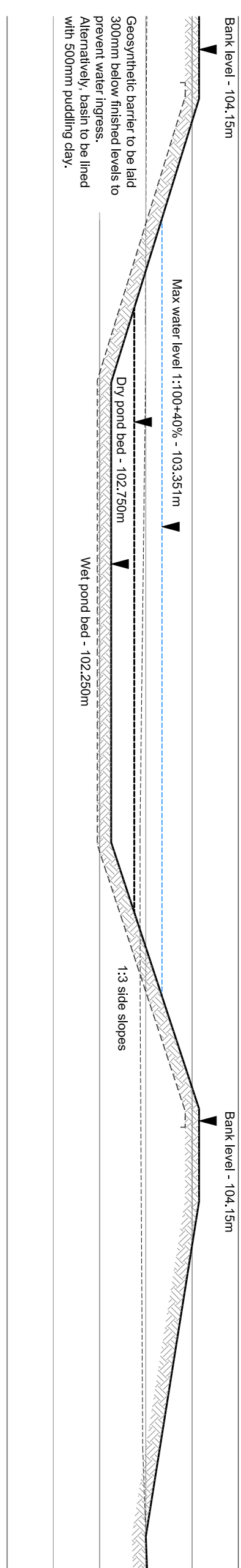


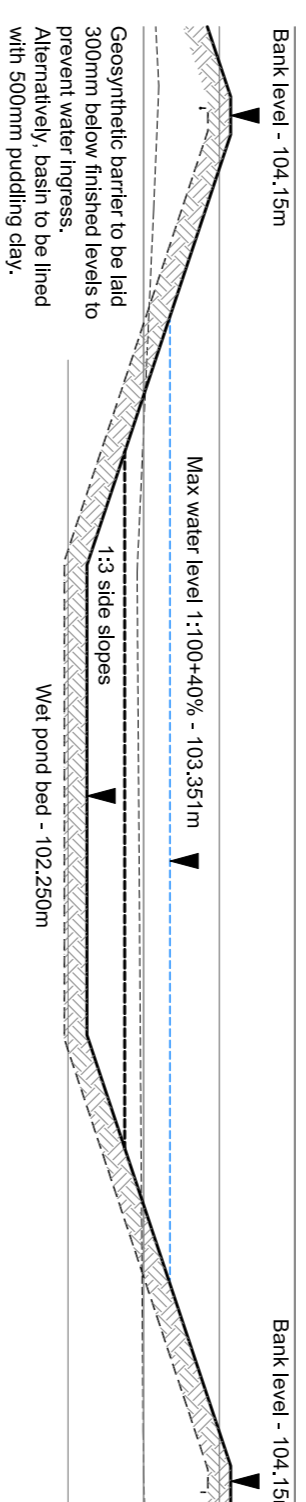
105.000



DATUM 100.000
POND SECTION A-A

OFFSET	0.000	5.000	10.000	15.000	20.000	25.000	30.000	33.896
GROUND LEVEL	103.020	102.999	102.967	102.906	102.876	102.898	102.827	103.000
FEATURE LEVEL	103.850	102.250	102.250	102.250	103.850	103.850	103.000	103.036

105.000



DATUM 100.000
POND SECTION B-B

OFFSET	0.000	5.000	10.000	15.000	19.746
GROUND LEVEL	103.160	103.014	102.933	102.967	103.018
FEATURE LEVEL	103.300	103.850	103.850	102.250	103.850

- To ensure the detention basin continues to operate effectively during periods of surface flooding from the street, the following measures are proposed:
- Geosynthetic barrier to be laid 300mm below finished levels to prevent water ingress. OR alternatively, basin to be lined with 300mm puddling clay.
 - Minimum 'top of bank level' to be 104.15m allowing 300mm freeboard over predicted maximum flood water level.
 - Flap valves to be fitted to outfall inlets to prevent wastewater surcharging detention basin.
 - Wastewaters, pipework and culverts to be regularly inspected for debris / damage / blocked and repairs.

Geotextile specification

Geotextiles for use in drainage systems - to SSG Clause E2.44

Shall comply with BS EN 13252 and the characteristics specified in the design. A declaration of performance for each product used shall be provided for approval prior to installation. Geotextiles for use in erosion control shall comply with BS EN 13253 and the characteristics specified in the design. A declaration of performance for each product used shall be provided for approval prior to installation.

Geotextiles shall:

- In both machine and cross-machine directions, sustain a tensile load of not less than 8.0 kN/m at break and have a minimum failure strain of 40% when determined in accordance with BS EN ISO 10319;
- Have a minimum puncture resistance of 1500 N when determined in accordance with BS EN ISO 12236;
- Have a size distribution of pore openings such that it shall have a minimum apparent opening size O_{90} when determined in accordance with BS EN ISO 12956 of 75µm; and
- Allow water to flow through it, in either direction, normal to its principal plane at a rate of not less than that stated in the design under a constant head of water of 100 mm and a maximum breakthrough head of 50 mm when determined in accordance with BS EN ISO 11058.

Geosynthetic barriers for lining ponds and wetlands - to SSG Clause E2.45

Shall comply with BS EN 13361 and the characteristics specified in the design. A declaration of performance for each product used shall be provided for approval prior to installation.

Geosynthetic barriers shall:

- Sustain a tensile load of not less than 25.0 kN/m at break and have a minimum failure strain of 800%; when determined in accordance with ASTM D-533;
- Have a minimum puncture resistance of 275 N when determined in accordance with ASTM D-4833;
- Have a minimum tear resistance of 100 N when determined in accordance with ASTM D-1004.

REVISIONS

-	Initial Issue.	00/00/00	SCH
A	Updated in accordance with LPA comments.	06/02/23	SCH