

PRIVATE SURFACE WATER

REF	COVER DEPTH(m)	INVERT LEVEL(m)	DEPTH TO MAIN PIPE INVERT(m) DIA (mm)	MANHOLE COVER TYPE
F7	128.55	127.65	0.90	100
F8	127.96	128.64	1.00	100
F9	127.50	128.50	1.00	100
F4	127.20	128.80	1.20	100
F3	125.50	124.30	1.20	100
F1	124.50	123.50	1.20	100
F2	124.88	123.95	0.90	100
F9	124.85	123.85	1.00	100
F8	124.85	123.85	1.00	100

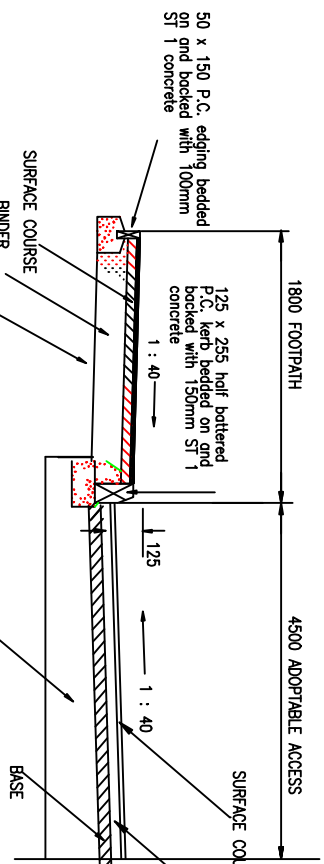
TO PACKAGE TREATMENT PLANT

REF	COVER DEPTH(m)	INVERT LEVEL(m)	DEPTH TO MAIN PIPE INVERT(m) DIA (mm)	MANHOLE COVER TYPE
SA4	128.43	127.73	0.70	100
SA5	128.00	127.20	0.80	100
SA3	127.75	126.65	1.00	150
SA4	126.97	126.67	1.00	150
SA5	124.50	122.87	1.38	225
SA2	124.35	122.87	1.38	225
SA1	123.33	122.83	1.20	225
SA7	124.48	123.10	1.38	150
SA8	124.48	123.22	1.26	150
SA9	124.88	124.18	0.70	100
SA10	124.88	124.08	0.80	100
SA11	124.40	123.70	0.70	100

PCC = 1200mm DIA PRECAST RINGS UNDER MAIN ACCESS ROAD

ALL COVER LAYERS (F7 AND SURFACE WATER) TO BE CONFINED ON SITE

PROPOSED INVERTS MAY BE ADJUSTED ON SITE TO SUIT LOCAL CONDITIONS



TYPICAL SECTION THROUGH ADOPTABLE ACCESS (CROSSFALL)

ALL WORKS TO BE UNDERTAKEN IN
ACCORDANCE WITH WREXHAM C.B.C. GUIDELINES
ON ADOPTABLE HIGHWAYS

ADOPTABLE ACCESS ROAD CONSTRUCTION DETAILS			
MATERIAL	B.S. EN 13108 SECTION REF.	NOMINAL SECTION SIZE	THICKNESS OF LAYER (mm) PSV
SURFACE COURSE	STONE MIST ASPHALT (SMA) surface 40/60	SECTION 5	10mm
OR HOT ROLLED ASPHALT SEE NOTE 5		SECTION 4	14mm
BINDER COURSE	ASPHALT CONCRETE BINDER 100/150	SECTION 1	20mm
BASE	ASPHALT CONCRETE BINDER 100/150	SECTION 1	32mm
SUB-BASE	Granular Type 1	SECTION 1	100mm
DRYING LAYER	Granular Type 1	SECTION 1	240mm

TOTAL THICKNESS (mm)

* If CBR value is LESS than 2%, subbase thickness = 150mm, coping layer = 600mm

* If CBR value is GREATER than 5%, subbase thickness = 240mm, no coping layer

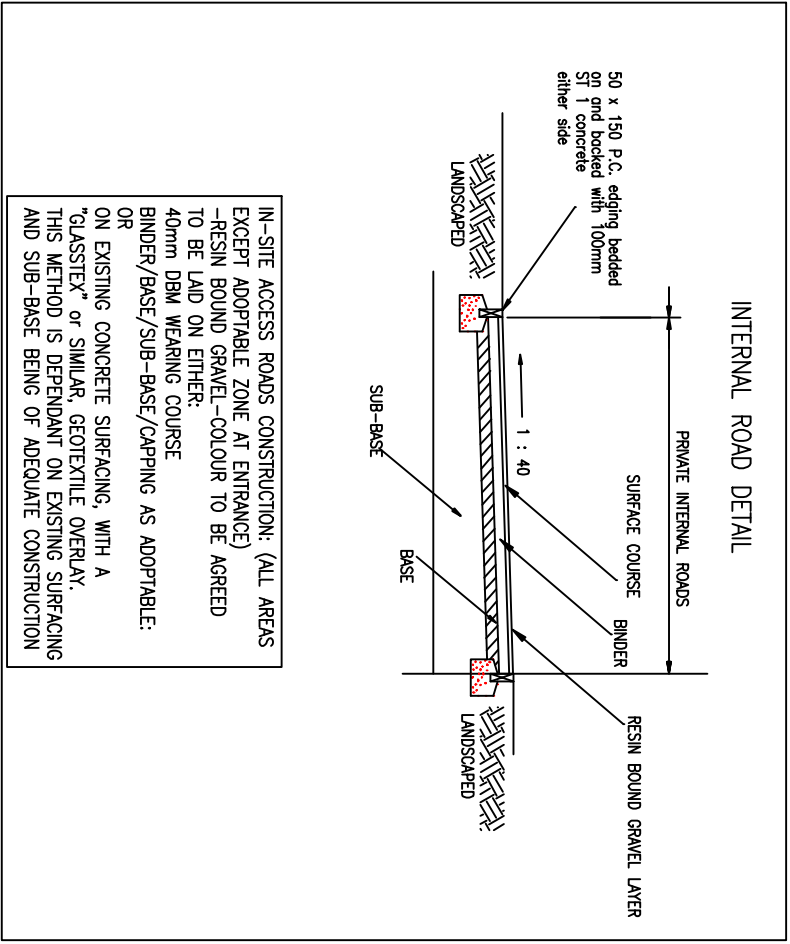
Based upon a CBR value of road formation level of 3%

FOOTPATH CONSTRUCTION DETAILS: 1.8m WIDTH			
LAYER	MATERIAL	B.S. EN 13108 SECTION REF.	NOMINAL SECTION SIZE
SURFACE COURSE	ASPHALT CONCRETE BINDER 160/20	SECTION 1	6mm
BINDER COURSE	ASPHALT CONCRETE BINDER 160/20	SECTION 1	20mm
SUB-BASE	Granular Type 1	SECTION 1	100mm

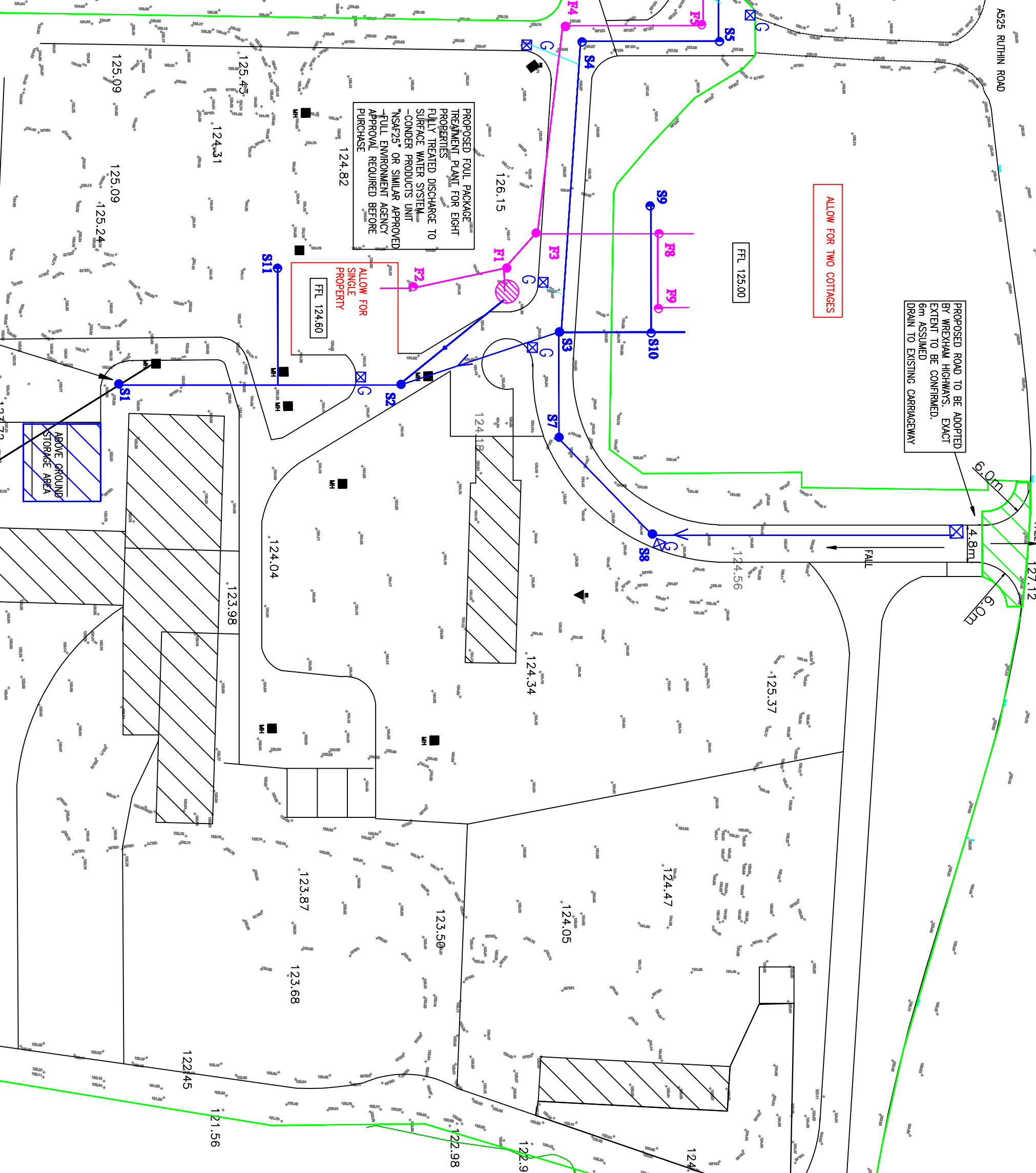
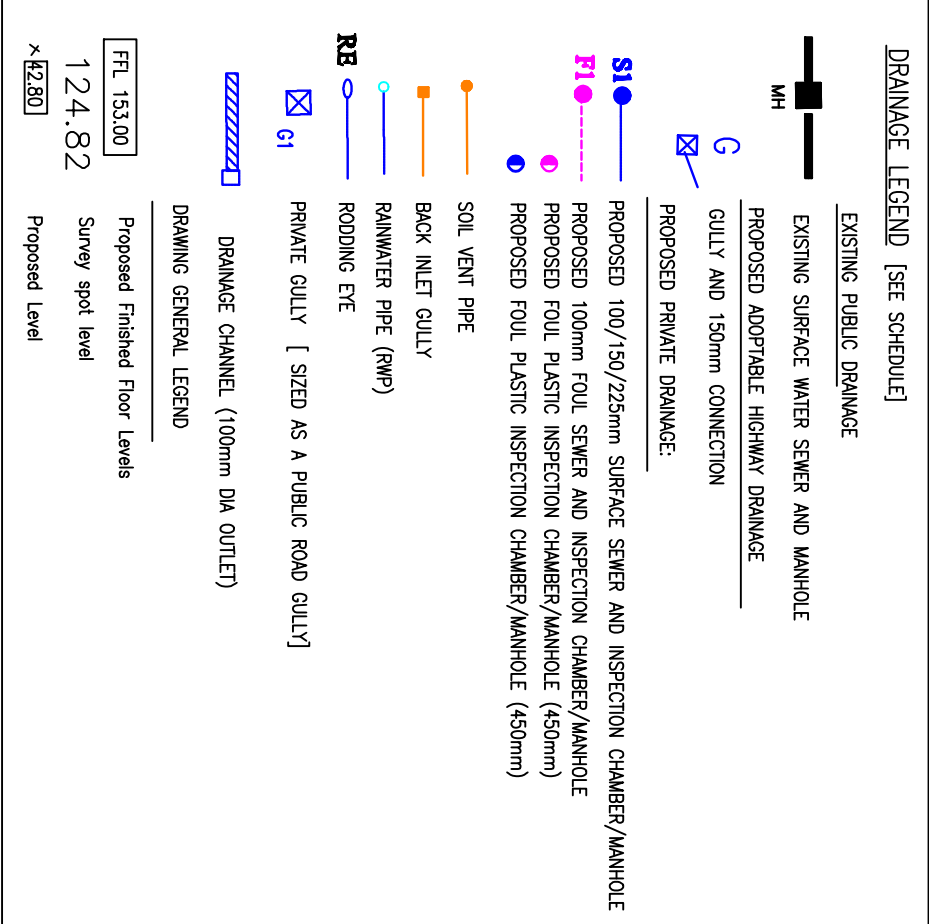
TOTAL THICKNESS (mm)

160mm

Note: 3 No. minimum staggered
crossings to suit of vehicles



IN-SITE ACCESS ROAD CONSTRUCTION (ALL AREAS
EXCEPT ADOPTABLE ZONE AT ENTRANCE)
TO BE Laid ON EITHER -COLLOID TO BE ADDED
40mm DBM WEARING COURSE
BINDER/BSE/SUB-BASE/DRYING AS ADOPTABLE:
ON EXISTING CONCRETE SURFACING, WITH A
TOLERANCE OF 5mm GEOTEXTILE OVERLAY
AND SUB-BASE BENEATH SURFACING
AND SUB-BASE BENEATH OF ADOPTABLE CONSTRUCTION



PHASE 1:
4 PROPERTIES IN RED TO BE
CONSTRUCTED ONLY
NOTE: PHASE 1 IMPERMEABLE
AREA = 1867m²

DRAINAGE STATEMENT: ALL DRAINAGE TO REMAIN PRIVATE
BRAIN CONSTRUCTION CREATING A NEW RESIDENTIAL PROPERTIES (FULL SCHEME)
AREA IS UNDERSERVED.
Foul DRAINAGE TO PROPOSED PACKAGE TREATMENT PLANT.
NEED DRAINAGE TO EXISTING SURFACE WATER SYSTEM
SITE CHARACTERISTICS, CAN AND WILL NOT SOAK
SURFACE WATER DRAINAGE FULL SCHEME HOLO
100-YEAR SURFACE WATER (PLUS 5% CLIMATE CHANGE)
APPROX. 100mm TO BE STORED IN SITE IN LOW AREAS / BANNED AREAS

HIGHWAY STATEMENT: TO BE ADOPTED BY WREXHAM COUNTY COUNCIL.
REMARKS TO BE PRIVATE

PROPOSED ROADS, FOUL AND SURFACE WATER LAYOUT: PRELIMINARY

POSTCODE LL11 3BP

PRELIMINARY

D	OUTFALL DISCHARGE AMENDED	29.516	AK	AK
C	SCHEDULE ADDED	16.516	AK	AK
B	ADOPTABLE AREA, GULLY REVISED	11.516	AK	AK
A	INTERVAL ROAD DETAIL ADDED	23.516	AK	AK

KANE DESIGN

Civil Engineering Design

15 Wrexham Way Tel: 01 978 655888

LL12 8RH

STRUTT and PARKER

Project
PROPOSED DEVELOPMENT at
PLAS POWER ESTATE, WREXHAM

DRAINAGE FEASIBILITY
SMALLER SCHEME

DRAWING NUMBER	SCALE	1:500	@ A1
1292/101	DATE	01.06.16	REVISION
	DRAWN	AK	D
	CHECKED	AK	