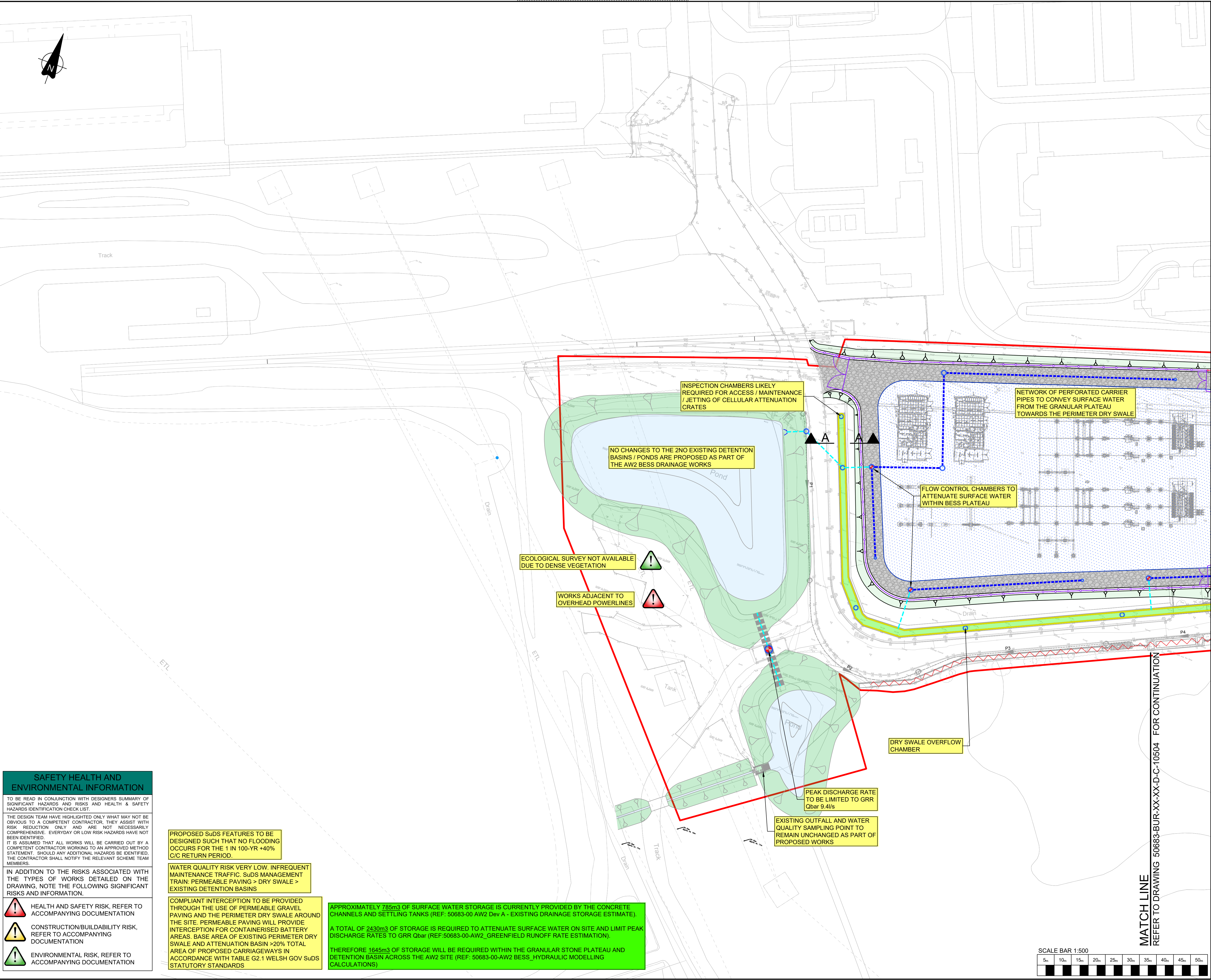


10 cm - Caution as distortion can occur.
ALL CIVIL DIMENSIONS ARE IN METRES - ALL STRUCTURAL DIMENSIONS ARE IN MILLIMETRES - ALL LEVELS ARE IN METRES.



SAFETY HEALTH AND ENVIRONMENTAL INFORMATION

TO BE READ IN CONJUNCTION WITH DESIGNERS SUMMARY OF SIGNIFICANT HAZARDS AND RISKS AND HEALTH & SAFETY HAZARDS IDENTIFICATION CHECK LIST.

THE DESIGN TEAM HAVE HIGHLIGHTED ONLY WHAT MAY NOT BE OBVIOUS TO A COMPETENT CONTRACTOR. THEY ASSIST WITH RISK REDUCTION ONLY AND ARE NOT NECESSARILY COMPREHENSIVE. EVERYDAY OR LOW RISK HAZARDS HAVE NOT BEEN IDENTIFIED.

IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING TO AN APPROVED METHOD STATEMENT. SHOULD ANY ADDITIONAL HAZARDS BE IDENTIFIED, THE CONTRACTOR SHALL NOTIFY THE RELEVANT SCHEME TEAM MEMBERS.

IN ADDITION TO THE RISKS ASSOCIATED WITH THE TYPES OF WORKS DETAILED ON THE DRAWING, NOTE THE FOLLOWING SIGNIFICANT RISKS AND INFORMATION.

HEALTH AND SAFETY RISK, REFER TO ACCOMPANYING DOCUMENTATION

CONSTRUCTION/BUILDABILITY RISK, REFER TO ACCOMPANYING DOCUMENTATION

ENVIRONMENTAL RISK, REFER TO ACCOMPANYING DOCUMENTATION

PROPOSED SuDS FEATURES TO BE DESIGNED SUCH THAT NO FLOODING OCCURS FOR THE 1 IN 100-YR +40% C/C RETURN PERIOD.

WATER QUALITY RISK VERY LOW. INFREQUENT MAINTENANCE TRAFFIC. SuDS MANAGEMENT TRAIN: PERMEABLE PAVING > DRY SWALE > EXISTING DETENTION BASINS

COMPLIANT INTERCEPTION TO BE PROVIDED THROUGH THE USE OF PERMEABLE GRAVEL PAVING AND THE PERIMETER DRY SWALE AROUND THE SITE. PERMEABLE PAVING WILL PROVIDE INTERCEPTION FOR CONTAINERISED BATTERY AREAS. BASE AREA OF EXISTING PERIMETER DRY SWALE AND ATTENUATION BASIN >20% TOTAL AREA OF PROPOSED CARRIAGEWAYS IN ACCORDANCE WITH TABLE G2.1 WELSH GOV SuDS STATUTORY STANDARDS

APPROXIMATELY 785m³ OF SURFACE WATER STORAGE IS CURRENTLY PROVIDED BY THE CONCRETE CHANNELS AND SETTLING TANKS (REF: 50683-00 AW2 Dev A - EXISTING DRAINAGE STORAGE ESTIMATE).

A TOTAL OF 2430m³ OF STORAGE IS REQUIRED TO ATTENUATE SURFACE WATER ON SITE AND LIMIT PEAK DISCHARGE RATES TO GRR Qbar (REF: 50683-00-AW2_GREENFIELD RUNOFF RATE ESTIMATION).

THEREFORE 1645m³ OF STORAGE WILL BE REQUIRED WITHIN THE GRANULAR STONE PLATEAU AND DETENTION BASIN ACROSS THE AW2 SITE (REF: 50683-00-AW2 BESS_HYDRAULIC MODELLING CALCULATIONS)



- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.
- DO NOT SCALE FROM THIS DRAWING. ANY AMBIGUITIES, OMISSIONS AND ERRORS ON DRAWINGS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION IMMEDIATELY. ALL DIMENSIONS MUST BE CHECKED AND VERIFIED ON SITE.
- ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.
- FOR GENERAL NOTES, REFER TO DRAWING:

Project:
AW2 BESS, USKMOUTH

- DRAWING NOTES:**
- ALL ENGINEERING WORK TO BE IN ACCORDANCE WITH CIVIL ENGINEERING SPECIFICATION FOR THE WATER INDUSTRY, 7TH EDITION AND SEWERS FOR ADOPTION, 7TH EDITION.
 - PRESENCE / LOCATION OF ANY SERVICES INTERACTING WITH PROPOSED DRAINAGE TO BE CONFIRMED WITH SUITABLE TRIAL HOLES AND GPR UTILITY SURVEY
 - AT ANY INTERFACE BETWEEN CARRIER PIPE AND IMPERMEABLE LINER, LINER TO BE LOCALLY CUT AND CONSTRUCTED WITH TOP HAT SLEEVE
 - PEAK DISCHARGE RATES FROM AW2 BESS SITE TO BE LIMITED TO TO GRR Qbar 9.4l/s
 - CONDITION OF EXISTING SURFACE WATER DRAINAGE SYSTEM TO BE CONFIRMED VIA CCTV SURVEY PRIOR TO DETAILED DESIGN.
 - PROPOSED FINISHED LEVELS OF PLATEAU ASSUMED TO BE 9.75m AOD BASED ON RPS FCA REPORT (Ref. ENV-21837)
 - FOR DRAINAGE DETAILS REFER TO BURROUGHS DRAWING 50679-BUR-XX-ZZ-D-C-10550 & 50679-BUR-XX-ZZ-D-C-10551
 - FOR CONSTRUCTION DETAILS OF THE EXISTING W1b OUTFALL AND SAMPLING CHAMBER, PLEASE REFER TO DRAWING 227223-CAR-AH-513
 - FOR DETAILS OF THE EXISTING NRW DISCHARGE PERMIT FROM THE AW2 BESS CATCHMENT, PLEASE REFER TO 20151223_SUP_LP3131SW_Var002 signed
 - ALL PERIMETER ACCESS TRACKS TO COMPRISE PERMEABLE GRAVELS.

LEGEND:

- SITE BOUNDARY
- PROPOSED 2.4m PRO MESH V- MESH FENCING
- PROPOSED 3m PALISADE FENCING
- PROPOSED PERFORATED PIPE
- PROPOSED NON-PERFORATED PIPE
- PROPOSED MANHOLE / CATCHPIT / INSPECTION FLOW CONTROL CHAMBER
- PROPOSED FLOW CONTROL CHAMBER
- PROPOSED POROUS PLATEAU (TYPE 3 MATERIAL GRAVEL YARD)
- EXISTING ATTENUATION POND
- PROPOSED LANDSCAPING / DRY SWALE
- OPPORTUNITY FOR BIODIVERSITY / NATURAL F.R.M. FEATURES / AMENITY IMPROVEMENTS
- EXISTING ATTENUATION POND
- EXISTING BASIN & SWALE SLOPES
- EXISTING SURFACE WATER MANHOLE
- EXISTING DRAINAGE PIPE
- EXISTING DRAINAGE FEATURES TO BE ABANDONED
- PROPOSED EARTHWORKS FILL MATERIAL

P2.0	UPDATED DRAINAGE LAYOUT	10/04/25	WN	AJ
P1.0	ORIGINAL ISSUE	07/03/25	JAH	AJ
REV.	DESCRIPTION	DATE	DRW	CHK

Drawing Title:
**SERIES 500 - DRAINAGE
PROPOSED SURFACE WATER DRAINAGE
GENERAL ARRANGEMENT SHEET 1 OF 2**

Burroughs Project No.:	Scale:	Original Paper Size:
50683-00	1:500	A1

Drawing Number:
50683-BUR-XX-XX-D-C-10503

Status: Status Description:
S2 - SUITABLE FOR INFORMATION

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