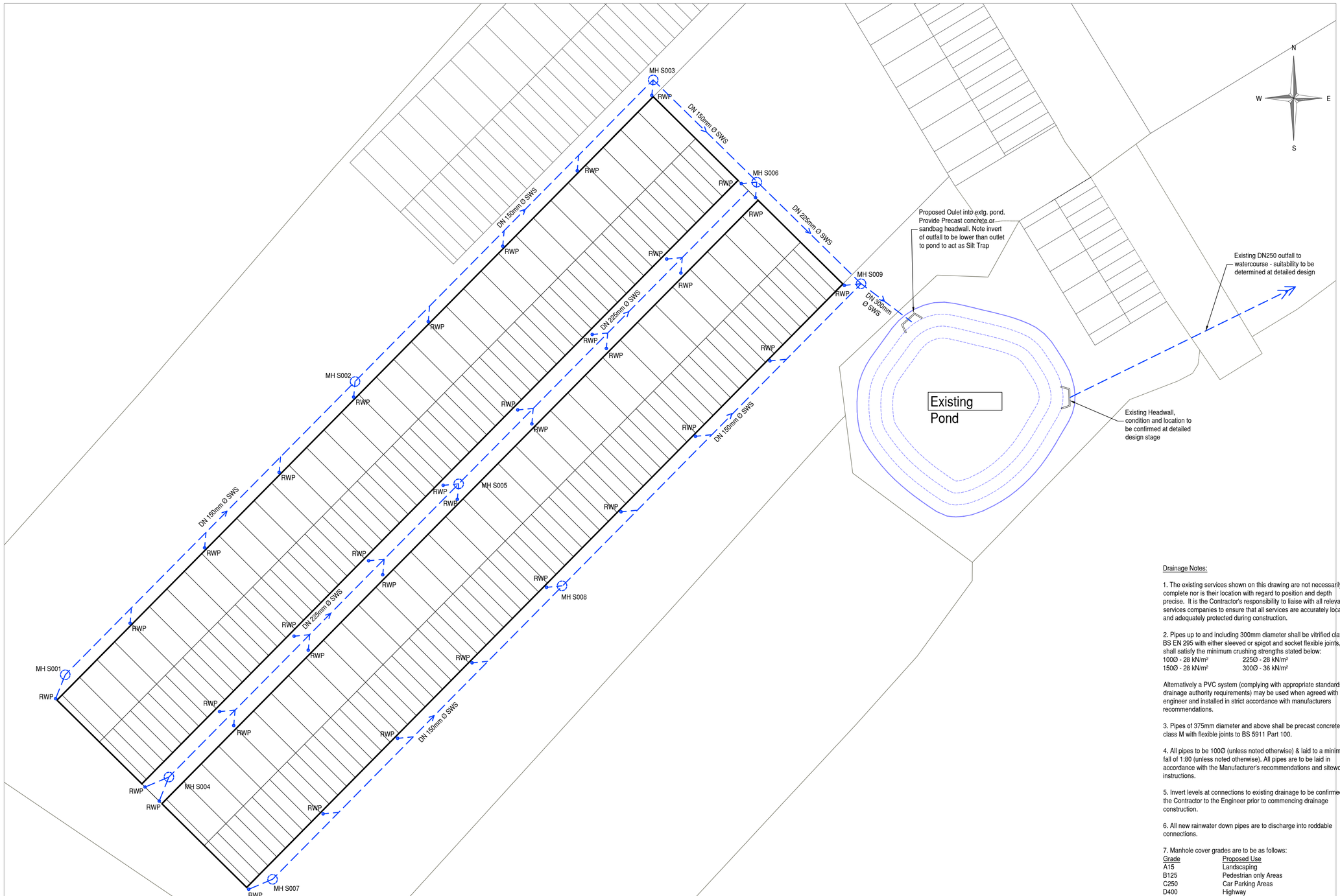

Safety, Health & Environmental Information:

In addition to the hazards and risks normally associated with the types of work detailed on this drawing, please note the significant hazards identified by symbols below,

and described below:

Construction/Maintenance/Cleaning/Demolition

Refer to Drawing:

General Notes:

1. Do not scale from this drawing.

2. All dimensions are in millimetres (mm), all levels in metres (m) unless noted otherwise.

3. Discrepancies or omissions are to be reported to the Engineer prior to work commencing.

4. Materials and workmanship are to comply in all respects with current British Standard Specifications, Codes of Practice, and Building Regulations Approved Documents.

5. The copyright of this drawing is vested in the Engineer and must not be copied or reproduced without written consent.

6. The Contractor is to check and verify all building and site dimensions, levels and sewer invert levels at connection points before work commences.

7. This drawing is to be read in conjunction with all relevant specifications and drawings issued by the Engineer, Architect and other Specialists.

Drainage Notes:

1. The existing services shown on this drawing are not necessarily complete nor is their location with regard to position and depth precise. It is the Contractor's responsibility to liaise with all relevant services companies to ensure that all services are accurately located and adequately protected during construction.

2. Pipes up to and including 300mm diameter shall be vitrified clay to BS EN 295 with either sleeved or spigot and socket flexible joints, and shall satisfy the minimum crushing strengths stated below:

100Ø - 28 kN/m²	225Ø - 28 kN/m²
150Ø - 28 kN/m²	300Ø - 36 kN/m²

Alternatively a PVC system (complying with appropriate standards and drainage authority requirements) may be used when agreed with the engineer and installed in strict accordance with manufacturers recommendations.

3. Pipes of 375mm diameter and above shall be precast concrete class M with flexible joints to BS 5911 Part 100.

4. All pipes to be 100Ø (unless noted otherwise) & laid to a minimum fall of 1:80 (unless noted otherwise). All pipes are to be laid in accordance with the Manufacturer's recommendations and sitework instructions.

5. Invert levels at connections to existing drainage to be confirmed by the Contractor to the Engineer prior to commencing drainage construction.

6. All new rainwater down pipes are to discharge into roddable connections.

7. Manhole cover grades are to be as follows:

Grade	Proposed Use
A15	Landscaping
B125	Pedestrian only Areas
C250	Car Parking Areas
D400	Highway

8. Precast concrete chamber sections and cover slabs to be to BS: 5911.

9. Chamber sizes:

Main pipe dia (mm)	Chamber dia (mm)
< 375	1200 (1050 where depth to soffit is 1.35m-1.5m)
375-450	1350
500-700	1500
750-900	1800
> 900	Pipe dia. + 900

10. All pipes to be built into the manhole invert with soffits level.

11. All manhole and gully gratings to be to BS: EN 124.

12. Metal shims are to be placed beneath manhole cover frames as levelling aids. The shims are to remain in place when the frame is grouted in to position to avoid settlement under trafficking.

13. Section 106 connection application to be sought and approved prior to any connections to the public network being made.

Rev	By / Chk'd	Date	Description
P01	RA/GM	05/04/23	For Discussion

PRELIMINARY DRAWING
This drawing is not to be used for construction

Client

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BarnsleyMarshall

Project

Cow Shed
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Drawing

Proposed Surface Water Drainage Layout

By/Chk'd	RA/GM
Date	05/04/2023
Drawing No.	CSH-BML-XX-XX-DR-C-0500
Revision	P01
BML Job No.	1000-05
Status	-
Drawing Scale at A1:	NTS
CAD Filename:	Y:\Projects\1000-05 Cow Shed\Information - Working\CAD\CSH-BML-XX-XX-DR-C-0500 P01 - Drainage Layout.dwg