times/periods, this may be in addition to any restrictions stated in planning conditions.
- All external finishes to be agreed with Oxfordshire County Council.



CLASS Z CONCRETE SURROUND

CLASS S BEDDING

PIPE BEDDING DETAILS

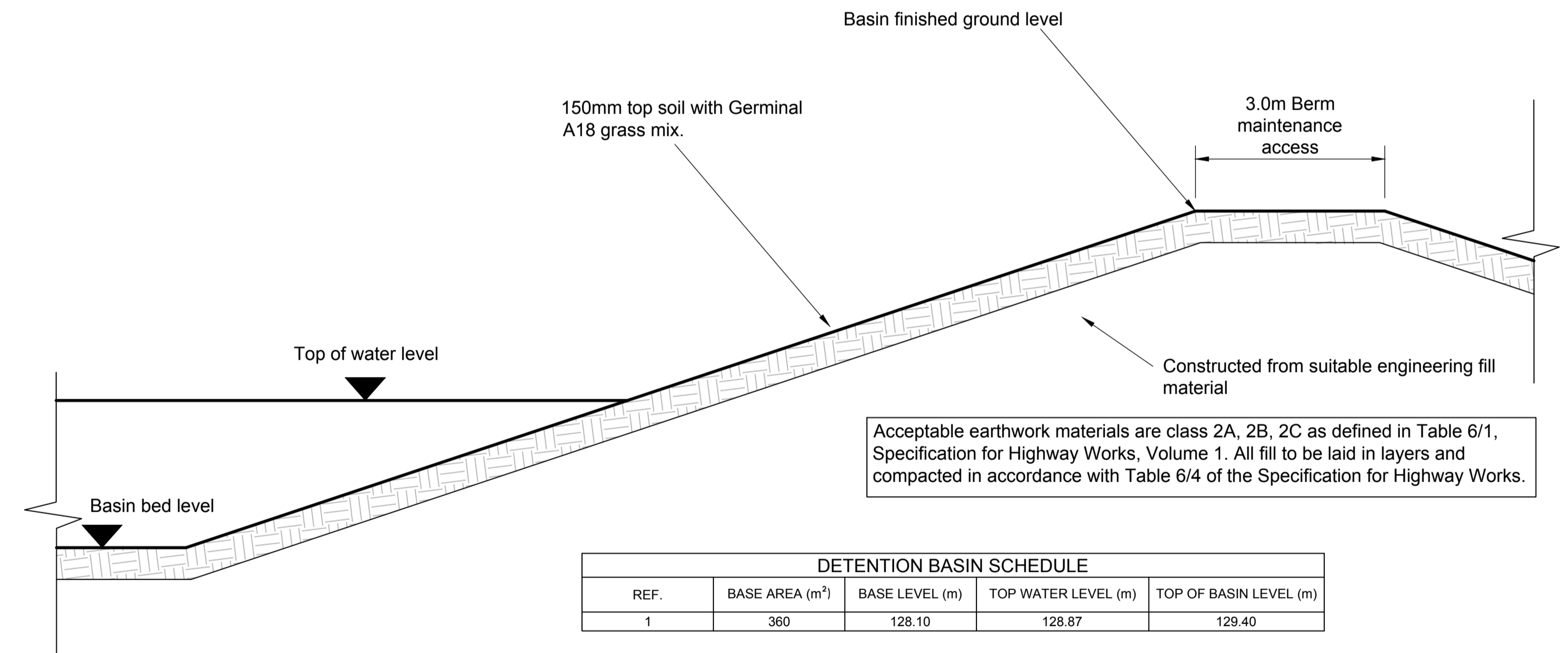
Not to scale

NOTES:

- * = 150 FOR PIPES DIAMETER UP TO 300mm, * = 200mm FOR PIPE DIAMETERS OVER 300mmØ
- BASED ON NARROW TRENCH THEORY: DESIGNER TO CONFIRM FOR SPECIFIC PIPELINE.
- BACKFILL MATERIAL TO BE SELECTED EXCAVATED MATERIAL WHERE THIS MATERIAL COMPLIES WITH CESWI. ADDITIONAL MATERIAL TO MAKE UP ANY DEFICIENCY TO BE GRANULAR SUB-BASE TYPE 1 UNLESS STATED OTHERWISE.
- IN WET, SOFT, OR SILTY SOILS, WHERE LATERAL SUPPORT IS NOT OBTAINED OR WHERE FINES MAY MIGRATE, THE GRANULAR BEDDING MATERIAL SHALL BE SURROUNDED BY GEOTEXTILE FABRIC WITH MIN 200 OVERLAP.
- TRENCH BACKFILL TO MEET HIGHWAY SPECIFICATION WHEN LAID IN ROAD OR FOOTPATH.
- REFER TO LONG SECTION DRAWINGS FOR LOCATION OF BACKFILL TYPES.

NOMINAL BORE OF PIPE (min)	AGGREGATE SIZE (mm)	
	SINGLE SIZED	GRADED
100	10	-
150	10 OR 14	14 TO 5
225-300	10,14 OR 20	14 TO 5 OR 20 TO 5
375-525	14 OR 20	14 TO 5 OR 20 TO 5
EXCEEDING 525	14,20 OR 40	14 TO 5 OR 20 TO 5 40 TO 5

DIM X ≥ 100mm FOR PIPES ≤ 100mmØ
DIM X ≥ 150mm FOR PIPES > 100mmØ
DIM X ≥ 200mm FOR PIPES TRENCHES IN ROCK



DETENTION BASIN SCHEDULE				
REF.	BASE AREA (m ²)	BASE LEVEL (m)	TOP WATER LEVEL (m)	TOP OF BASIN LEVEL (m)
1	360	128.10	128.87	129.40

POND BASIN SECTION

SCALE 1:25

Notes:

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- All external finishes to be agreed with Oxfordshire County Council.

Hydrock

Over Court Barns, Over Lane, Almondsbury, Bristol, BS32 4DF.
TEL: 01454 619 533 FAX: 01454 614 125 or visit www.hydrock.com

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Notes:
All dimensions are to be checked on site before the commencement of works. Any discrepancies are to be reported to the Architect & Engineer for verification. Figured dimensions only are to be taken from this drawing. This drawing is to be read in conjunction with all relevant Engineers' and Service Engineers' drawings and specifications. This drawing is copyright.

Rev	Date	Description	By	Ckd
P4	07/05/2020	Following OCC comments, headwall detail amended to ensure 200mm silt trap.	JD	RJP
P3	24/01/2020	Class Z concrete surround detail added. Highway ditch detail amended.	JD	RJP
P2	07/11/2019	Bagwork headwall and ditch details updated. Pipe bedding detail amended.	JD	RJP
P1	23/05/2017	First Issue.	NH	RJP

Project: **WYKHAM PARK FARM BANBURY**

Client:

GALLAGHER ESTATES

Drawing Title: **S278 WORKS DRAINAGE CONSTRUCTION DETAILS SHEET 2 OF 2**

Project Number: **C-04841-C**

Drawn: Checked: Scale @ A1: Drawn Date: First Issue:
NH RJP As indicated 30/01/2017 23/05/2017

Status: **D2** Purpose of Issue: **TENDER**
Drawing No. **WPF-HYD-XX-XX-DR-D-0156** Revision **P4**