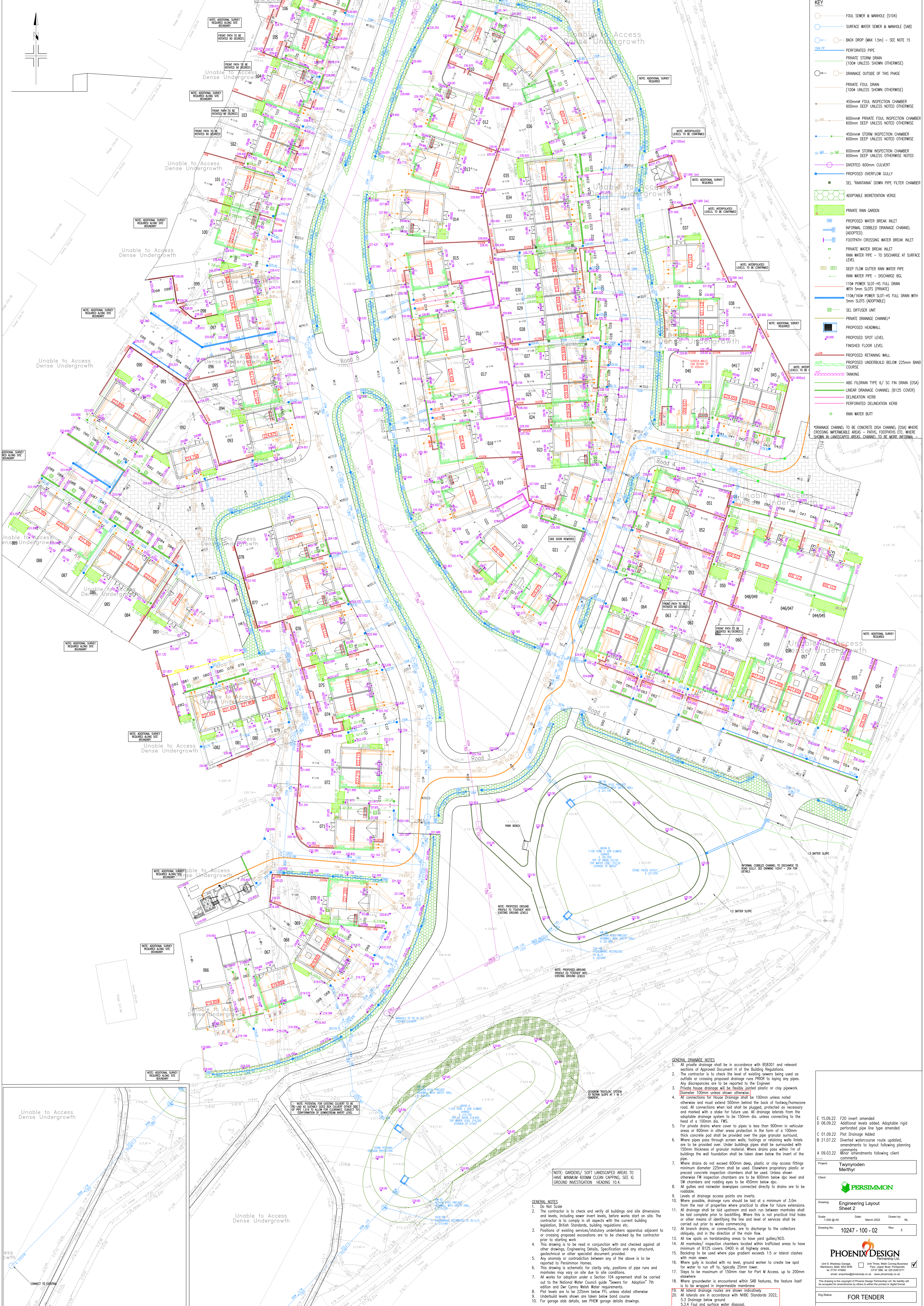




KEY

- FOUL SEWER & MANHOLE (S104)
- SURFACE WATER SEWER & MANHOLE (SAB)
- BACK DROP (MAX 1.5m) - SEE NOTE 15
- PERFORATED PIPE
- PRIVATE STORM DRAIN (100mm UNLESS SHOWN OTHERWISE)
- DRAINAGE OUTSIDE OF THIS PHASE
- PRIVATE FOUL DRAIN (100mm UNLESS SHOWN OTHERWISE)
- 450mm Foul Inspection Chamber 600mm DEEP UNLESS NOTED OTHERWISE
- 600mm PRIVATE Foul Inspection Chamber 600mm DEEP UNLESS NOTED OTHERWISE
- 450mm Storm Inspection Chamber 600mm DEEP UNLESS NOTED OTHERWISE
- 600mm Storm Inspection Chamber 600mm DEEP UNLESS NOTED OTHERWISE
- DIVERTED 600mm CULVERT
- PROPOSED OVERFLOW GULLY
- SEL "RAINWATER" DOWN PIPE FILTER CHAMBER
- ADAPTABLE BORETENTION VERGE
- PRIVATE RAIN GARDEN
- PROPOSED WATER BREAK INLET
- INFORMAL CORBELLED DRAINAGE CHANNEL (ADOPTED)
- FOOTPATH CROSSING WATER BREAK INLET
- PRIVATE WATER BREAK INLET
- RAIN WATER PIPE - TO DISCHARGE AT SURFACE LEVEL
- DEEP FLOW GUTTER RAIN WATER PIPE
- RAIN WATER PIPE - DISCHARGE BGL
- 110mm POWER SLOTT-HS FULL DRAIN WITH 5mm SLOTS (PRIVATE)
- 110mm POWER SLOTT-HS FULL DRAIN WITH 5mm SLOTS (ADAPTABLE)
- SEL DIFFUSER UNIT
- PRIVATE DRAINAGE CHANNEL*
- PROPOSED HEADWALL
- PROPOSED SPOT LEVEL
- FINISHED FLOOR LEVEL
- PROPOSED RETAINING WALL
- PROPOSED UNDERBUILT BELOW 225mm BAND COURSE
- TANKING
- ABG FLDRAIN TYPE 6/ SC FIN DRAIN (OSA)
- LINEAR DRAINAGE CHANNEL (B125 COVER)
- DELINERATION KERB
- PERFORATED DELINERATION KERB
- RAIN WATER BUTT

*DRAINAGE CHANNEL TO BE CONCRETE DISH CHANNEL (OSA) WHERE CROSSING IMPERMEABLE AREAS - PATHS, FOOTPATHS ETC. WHERE CHANNEL LANDSCAPED AREAS, CHANNEL TO BE WIDE, INFORMAL

GENERAL DRAINAGE NOTES

- All private drainage shall be in accordance with BS8301 and relevant sections of Approved Document H of the Building Regulations.
- The contractor is to check the level of existing sewers being used as outfalls or crossing proposed drainage runs PRIOR to laying any pipes. Any discrepancies are to be reported to the Engineer.
- Private house drainage will be flexible, jointed plastic or clay pipework. (Diameter 100mm unless shown otherwise)
- All connections for House Drainage shall be 100mm unless noted otherwise and must extend 500mm behind the back of footpath/homezone road. All connections when laid shall be plugged, protected as necessary and marked with a stake for future use. All drainage laterals from the adoptable drainage system to be 150mm dia. unless connecting to the head of a 100mm dia. FWS.
- For private drains where cover to pipes is less than 900mm in vehicular areas or 600mm in other areas protection in the form of a 100mm thick concrete pad shall be provided over the pipe granular surround. Where pipes pass through screen walls, footings or retaining walls laterals are to be provided over. Under buildings pipes shall be surrounded with 150mm thickness of granular material. Where drains pass within 1m of buildings the wall foundation shall be taken down below the invert of the pipe.
- Where drains do not exceed 600mm deep, plastic or clay access fittings minimum diameter 225mm shall be used. Elsewhere proprietary plastic or precast concrete inspection chambers shall be used. Unless shown otherwise 1W inspection chambers are to be 600mm below dpc level and 500mm below ground level.
- All gullies and rainwater downpipes connected directly to drains are to be roadable.
- Levels of drainage access points are inverts.
- Where possible, drainage runs should be laid at a minimum of 3.0m from the rear of properties where practical to allow for future extensions.
- All drainage shall be laid upstream and each run between manholes shall be laid complete prior to backfilling. Where this is not practical trial holes are to be provided over. Under buildings pipes shall be surrounded with 150mm thickness of granular material. Where drains pass within 1m of buildings the wall foundation shall be taken down below the invert of the pipe.
- All branch drains, or connections, are to discharge to the collectors.
- All manholes/ inspection chambers located within trafficked areas to have minimum of B125 covers. B400 in all highway areas.
- Backfilling to be used where pipe gradient exceeds 1:5 or lateral clashes with main sewer.
- Where gully is located with no level, ground worker to create low splash for water to run off to, typically 25mm level.
- Steps to be maximum of 150mm riser for Part M Access: up to 200mm elsewhere.
- Where groundwater is encountered within SAB features, the feature itself is to be wrapped in impermeable membrane.
- All lateral drainage routes are shown indicatively.
- All laterals are in accordance with NWC Standards 2022.
- 5.3 Drainage below ground.
- 5.3.4 Foul and surface water disposal.

Project:	Twynrodren Merthyr
Client:	PERSIMMON
Drawing:	Engineering Layout Sheet 2
Scale:	1:250 AD
Date:	March 2022
Drawn by:	HL
Drawing No:	10247 - 100 - 02
Rev:	E

PHOENIX DESIGN
Partnership Ltd.
Unit Three, Main Centre Business
Merthyr Tydfil, South Wales
CF47 9BE
Tel: 01171 696000
Email: enquiries@phoenixdesign.co.uk
www.phoenixdesign.co.uk

This drawing is the copyright of Phoenix Design Partnership Ltd. No liability will be accepted for errors or omissions to others by the printed or digital format.

Dwg Status: **FOR TENDER**