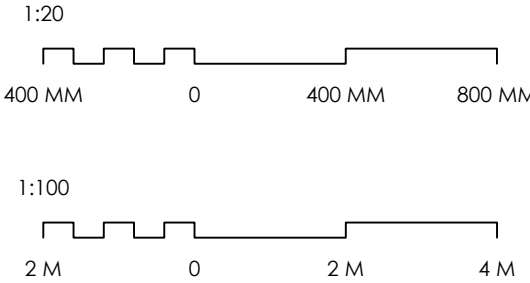


NOTE : All dimensions to be checked on site.
Do not scale this drawing. All discrepancies should be reported to RHughes Designs.
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Drainage Plan Outline to be conducted by suds specialist

The rationale surrounding the proposed layout is based on achieving source control treatment of the run-off from potentially contaminated surfaces such as car parks, whilst optimizing the layout to overcome attenuation and level issues. By introducing source control systems (rather than end-of-pipe treatment) it is possible to minimise construction depths, reduce pipe sizes and minimize construction risks.

SuDS will need to be redesigned so that runoff from the resurfaced car park is collected on the southeast edge by a Permachannel / Permavoid contained collection and treatment system that discharges the stormwater to the MUGA porous sub-base storage layer via under kerb connections to the MUGA's Permavoid Sport perimeter conduit.

The rainfall landing on the MUGA quickly percolates through the permeable surfaces where it is stored in the porous sub-base layers until it can infiltrate into the ground or be collected and conveyed by the Permavoid Sport conduits to the discharge point in the southern corner of the site. At the discharge point the stormwater flows out of the Permavoid Sport conduit via a pipe into flow control chamber where the stormwater is discharged at a controlled maximum rate of 1 l/s for the 0-30year return period storms, increasing to 3 l/s for storm events greater than the 30 year return period, into the existing manhole south of the southern corner of the MUGA.

KEY

Type 3 – High grip finish polymeric surfaces

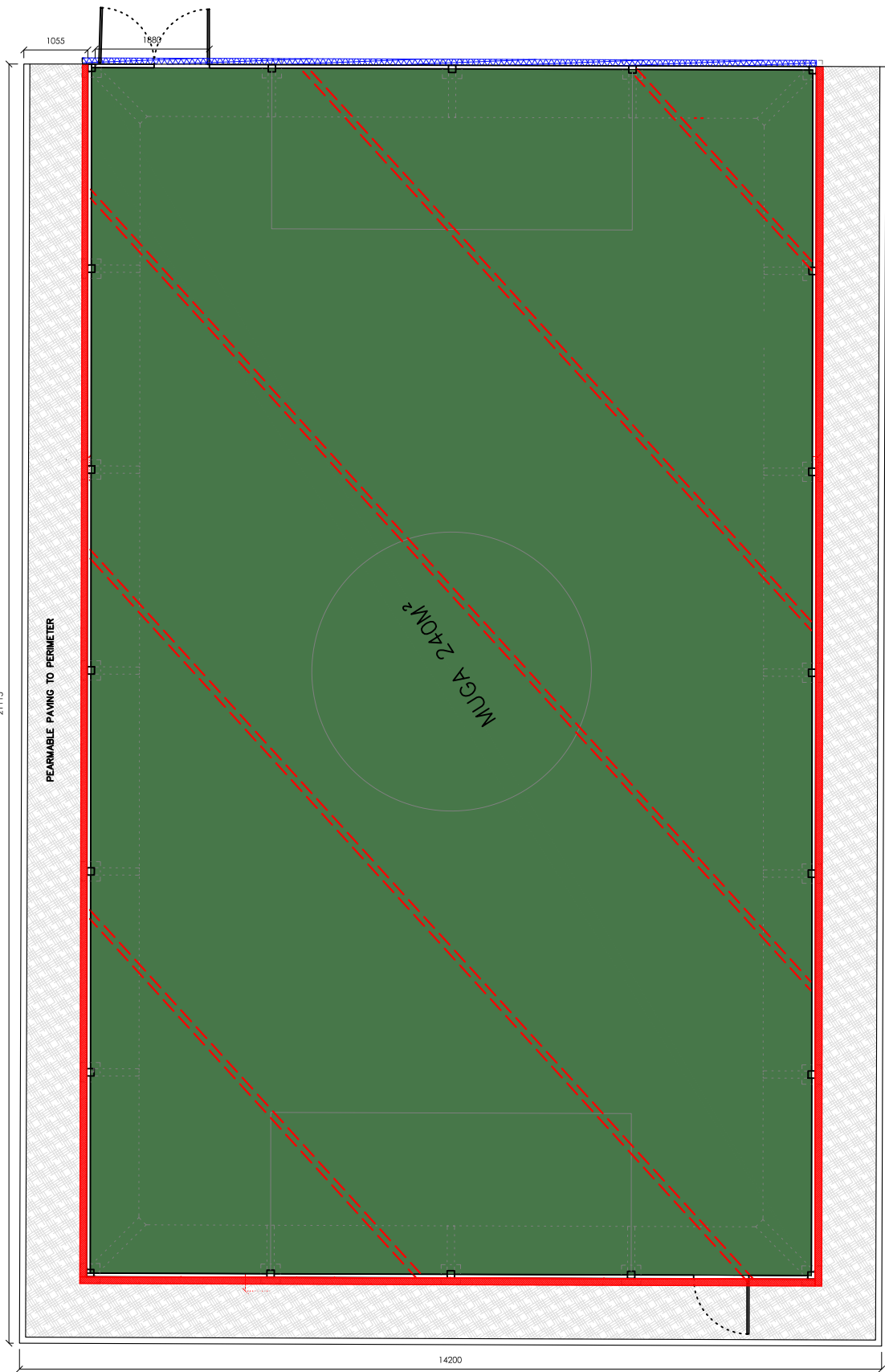
150mm Thick Heavy duty Permavoid pitch drainage conduit with impermeable geomembrane check dam

Permachannel silt drainage channel

Membrane / Clay barrier

Previous Asphalt

Permeable sidewalk



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Date : 08/07/2024
Title : MUGA Regs [2]

Drawn by : CA
Scale 1 : 100 at A1