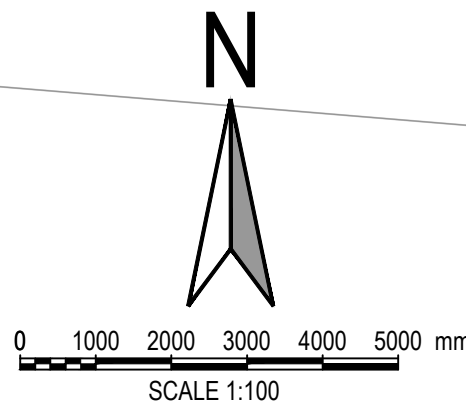
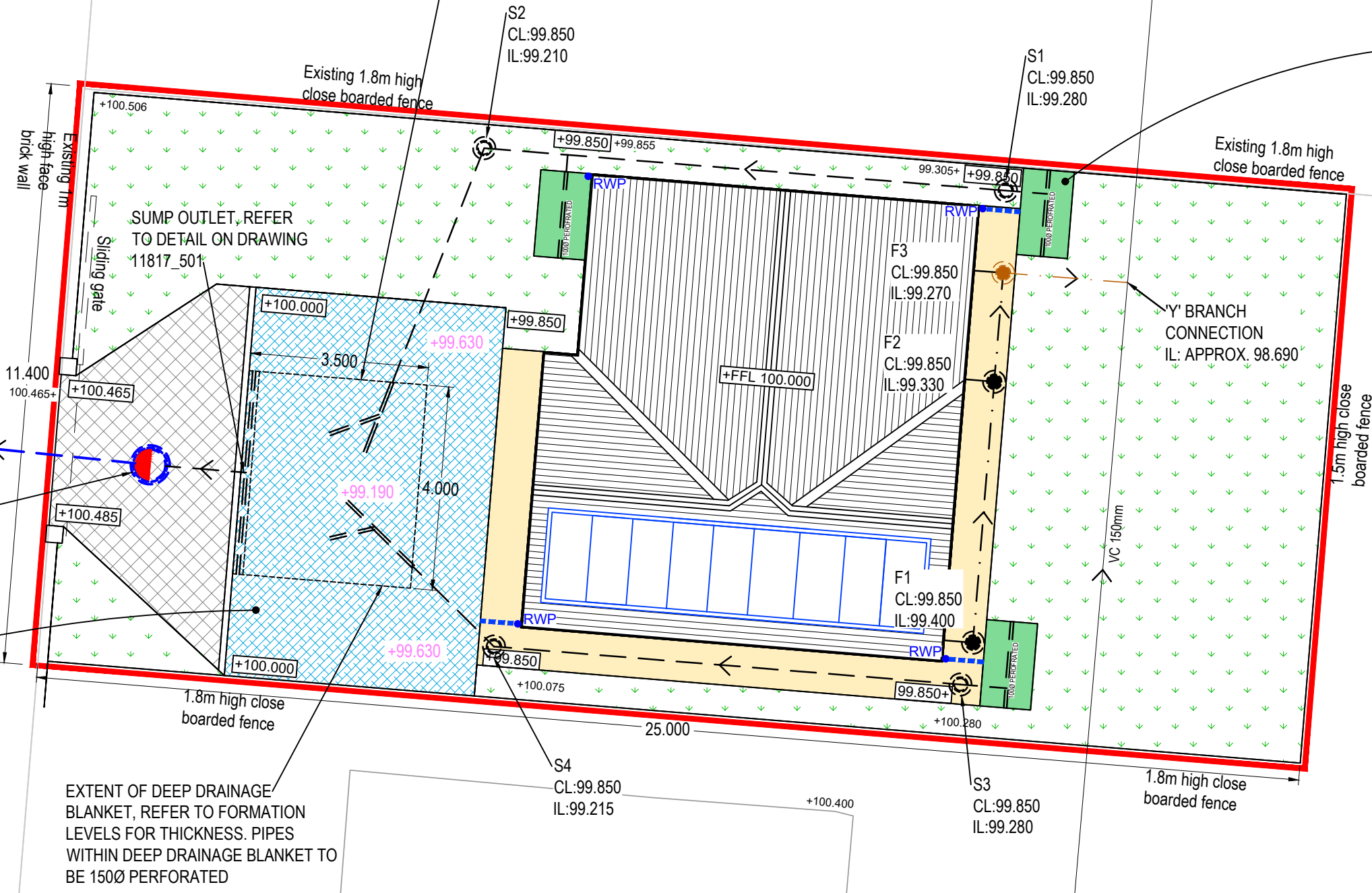




Criccieth Grove

No. 42 Kidwelly Grove

EXCEEDANCE FLOWS
THE DRAINAGE SYSTEM IS DESIGNED TO SURCHARGE DURING STORM EVENTS ALLOWING THE STORAGE VOLUME PROVIDED IN THE CGA SUB-BASE BENEATH THE POROUS ASPHALT DRIVEWAY TO ATTENUATE SURFACE WATER PRIOR TO DISCHARGE VIA THE FLOW CONTROL. THE SYSTEM IS DESIGNED FOR EVENTS UP TO AND INCLUDING THE CRITICAL 1 IN 100-YEAR STORM EVENT + 40% CLIMATE CHANGE ALLOWANCE. IN EVENTS EXCEEDING THIS THE SYSTEM COULD SURCHARGE BEYOND ITS DESIGN LIMIT. IN THIS CASE, AN OVERFLOW PROVIDED IN THE FLOW CONTROL CHAMBER WILL ALLOW FLOWS TO DISCHARGE TO THE SEWER AT AN UNFETTERED RATE.



TYPICAL IMAGE OF A BIORETENTION RAINGARDEN



TYPICAL IMAGE OF A POROUS ASPHALT DRIVEWAY

LEGEND

- POROUS ASPHALT
- TRADITIONAL ASPHALT CONSTRUCTION
- PAVING TO ARCHITECTS REQUIREMENTS
- GRASS / SOFT LANDSCAPING
- BIORETENTION RAINGARDEN
- EXISTING LEVEL
- PROPOSED LEVEL
- SITE BOUNDARY

DRAINAGE LEGEND

- PROPOSED ADAPTABLE SURFACE WATER DRAINAGE
- PROPOSED ADAPTABLE FOUL WATER DRAINAGE
- EXISTING COMBINED DRAINAGE
- EXISTING SURFACE WATER DRAINAGE
- DENOTES PRIVATE FW DRAINAGE
- DENOTES PRIVATE SW DRAINAGE
- DENOTES PRIVATE SW DRAINAGE - PERFORATED PIPE
- PROPOSED RAINWATER PIPE
- DENOTES FLOW CONTROL CHAMBER
- CONCRETE OR COBBLESTONE DISHED CHANNEL DRAIN
- DRAINAGE BLANKET FORMATION LEVEL

NOTES:

- MH COVERS AND FRAMES TO CONFORM TO BS EN 124:
 - HIGHWAYS AND PUBLIC CAR PARKS (D400)
 - LIGHTLY TRAFFICKED ROADS AND PRIVATE CAR PARKS (C250)
 - DOMESTIC DRIVEWAYS (B125)
- TYPE S BEDDING AND SURROUND TO ALL PIPES EXCEPT IN THE FOLLOWING CIRCUMSTANCES, IN WHICH TYPE Z BEDDING AND SURROUND ARE TO BE USED:
 - DOMESTIC GARDENS AND PATHWAYS WITHOUT ANY POSSIBILITY OF VEHICULAR ACCESS, 0.35m;
 - DOMESTIC DRIVEWAYS, PARKING AREAS AND YARDS WITH HEIGHT RESTRICTIONS TO PREVENT ENTRY BY VEHICLES WITH A GROSS VEHICLE WEIGHT IN EXCESS OF 7.5 TONNES, 0.5m;
 - DOMESTIC DRIVEWAYS, PARKING AREAS AND NARROW STREETS WITHOUT FOOTWAYS (E.G., MEWS DEVELOPMENTS) WITH LIMITED ACCESS FOR VEHICLES WITH A GROSS VEHICLE WEIGHT IN EXCESS OF 7.5 TONNES, 0.9m;
 - AGRICULTURAL LAND AND PUBLIC OPEN SPACE, 0.9m;
 - OTHER HIGHWAYS AND PARKING AREAS WITH UNRESTRICTED ACCESS TO VEHICLES WITH A GROSS VEHICLE WEIGHT IN EXCESS OF 7.5 TONNES, 1.2m.
- ALL EXISTING MANHOLE INVERTS TO BE CHECKED AND REPORTED TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF DRAINAGE WORKS. EXISTING PIPE CONNECTIONS ARE TO BE CCTV SURVEYED AND INSPECTED. 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).
- THE CONTRACTOR SHALL INSTALL DRAINS TO THE INVERT LEVELS SHOWN FOR EACH MANHOLE OR OTHER INDICATED POSITION.
- ALL FOUL DRAINAGE TO BE MINIMUM 100mm DIAMETER AND LAID TO THE INVERT LEVELS SHOWN OR A MINIMUM 1 IN 100 FALL, UNLESS OTHERWISE NOTED.
- ALL STORM WATER DRAINAGE TO BE A MINIMUM OF 150mm DIAMETER AND LAID TO THE INVERT LEVELS SHOWN OR A MINIMUM 1 IN 150 FALL, UNLESS OTHERWISE NOTED.
- ALL ADAPTABLE THERMOPLASTIC STRUCTURED WALL SEWER PIPE SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS EN 13476-1 AND WIS 4-35-01 AND BS EN 13476-2 OR BS EN 13476-3. PIPES SHALL BE BSI KITEMARKED OR HAVE EQUIVALENT THIRD PARTY CERTIFICATION. PIPES LESS THAN OR EQUAL TO 500mm DIA. SHALL HAVE A SHORT-TERM RING STIFFNESS OF NOT LESS THAN 8kN/m² (SN8).
- ALL JOINTING IN ACCORDANCE WITH MANUFACTURERS TECHNICAL ADVICE & SPECIFICATION.
- ALL NON ADAPTABLE DRAINAGE TO BE THE STANDARD UPVC 110mm, 160mm DRAINAGE AND MANUFACTURED TO BS-EN 1401 AND BS 4660 UNLESS NOTED OTHERWISE.
- SOIL & VENT PIPE LOCATION AND NUMBER TO BE CONFIRMED WITH ARCHITECT.
- THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT ENGINEERS DRAWINGS, TOGETHER WITH THEIR LATEST SPECIFICATIONS. ANY DISCREPANCIES ARE TO BE REPORTED TO THE ENGINEER AS SOON AS POSSIBLE.
- FIGURED DIMENSIONS ONLY TO BE USED. ANY QUERIES OR DISCREPANCIES TO BE REFERRED TO THE ENGINEER.
- PRIOR TO ORDERING ANY MATERIALS THE CONTRACTOR IS TO CONFIRM MANUFACTURER/PIPE MATERIAL AND GRADE PROPOSED WITH WATER AUTHORITY.
- DESIGN RISK ASSESSMENTS AND METHOD STATEMENTS ARE TO BE PROVIDED TO THE PRINCIPLE CONTRACTOR PRIOR TO THE COMMENCEMENT OF ANY WORKS.

01	FP	MJ	MJ	11.01.21	Issue for SAB approval

rev.	drawn	chd.	approved	date	description
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Client
LEE PICKETT

Project
**6 CRICCIETH GROVE,
MERTHYR TYDFIL,
CF48 1JY**

Title
DRAINAGE PLAN



date	drawn	checked	approved
11.01.21	FP	MJ	MJ

scale @ A1	project no.
1:100	11817

status	drg. no.	rev.
A	11817_500	01