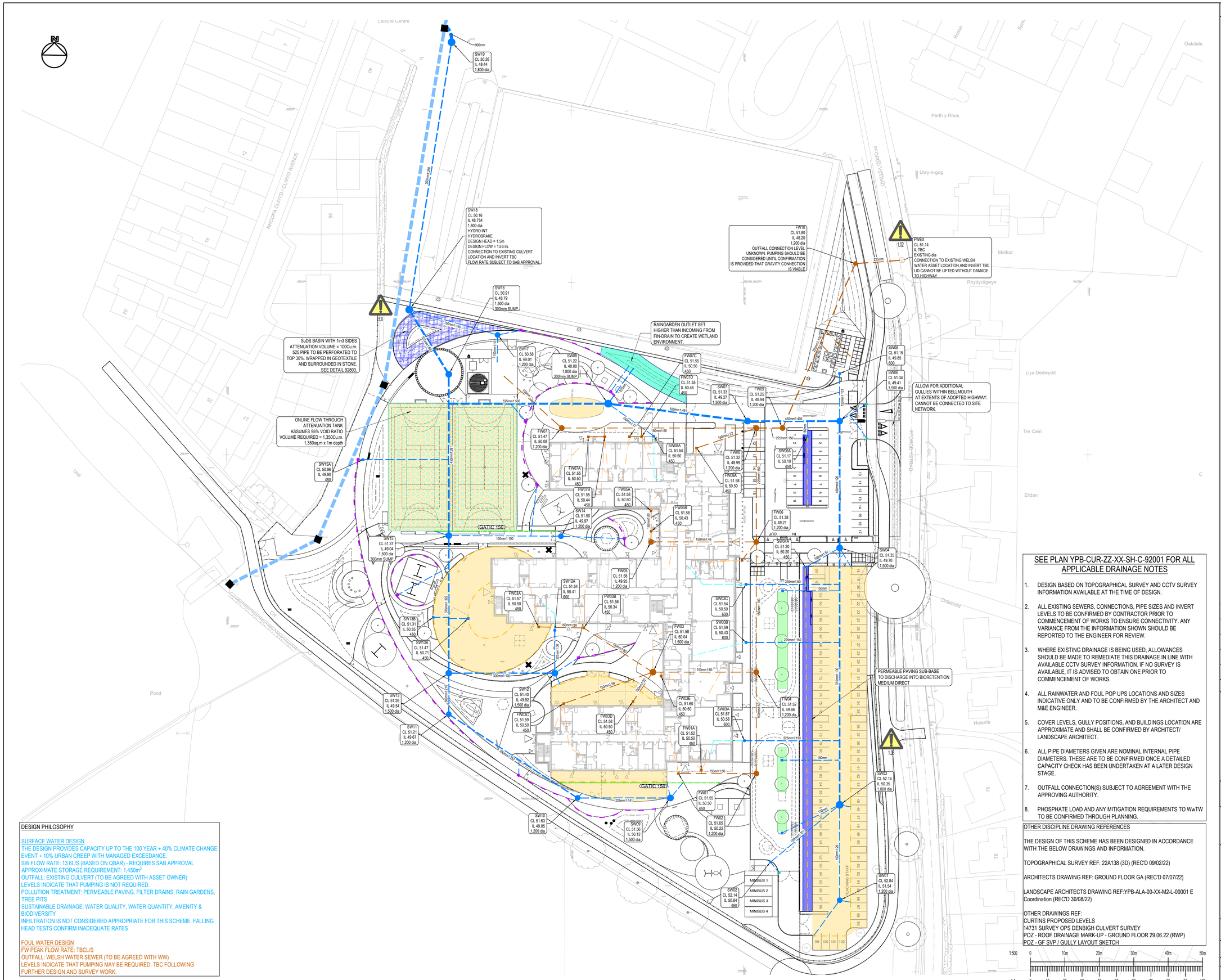

DESIGN PHILOSOPHY

SURFACE WATER DESIGN
THE DESIGN PROVIDES CAPACITY UP TO THE 100 YEAR + 40% CLIMATE CHANGE EVENT + 10% URBAN CREEP WITH MANAGED EXCEEDANCE.
SW FLOW RATE: 13.6L/S (BASED ON QBAR) - REQUIRES SAB APPROVAL
APPROXIMATE STORAGE REQUIREMENT: 1,450m^3
OUTFALL: EXISTING CULVERT (TO BE AGREED WITH ASSET OWNER)
LEVELS INDICATE THAT PUMPING IS NOT REQUIRED.
POLLUTION TREATMENT: PERMEABLE PAVING, FILTER DRAINS, RAIN GARDENS, TREE PITS
SUSTAINABLE DRAINAGE: WATER QUALITY, WATER QUANTITY, AMENITY & BIODIVERSITY
INFILTRATION IS NOT CONSIDERED APPROPRIATE FOR THIS SCHEME. FALLING HEAD TESTS CONFIRM INADEQUATE RATES

FOUL WATER DESIGN
FW PEAK FLOW RATE: TBCL/S
OUTFALL: WELSH WATER SEWER (TO BE AGREED WITH WW)
LEVELS INDICATE THAT PUMPING MAY BE REQUIRED. TBC FOLLOWING FURTHER DESIGN AND SURVEY WORK.

SEE PLAN YPB-CUR-ZZ-XX-SH-C-92001 FOR ALL APPLICABLE DRAINAGE NOTES

1. DESIGN BASED ON TOPOGRAPHICAL SURVEY AND CCTV SURVEY INFORMATION AVAILABLE AT THE TIME OF DESIGN.
2. ALL EXISTING SEWERS, CONNECTIONS, PIPE SIZES AND INVERT LEVELS TO BE CONFIRMED BY CONTRACTOR PRIOR TO COMMENCEMENT OF WORKS TO ENSURE CONNECTIVITY. ANY VARIANCE FROM THE INFORMATION SHOWN SHOULD BE REPORTED TO THE ENGINEER FOR REVIEW.
3. WHERE EXISTING DRAINAGE IS BEING USED, ALLOWANCES SHOULD BE MADE TO REMEDIATE THIS DRAINAGE IN LINE WITH AVAILABLE CCTV SURVEY INFORMATION. IF NO SURVEY IS AVAILABLE, IT IS ADVISED TO OBTAIN ONE PRIOR TO COMMENCEMENT OF WORKS.
4. ALL RAINWATER AND FOUL POP UPS LOCATIONS AND SIZES INDICATIVE ONLY AND TO BE CONFIRMED BY THE ARCHITECT AND M&E ENGINEER.
5. COVER LEVELS, GULLY POSITIONS, AND BUILDINGS LOCATION ARE APPROXIMATE AND SHALL BE CONFIRMED BY ARCHITECT/ LANDSCAPE ARCHITECT.
6. ALL PIPE DIAMETERS GIVEN ARE NOMINAL INTERNAL PIPE DIAMETERS. THESE ARE TO BE CONFIRMED ONCE A DETAILED CAPACITY CHECK HAS BEEN UNDERTAKEN AT A LATER DESIGN STAGE.
7. OUTFALL CONNECTION(S) SUBJECT TO AGREEMENT WITH THE APPROVING AUTHORITY.
8. PHOSPHATE LOAD AND ANY MITIGATION REQUIREMENTS TO WwTW TO BE CONFIRMED THROUGH PLANNING.

OTHER DISCIPLINE DRAWING REFERENCES

THE DESIGN OF THIS SCHEME HAS BEEN DESIGNED IN ACCORDANCE WITH THE BELOW DRAWINGS AND INFORMATION.

TOPOGRAPHICAL SURVEY REF: 22A138 (3D) (REC'D 09/02/22)

ARCHITECTS DRAWING REF: GROUND FLOOR GA (REC'D 07/07/22)

LANDSCAPE ARCHITECTS DRAWING REF:YPB-ALA-00-XX-M2-L-00001 E Coordination (REC'D 30/08/22)

OTHER DRAWINGS REF:
CURTINS PROPOSED LEVELS
14731 SURVEY OPS DENBIGH CULVERT SURVEY
POZ - ROOF DRAINAGE MARK-UP - GROUND FLOOR 29.06.22 (RWP)
POZ - GF SVP / GULLY LAYOUT SKETCH

GENERAL NOTES:

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.
2. DO NOT SCALE THIS DRAWING. ANY AMBIGUITIES, OMISSIONS AND ERRORS ON DRAWINGS SHALL BE BROUGHT TO THE ENGINEERS ATTENTION IMMEDIATELY. ALL DIMENSIONS MUST BE CHECKED / VERIFIED ON SITE.
3. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
4. FOR GENERAL NOTES REFER TO DRAWING.
5. LAYOUTS BASED ON INFORMATION AVAILABLE AT THE TIME OF PRODUCTION. ANY VARIANCE FROM THE INFORMATION SHOWN SHOULD BE REPORTED TO THE ENGINEER FOR REVIEW.
6. LAYOUT SUBJECT TO LOCATING EXISTING UTILITIES. ALL EXISTING SERVICES TO BE LOCATED PRIOR TO COMMENCEMENT OF ANY WORKS, AND WHERE NECESSARY PROTECTION OR DIVERSIONS TO BE UNDERTAKEN TO AVOID CONFLICT WITH THE PROPOSED WORK.
7. SECTIONS OF ADOPTABLE HIGHWAY SUBJECT TO APPROVAL AND CONSULTATION BY LOCAL AUTHORITY.
8. ASSETS SHOWN MAY NOT ACCURATELY REPRESENT THE TRUE LOCATION ON SITE.
9. NOT FOR CONSTRUCTION FOR INFORMATION ONLY

KEY

- PROPOSED PRIVATE SW SEWER
- PROPOSED PRIVATE FW SEWER
- PROPOSED 150Ø ABG FIN DRAIN TO EDGE. OUTLET TO BE MIN. 200 IC.
- EXISTING 900Ø SURFACE WATER CULVERT AT 1.5m DEPTH
- PROPOSED LINEAR DRAIN
- 150Ø FULLY PERFORATED PIPE
- D400 ROAD GULLY WITH 150Ø CONNECTION
- CELLULAR ATTENUATION SYSTEM - SDS GEOLIGHT OR SIMILAR APPROVED FLOW THROUGH SYSTEM
  VENTING LOCATION TBC BY MANUFACTURER.
- TREEPIT SYSTEM - GREENBLUE URBAN OR SIMILAR
  SYSTEM DESIGN BY OTHERS
- BIORETENTION - SEE DETAIL SHEET 92802
  UNDERDRAINED WITH 150mm PERFORATED PIPE
- RAINGARDEN - DETAIL TO BE COORDINATED WITH LANDSCAPE ARCHITECT
- PERMEABLE PAVING - SEE EXTERNAL WORKS DETAILS FOR PROPOSALS
  UNDERDRAINED WITH 150mm PERFORATED PIPE
- SuDS BASIN -
  GRAVEL BASE TO ENCOURAGE INFILTRATION

Rev:	Description:	Date:	By:	Chkd:
P07	CLARIFICATIONS (S4)	01/09/22	GDP	JDB
P06	STAGE 3 (S4)	08/07/22	JDB	AF
P05	PLANNING (S2)	27/05/22	JDB	AF
P04	STAGE 2 (S4)	08/03/22	MB	JDB
P03	SITE LAYOUT AMENDED (S4)	25/02/22	MB	JDB

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Status: SUITABLE FOR INFORMATION **S2**

Project: YSGOL PLAS BRONDYFFRYN

Drg Title: DRAINAGE GENERAL ARRANGEMENT

Drawn By	Designed By	Checked By
LB	JDB	AF
	Date: 11/02/2022	Scales @ A1: 1:500

Project No - Originator - Function - Spatial - Form - Discipline - Number: YPB - CUR - 00 - XX - DR - C - 92001

Revision: P07

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