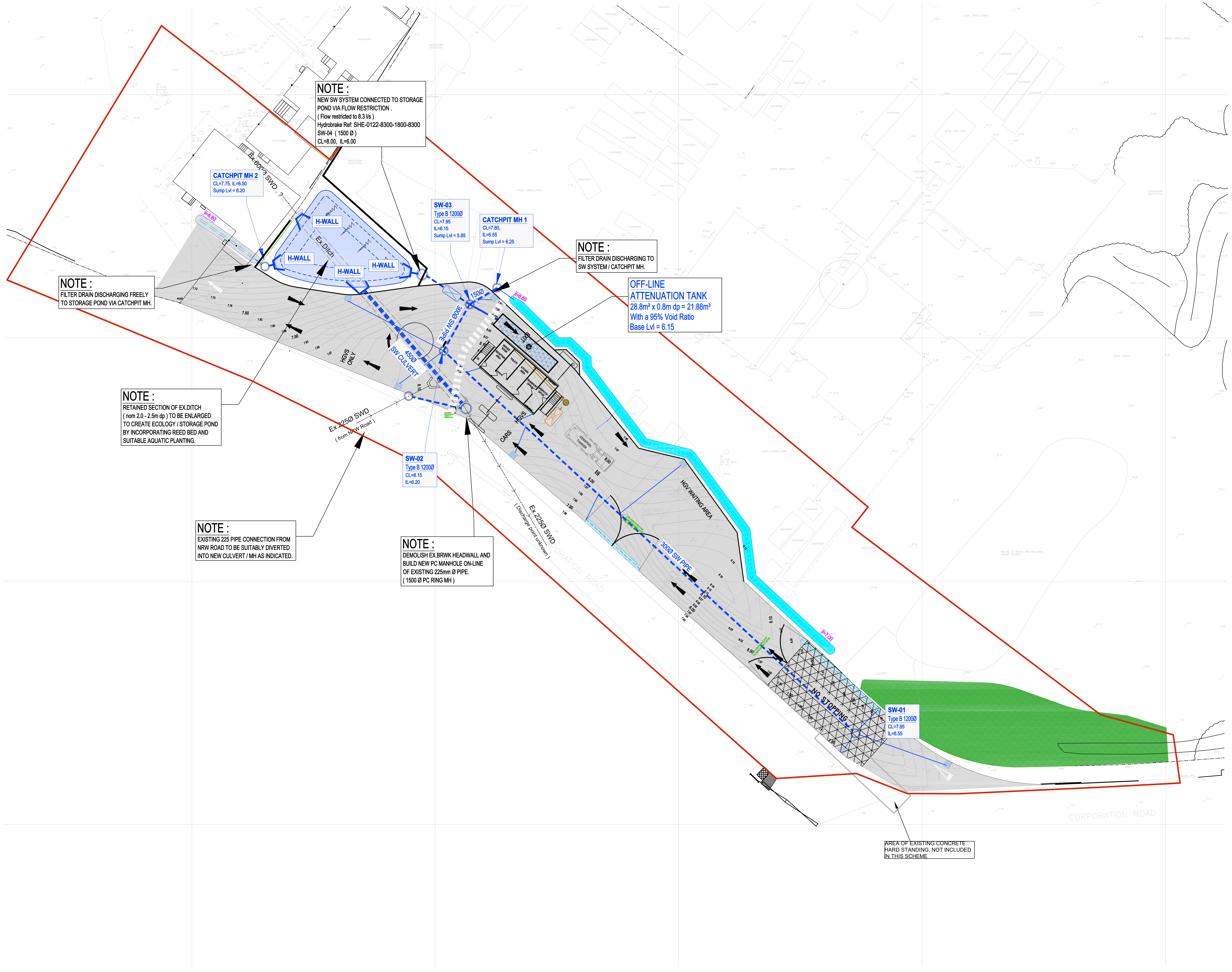
ALL DIMENSIONS TO BE CHECKED BY CONTRACTOR



NOTE :
NEW SW SYSTEM CONNECTED TO STORAGE POND VIA FLOW RESTRICTION .
(Flow restricted to 8.3 l/s)
Hydrobrake Ref: SHE-0122-8300-1800-8300
SW-04 (1500 Ø)
CL=8.00, IL=6.00

NOTE :
FILTER DRAIN DISCHARGING FREELY TO STORAGE POND VIA CATCHPIT MH.

NOTE :
FILTER DRAIN DISCHARGING TO SW SYSTEM / CATCHPIT MH.

OFF-LINE
ATTENUATION TANK
28.8m² x 0.8m dp = 21.88m³
With a 95% Void Ratio
Base Lvl = 6.15

NOTE :
RETAINED SECTION OF EX.DITCH (nom 2.0 - 2.5m dp) TO BE ENLARGED TO CREATE ECOLOGY / STORAGE POND BY INCORPORATING REED BED AND SUITABLE AQUATIC PLANTING.

NOTE :
EXISTING 225 PIPE CONNECTION FROM NRW ROAD TO BE SUITABLY DIVERTED INTO NEW CULVERT / MH AS INDICATED.

NOTE :
DEMOLISH EX.BRWK HEADWALL AND BUILD NEW PC MANHOLE ON-LINE OF EXISTING 225mm Ø PIPE.
(1500 Ø PC RING MH)

AREA OF EXISTING CONCRETE HARD STANDING, NOT INCLUDED IN THIS SCHEME

Key - Drainage

- - -●- -	Proposed Private Foul Drainage.
- - - -○- -	Proposed Private Storm Drainage
RG ▤	450mm dia x 900mm deep trapped road gully grating with 150mm dia gully connection.
═ ═ ═	Proposed Filter Drain . with Catchpit Outfall, laid with perforated pipe to base. (providing treatment prior to discharging into SW System)
═ ═ ═	Linear Drainage Channel Drain with gully/sump outlet .
▨	U/G Cellular Attenuation Tank. (Wavin Aquacell or similar)
☒	Bypass Separator. (Kingspan Klargester NSBE010 or similar)
▨	Proposed Ecology / Storage Pond.
☒	Foul Cesspit Tank. (Kingspan Klargester 2,800litre Cesspool or similar)

SURFACE WATER DESIGN SUMMARY

Soakaways are not considered suitable for the development based on the underlying ground conditions encountered (refer to site investigation report) .

Surface water flows shall be restricted to ex. brownfield runoff rate , providing min 70% betterment and be designed to accommodate the critical 1:100yr + 40% CC event.

Impermeable Area's ;-
Roof & Access Rd
Total = 0.25 ha
(0.04 ha at end of road discharges freely into pond)

Allowable Site Discharge ;-
Total Site Design Discharge = 10.00 L/s.

Storage / Attenuation ;-
80m3 (100yr+CC)

REV	AMENDMENT	BY	DATE
P01	First Issue.	GS	14.07.25

UKCA CE
PROJECT EXECUTION CLASS:N/A
All materials supplied in relations to those specified on this drawing are to be marked UKCA in accordance with the UK Department for Business and Trade OR CE marked in accordance with the European Union Declaration of conformity

PURPOSE OF ISSUE
PRELIMINARY

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CLIENT
MARSHALLS MONO PLC

PROJECT
NEWPORT GATEHOUSE

DRAWING TITLE
PROPOSED NEW ROAD DRAINAGE

SHEET SIZE	SCALE	DATE	DRAWN	CHECKED	STATUS
A0	1:200	JULY 2025	GS	DCC	-

CCE PROJECT No.	DRAWING No.	REV
8686	551	P01

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