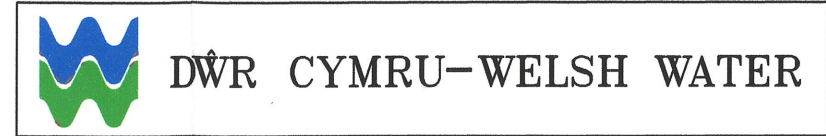
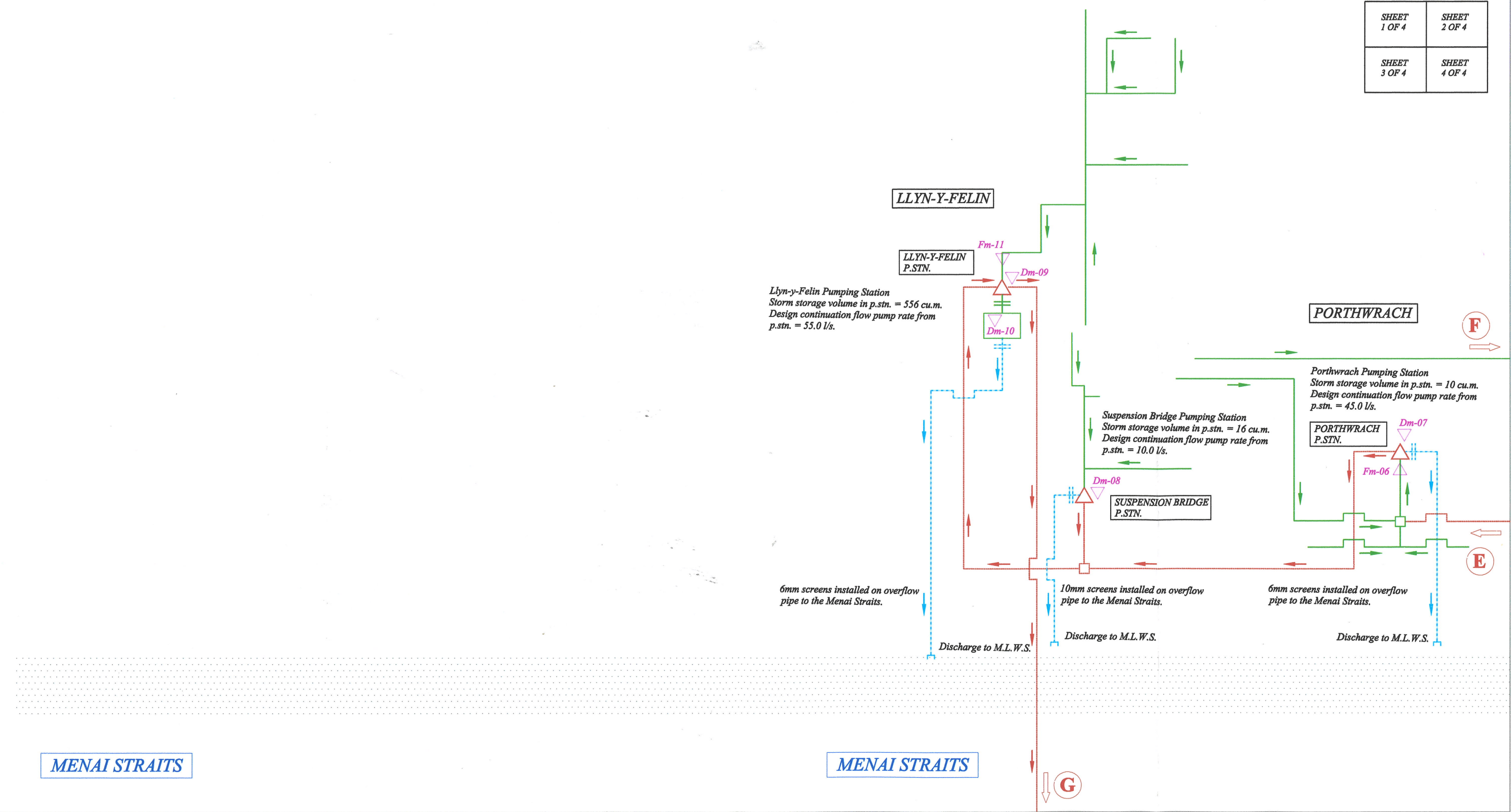


**TREBORTH CATCHMENT.**  
**FIGURE 4 - MODEL SCHEMATIC (SHEET 1 OF 4)**  
**EXISTING SEWER NETWORK**



SHEET 1 OF 4	SHEET 2 OF 4
SHEET 3 OF 4	SHEET 4 OF 4



MENAI STRAITS

MENAI STRAITS

**TREBORTH CATCHMENT.**  
**FIGURE 4 - MODEL SCHEMATIC (SHEET 2 OF 4)**  
**EXISTING SEWER NETWORK**



**DWR CYMRU-WELSH WATER**

SHEET 1 OF 4	SHEET 2 OF 4
SHEET 3 OF 4	SHEET 4 OF 4

**Llandegfan Pumping Station - CSO chamber**  
 G.L. = 62.10m  
 Manhole reference No: SH56740299  
 Chamber size = 0.900m x 0.910m  
 Incoming comb. pipe diameter = 150mm  
 I.L. incoming comb. pipe = 61.23m  
 Outgoing comb. pipe diameter = 150mm  
 I.L. outgoing comb. pipe = 61.21m  
 Overflow pipe diameter = 225mm  
 I.L. overflow pipe = 61.22m  
 Low level weir installed in chamber  
 Weir level = 61.44m.  
 Weir length = 0.910m

**Llandegfan Pumping Station**  
 G.L. = 62.19m  
 Manhole reference No: SH56740250  
 Wet Well size = 1.53m x 2.45m  
 Incoming Foul pipe dia. = 150mm  
 I.L. incoming pipe = 61.19m  
 Overflow upstream of pumping station  
 in separate chamber.  
 2 No. pumps - duty/standby  
 Duty Pump - On level = 60.08m  
 Duty Pump - Off level = 59.96m  
 Duty Pump flow rate = 1.4 l/s

**Llansadwrn Pumping Station - CSO chamber**  
 G.L. = 90.62m  
 Manhole reference No: SH56753701  
 Chamber size = 1.240m x 0.920m  
 Incoming comb. pipe diameter = 150mm  
 I.L. incoming comb. pipe = 88.51m  
 Outgoing comb. pipe diameter = 150mm  
 I.L. outgoing comb. pipe = 88.49m  
 Overflow pipe diameter = 150mm  
 I.L. overflow pipe = 89.67m  
 Dip pipe installed on overflow with 6mm  
 gaps to screen spills.

**Llansadwrn Pumping Station**  
 G.L. = 90.79m  
 Manhole reference No: SH56753750  
 Wet Well size = 2.15m dia  
 Incoming Foul pipe dia. = 150mm  
 I.L. incoming pipe = 88.18m  
 Overflow upstream of pumping station  
 in separate chamber.  
 2 No. pumps - duty/assist.  
 Duty Pump - On level = 87.96m  
 Duty Pump - Off level = 87.28m  
 Assist Pump - On level = 88.26m  
 Assist Pump - Off level = 87.33m  
 Duty Pump flow rate = 22 l/s  
 Duty & Assist pump flow rate = 26 l/s

**Llansadwrn Pumping Station rising main  
 discharges into manhole chamber reference  
 SH57741905**

**Llandegfan Pumping Station rising main  
 discharges into manhole chamber reference  
 SH56745004**

**Glyn Garth Pumping Station**  
 G.L. = 4.98m  
 Manhole reference No: SH57734601  
 Wet Well size = 2.43m x 1.53m  
 Incoming Foul pipe dia. = 150mm  
 I.L. incoming pipe = 3.56  
 Incoming Foul pipe dia. = 150mm  
 I.L. incoming pipe = 3.59  
 Overflow pipe from Wet Well dia = 150mm  
 I.L. overflow pipe = 4.14m  
 10mm bar screen installed on overflow pipe  
 2 No. pumps - duty/standby  
 Duty Pump - On level = 2.92m  
 Duty Pump - Off level = 2.57m  
 Duty Pump flow rate = 1.0 l/s

**Llandegfan (Menai) Pumping Station**  
 G.L. = 5.87m  
 Manhole reference No: SH56722850  
 Wet Well = 2.10m diameter  
 Incoming Foul pipe dia. = 150mm  
 I.L. incoming pipe = 3.77m  
 No overflow direct from wet well  
 Overflow upstream of pumping station  
 in separate chamber.  
 2 No. pumps - duty/standby  
 Duty Pump - On level = 4.17m  
 Duty Pump - Off level = 3.32m  
 Duty Pump flow rate = 11 l/s

**Llandegfan (Menai) Pumping Station  
 Overflow chamber - Mh ref. No. SH56722801**  
 450mm incoming pipe - I.L. = 3.99m  
 Weir level = 4.75m Length of weir = 0.600m

**Rhianfa Pumping Station**  
 G.L. = 5.39m  
 Manhole reference No: SH57730350  
 Wet Well size = 2.06m x 1.54m  
 Incoming Foul pipe dia. = 150mm  
 I.L. incoming pipe = 3.82m  
 High level overflow pipe from Wet  
 Well, diameter = 150mm  
 I.L. overflow pipe = 4.16m  
 25mm bar Screen installed on overflow  
 2 No. pumps - duty/standby  
 Duty Pump - On level = 3.41m  
 Duty Pump - Off level = 3.01m  
 Duty Pump flow rate = 0.6 l/s

**Llandegfan (Menai) Pumping Station**  
 Excess storm flows spill to storage tanks  
 2 sets of tanks in total - approximate total  
 storage volume of tanks = 425 cu.m.  
 Stored flows are returned by pumps to the  
 overflow chamber.

6mm screens installed on overflow  
 pipe to the Menai Straits.  
 Discharge to M.L.W.S.

**Faelog Causeway Pumping Station**  
 Storm storage volume in p.stn. = 81 cu.m.  
 Design continuation flow pump rate from  
 p.stn. = 41.7 l/s.

**FAELOG CAUSEWAY  
 P.STN.**

6mm screens installed on overflow  
 pipe to the Menai Straits.

Discharge to M.L.W.S.

Pumped return from  
 storm tanks.

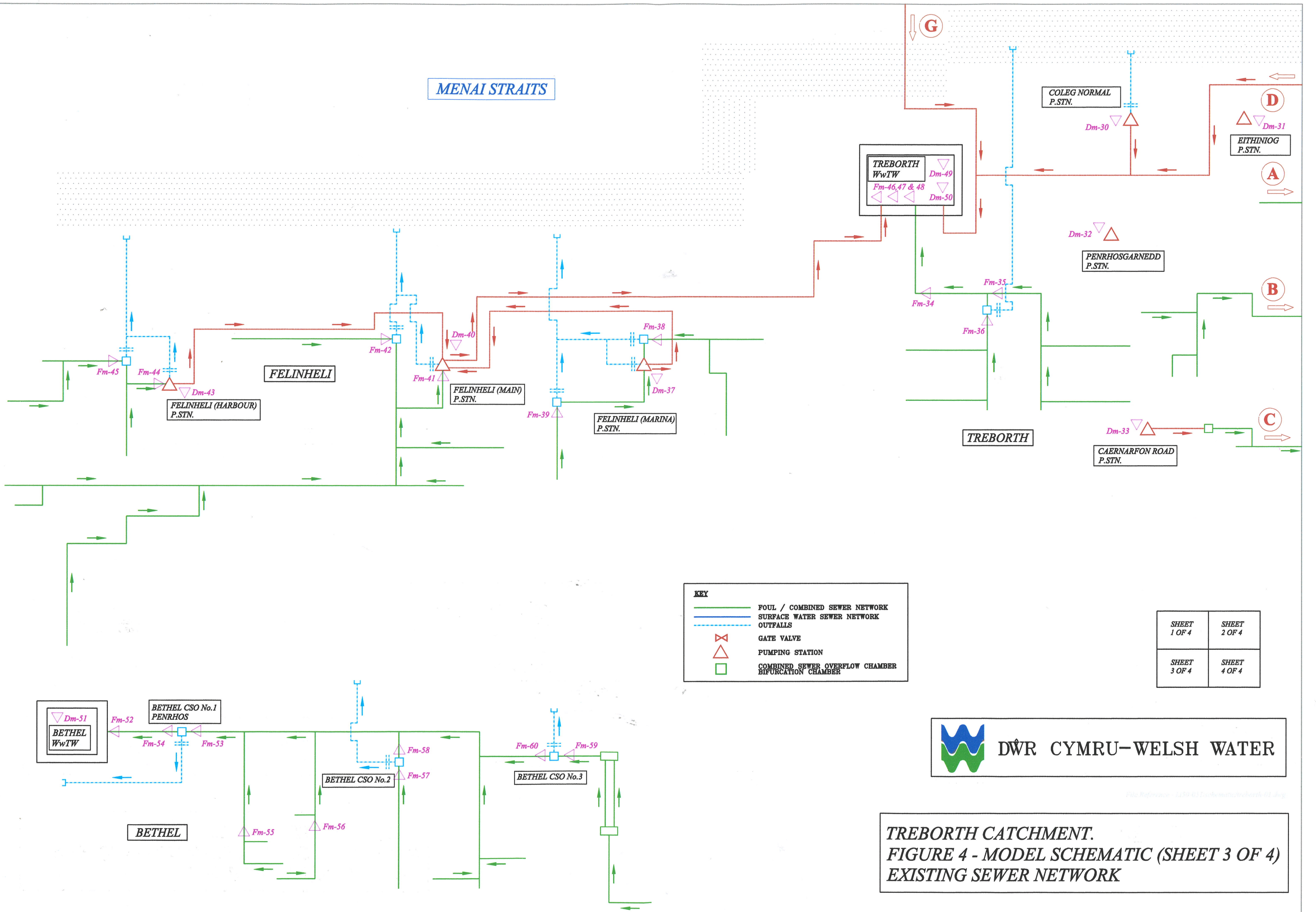
**LLANDEGFAN**

**MENAI STRAITS**

**MENAI STRAITS**

**F**

**E**



MENAI STRAITS

TREBORTH WwTW  
Fm-46,47 & 48  
Dm-49  
Dm-50

COLEG NORMAL P.STN.

EITHINIOG P.STN.

PENRHOSGARNEDD P.STN.

FELINHEILI

FELINHEILI (HARBOUR) P.STN.

FELINHEILI (MAIN) P.STN.

FELINHEILI (MARINA) P.STN.

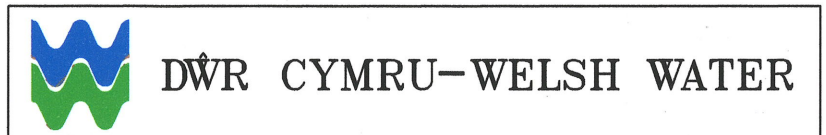
TREBORTH

CAERNARFON ROAD P.STN.

**KEY**

	FOUL / COMBINED SEWER NETWORK
	SURFACE WATER SEWER NETWORK
	OUTFALLS
	GATE VALVE
	PUMPING STATION
	COMBINED SEWER OVERFLOW CHAMBER BIFURCATION CHAMBER

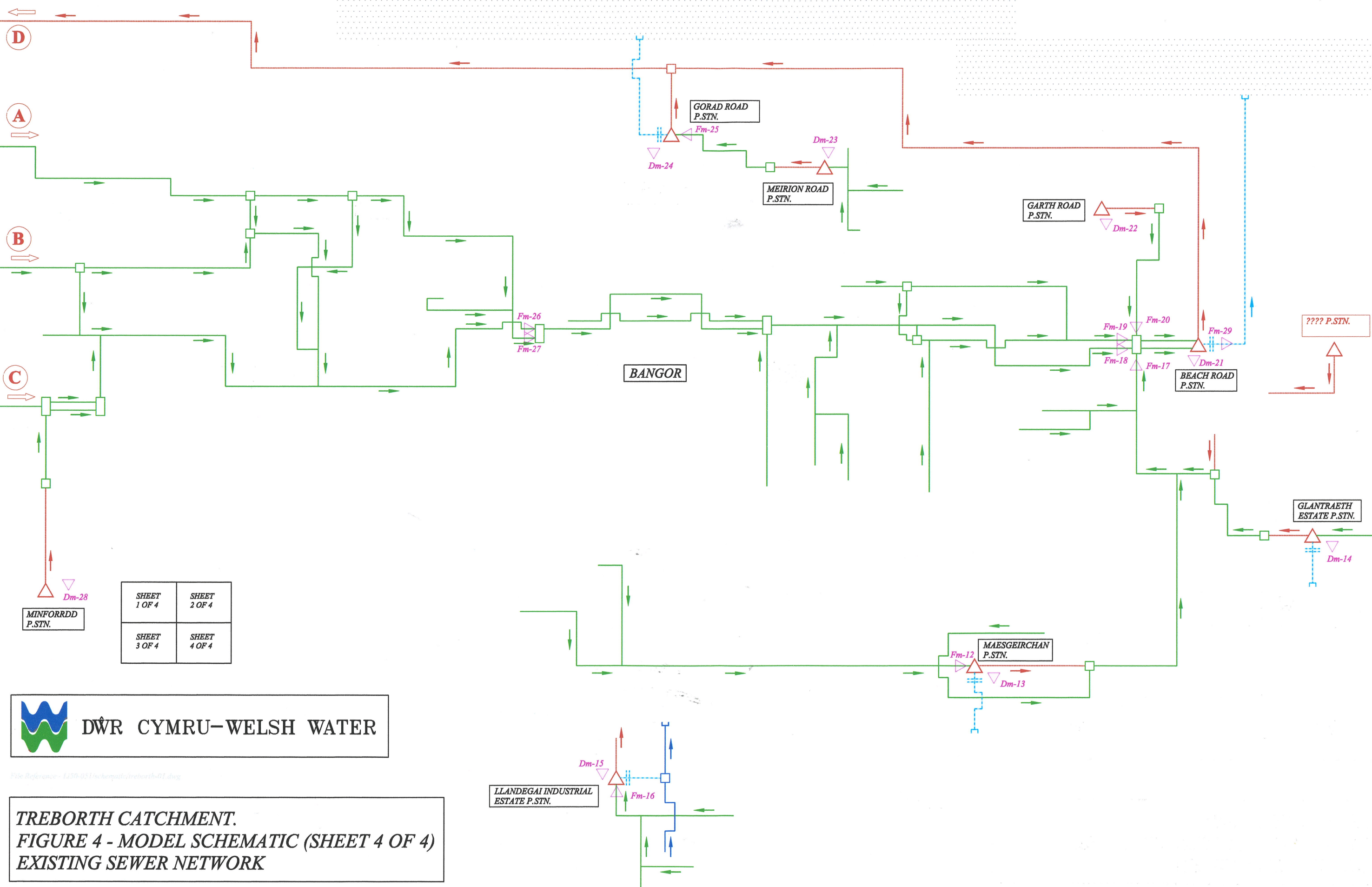
SHEET 1 OF 4	SHEET 2 OF 4
SHEET 3 OF 4	SHEET 4 OF 4



TREBORTH CATCHMENT.  
FIGURE 4 - MODEL SCHEMATIC (SHEET 3 OF 4)  
EXISTING SEWER NETWORK

MENAI STRAITS

MENAI STRAITS



D

A

B

C

BANGOR

???? P.STN.

GLANTRAETH ESTATE P.STN.

MAESGEIRCHAN P.STN.

BEACH ROAD P.STN.

MEIRION ROAD P.STN.

GORAD ROAD P.STN.

MINFORRDD P.STN.

LLANDEGAI INDUSTRIAL ESTATE P.STN.

SHEET 1 OF 4	SHEET 2 OF 4
SHEET 3 OF 4	SHEET 4 OF 4



TREBORTH CATCHMENT.  
 FIGURE 4 - MODEL SCHEMATIC (SHEET 4 OF 4)  
 EXISTING SEWER NETWORK

File Reference: 1250-051/schematic/treborth-01.dwg