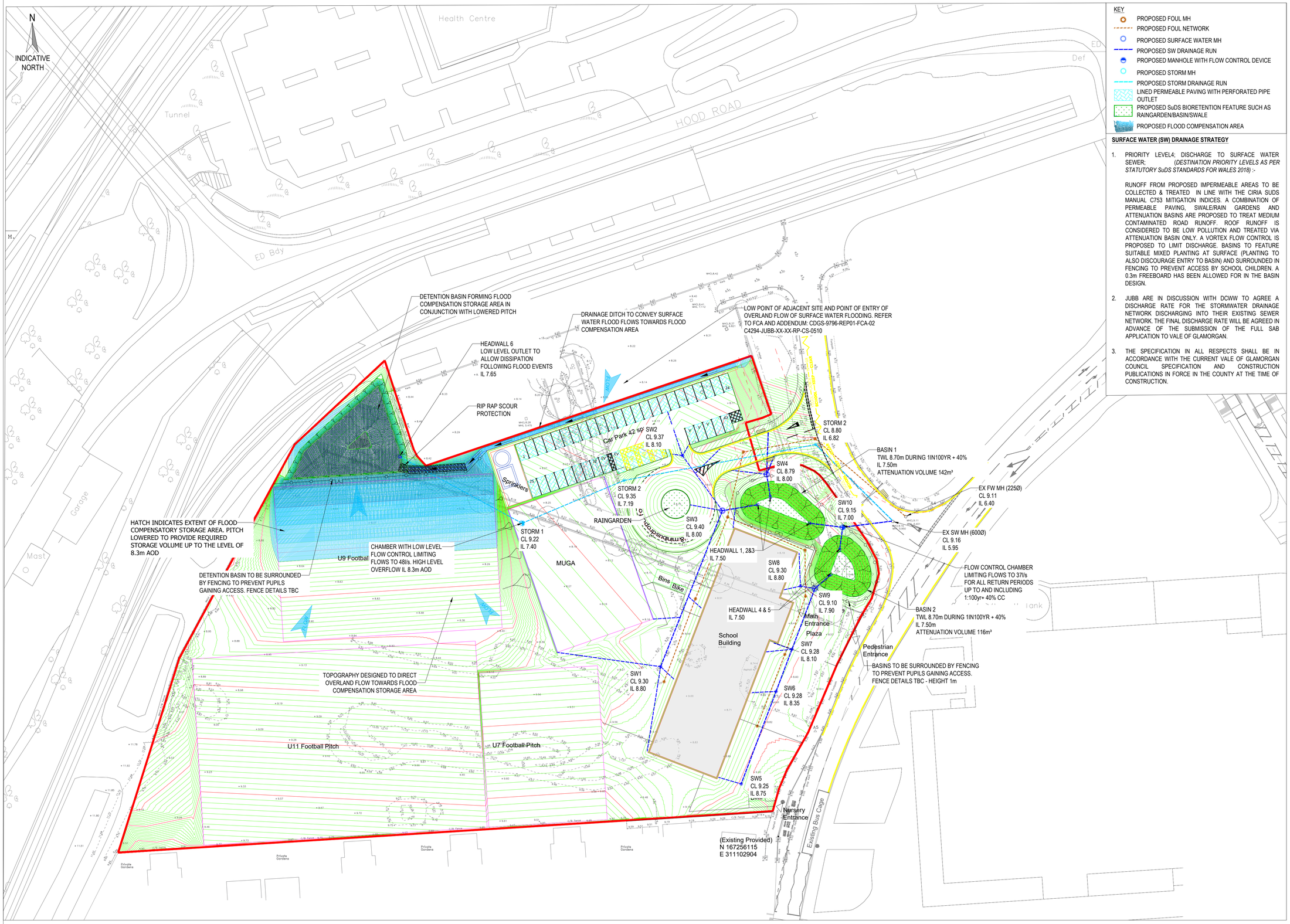

KEY

- PROPOSED FOUL MH
- PROPOSED FOUL NETWORK
- PROPOSED SURFACE WATER MH
- PROPOSED SW DRAINAGE RUN
- PROPOSED MANHOLE WITH FLOW CONTROL DEVICE
- PROPOSED STORM MH
- PROPOSED STORM DRAINAGE RUN
- LINED PERMEABLE PAVING WITH PERFORATED PIPE OUTLET
- PROPOSED SuDS BIORETENTION FEATURE SUCH AS RAINGARDEN/BASIN/SWALE
- PROPOSED FLOOD COMPENSATION AREA

SURFACE WATER (SW) DRAINAGE STRATEGY

1. PRIORITY LEVEL4; DISCHARGE TO SURFACE WATER SEWER; (*DESTINATION PRIORITY LEVELS AS PER STATUTORY SuDS STANDARDS FOR WALES 2018*) :-

   RUNOFF FROM PROPOSED IMPERMEABLE AREAS TO BE COLLECTED & TREATED IN LINE WITH THE CIRIA SUDS MANUAL C753 MITIGATION INDICES. A COMBINATION OF PERMEABLE PAVING, SWALE/RAIN GARDENS AND ATTENUATION BASINS ARE PROPOSED TO TREAT MEDIUM CONTAMINATED ROAD RUNOFF. ROOF RUNOFF IS CONSIDERED TO BE LOW POLLUTION AND TREATED VIA ATTENUATION BASIN ONLY. A VORTEX FLOW CONTROL IS PROPOSED TO LIMIT DISCHARGE. BASINS TO FEATURE SUITABLE MIXED PLANTING AT SURFACE (PLANTING TO ALSO DISCOURAGE ENTRY TO BASIN) AND SURROUNDED IN FENCING TO PREVENT ACCESS BY SCHOOL CHILDREN. A 0.3m FREEBOARD HAS BEEN ALLOWED FOR IN THE BASIN DESIGN.

2. JUBB ARE IN DISCUSSION WITH DCWW TO AGREE A DISCHARGE RATE FOR THE STORMWATER DRAINAGE NETWORK DISCHARGING INTO THEIR EXISTING SEWER NETWORK. THE FINAL DISCHARGE RATE WILL BE AGREED IN ADVANCE OF THE SUBMISSION OF THE FULL SAB APPLICATION TO VALE OF GLAMORGAN.

3. THE SPECIFICATION IN ALL RESPECTS SHALL BE IN ACCORDANCE WITH THE CURRENT VALE OF GLAMORGAN COUNCIL SPECIFICATION AND CONSTRUCTION PUBLICATIONS IN FORCE IN THE COUNTY AT THE TIME OF CONSTRUCTION.

NOTES:

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT ENGINEER'S & ARCHITECT'S DRAWINGS, TOGETHER WITH THEIR LATEST SPECIFICATIONS. ANY DISCREPANCIES ARE TO BE REPORTED TO THE ENGINEER (JUBB) IMMEDIATELY
2. ALL EXISTING MANHOLE INVERTS TO BE CHECKED AND REPORTED TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF DRAINAGE WORKS.
3. WHERE REQUIRED, EXISTING PIPE CONNECTIONS ARE TO BE CCTV SURVEYED AND INSPECTED BY THE ENGINEER AND LOCAL AUTHORITY. IF THE PIPE CONNECTION IS FOUND TO BE DAMAGED OR IN DISTRESS, THE CONTRACTOR IS TO CARRY OUT REMEDIAL WORKS OR PROVIDE A NEW CONNECTION TO THE EXISTING SEWER (PIPE SIZE AND GRADIENT TO BE DETERMINED BY THE ENGINEER
4. DEVELOPMENT SITE SUBJECT TO SAB APPROVAL PRIOR TO THE COMMENCEMENT OF WORKS.
5. MH COVERS AND FRAMES TO CONFORM TO BS EN 124. ALL TRAFFICKED COVERS TO CONFIRM TO C250 LOAD CLASS AND ALL NON-TRAFFICKED COVERS TO CONFORM TO B125.
6. PIPE WORK BEDDING; TYPE S BEDDING AND SURROUND TO ALL PIPES EXCEPT IN THE FOLLOWING CIRCUMSTANCES, IN WHICH TYPE Z BEDDING AND SURROUND ARE TO BE USED:-
   - 6.1. IN LANDSCAPED AREAS (INACCESSIBLE TO VEHICLES) WHERE DEPTH TO CROWN OF PIPE IS LESS THAN 0.35m
   - 6.2. IN AREAS OF SUBJECT TO POSSIBLE VEHICULAR LOADING (E.G. DRIVEWAYS OR ROADS) WHERE DEPTH IS LESS THAN 1.2m
7. ALL SURFACE WATER DRAINAGE TO BE MINIMUM, DN150mm TWINWALL AND MANUFACTURED TO BS-EN 1401 AND BS 4660 UNLESS NOTED OTHERWISE.
8. ALL RWPs TO BE FITTED WITH RODDABLE GULLIES AT JUNCTURE WITH GROUND
9. ALL PROPOSED DRAINAGE TO BE INSTALLED TO SEWERS FOR ADOPTION 7th EDITION STANDARD AND BUILDING REGULATIONS PART H REQUIREMENTS.
10. SuDS FEATURES TO BE DESIGNED, CONSTRUCTED & MAINTAINED IN LINE WITH GUIDANCE OF CIRIA REPORT C753 'THE SuDS MANUAL' & 'STATUTORY SuDS STANDARDS FOR WALES 2018'
11. ATTENUATION BASINS INCLUDE 1:3 SIDES & 0.3m ALLOWANCE FOR FREEBOARD

Rev	Date	Description	By	Apvd
P2	02.03.21	UPDATED LAYOUT	AH	GS
P1	21.01.21	Preliminary issue	ME	GS

PROJECT:
BARRY WATERFRONT SCHOOL

TITLE:
PROPOSED DRAINAGE LAYOUT

CLIENT:
GALLIFORD TRY CONSTRUCTION

SCALE@A1:
1:500

PROJECT REF: 20111
STATUS: S0
DRAWING No: C4294-JUBB-XX-XX-DR-CS-0500
REV: P2

Revision Referencing
P = Preliminary A = Approval T = Tender C = Construction

Bristol, Cardiff, Plymouth, Winchester
2A Oak Tree Court, Cardiff Gate Business Park, Cardiff
jubb.uk.com
+44(0)292 052 4444