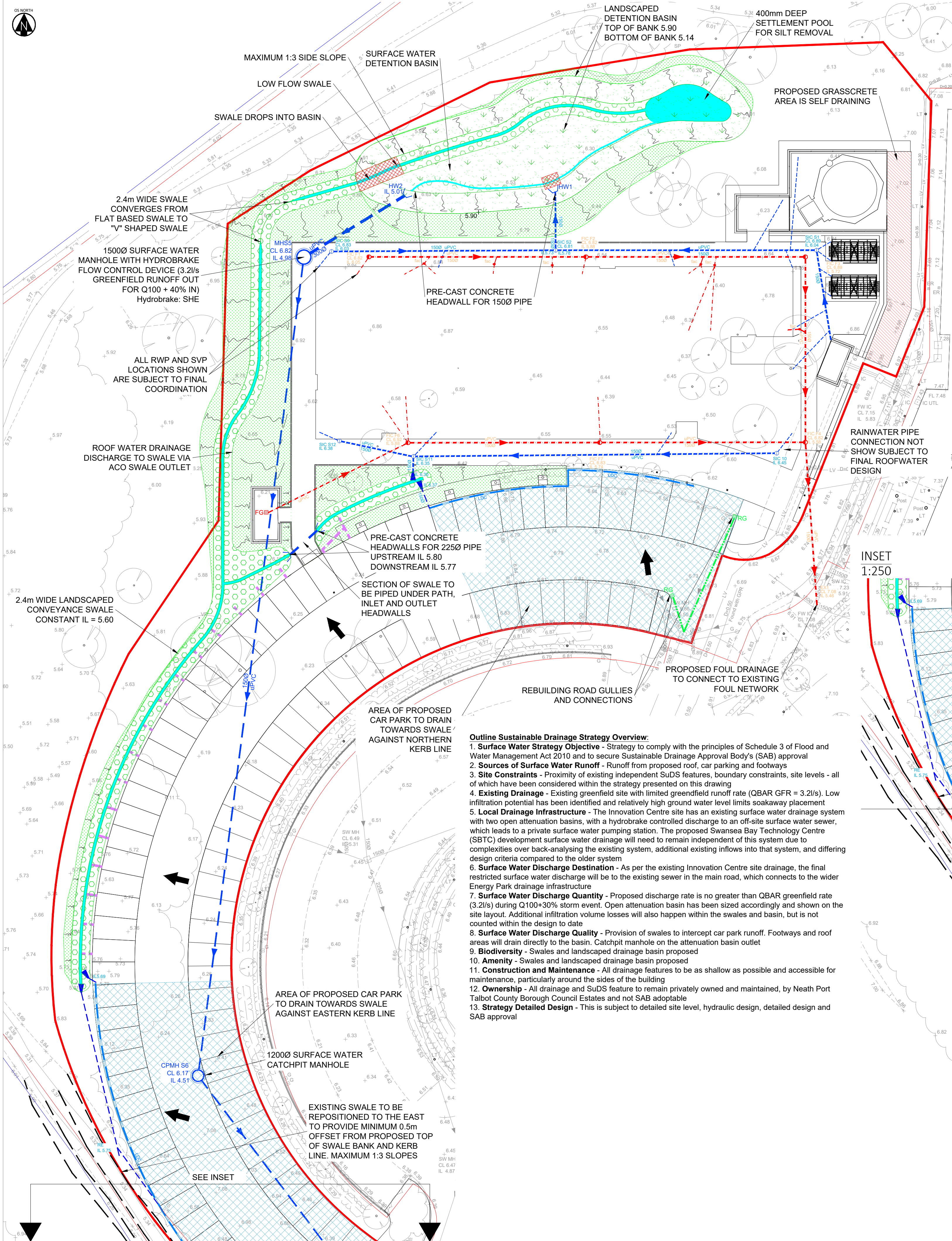


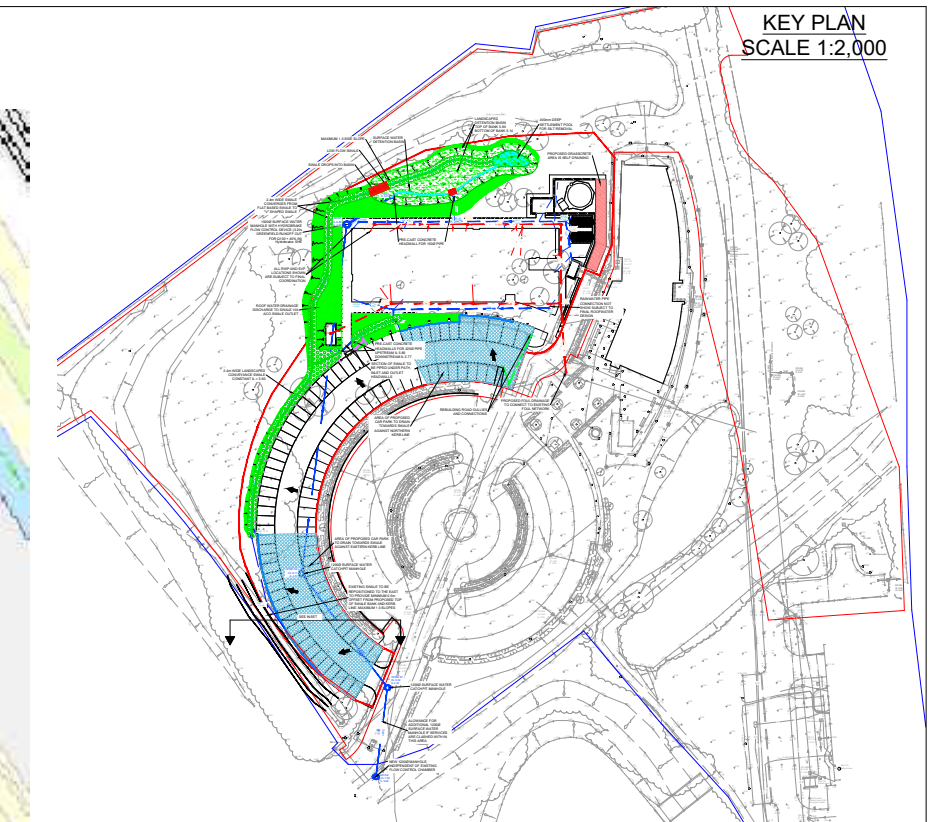
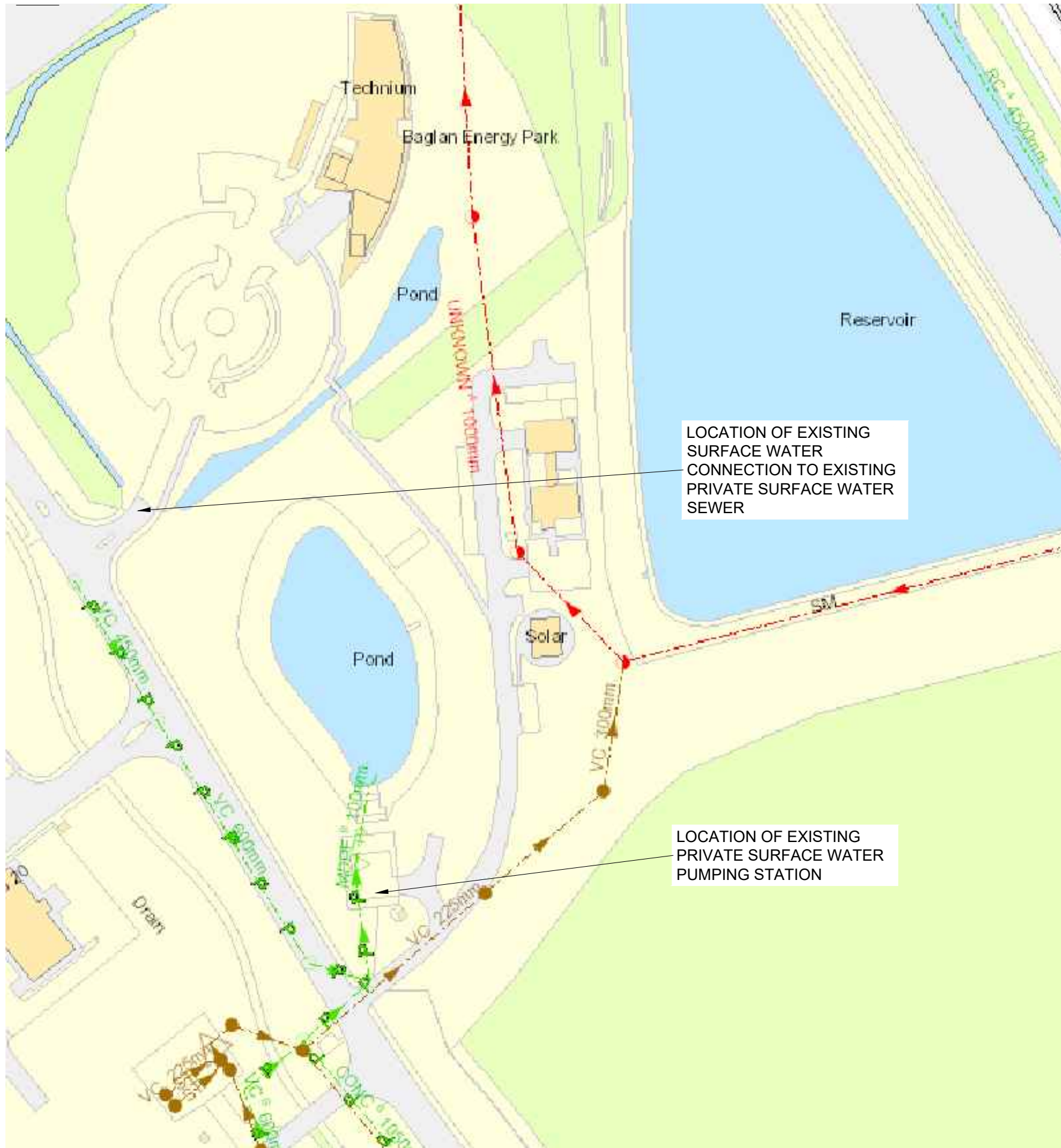
1:250



Outline Sustainable Drainage Strategy Overview:

1. **Surface Water Strategy Objective** - Strategy to comply with the principles of Schedule 3 of Flood and Water Management Act 2010 and to secure Sustainable Drainage Approval Body's (SAB) approval
2. **Sources of Surface Water Runoff** - Runoff from proposed roof, car parking and footways
3. **Site Constraints** - Proximity of existing independent SuDS features, boundary constraints, site levels - all of which have been considered within the strategy presented on this drawing
4. **Existing Drainage** - Existing greenfield site with limited greenfield runoff rate (QBAR GFR = 3.2l/s). Low infiltration potential has been identified and relatively high ground water level limits soakaway placement
5. **Local Drainage Infrastructure** - The Innovation Centre site has an existing surface water drainage system with two open attenuation basins, with a hydrobrake controlled discharge to an off-site surface water sewer, which feeds to a private surface water pumping station. The proposed Swansea Bay Technology Centre (SBTC) development surface water drainage will need to remain independent of this system due to complexities over back-analysing the existing system, additional existing inflows into that system, and differing design criteria compared to the older system
6. **Surface Water Discharge Destination** - As per the existing Innovation Centre site drainage, the final restricted surface water discharge will be to the existing sewer in the main road, which connects to the wider Energy Park drainage infrastructure
7. **Surface Water Discharge Quantity** - Proposed discharge rate is no greater than QBAR greenfield rate (3.2l/s) during Q100+30% storm event. Open attenuation basin has been sized accordingly and shown on the site layout. Additional infiltration volume losses will also happen within the swales and basin, but is not counted within the design to date
8. **Surface Water Discharge Quality** - Provision of swales to intercept car park runoff. Footways and roof areas will drain directly to the basin. Catchpit manhole on the attenuation basin outlet
9. **Biodiversity** - Swales and landscaped drainage basin proposed
10. **Amenity** - Swales and landscaped drainage basin proposed
11. **Construction and Maintenance** - All drainage features to be as shallow as possible and accessible for maintenance, particularly around the sides of the building
12. **Ownership** - All drainage and SuDS feature to remain privately owned and maintained, by Neath Port Talbot County Borough Council Estates and not SAB adoptable
13. **Strategy Detailed Design** - This subject to detailed site level, hydraulic design, detailed design and SAB approval

NTS



DRAINAGE KEY	
	EXTENT OF DRAINAGE CAPTCHMENT AREA
	PROPOSED SURFACE SEWER MANHOLE
	FOUL WATER INSPECTION CHAMBER (PVCU 450mm DIA. Max 1.2m depth)
	SURFACE WATER INSPECTION CHAMBER (PVCU 450mm DIA. Max 1.2m depth)
	SURFACE WATER SWALE LINK PIPE
	PROPOSED HEADWALL
	PROPOSED SWALE OUTLET
	PROPOSED ROAD GULLY
	PROPOSED FLOOR GULLY
	PROPOSED RODDING EYE
	ACO MULTIDRAIN M200PPD 0.0J CHANNEL
	PROPOSED GRASSCREEP. REFER TO DRAWING 26X003-URB-XX-XX-DR-L-90-0022 FOR CONSTRUCTION DETAIL
	AREA TO BE DRAINED TOWARDS SWALE AGAINST KERBLINE
	PROPOSED DETENTION BASIN
	PROPOSED SLOPE
	PROPOSED LANDSCAPED CONVEYANCE SWALE
	PROPOSED SURFACE WATER FLOWPATH DIRECTION
	LOCAL DEPRESSION OF VERGE GROUND LEVEL TO CHANNEL SURFACE WATER FLOWS TO SWALE

**FOR CROSS SECTIONS SEE HYDROCK DRAWING
26X003-HYD-XX-XX-DR-C-2500**

REVISIONS						
Rev	Date	Description	By	Ckd	App	
P03	15/06/20	Issued for Costing	JSL	RB	RB	
P02	22/05/20	Car park swale length amended to avoid existing tree protection zone	JSL	RB	RB	
P01	19/05/20	First Issue	JSL	RB	RB	

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CLIENT
MORGAN SINDALL

PROJECT
SWANSEA BAY TECHNOLOGY CENTRE

TITLE
DRAINAGE LAYOUT

HYDROCK PROJECT NO.	SCALE @ A1
C-11852-C	AS SHOWN
STATUS DESCRIPTION	STATUS
COSTING	D1
DRAWING NO. (PROJECT CODE-ORIGINATOR-ZONE-LEVEL-TYPE-ROLE-NUMBER)	REVISION
26X003-HYD-XX-XX-DR-C-90-0600	P03