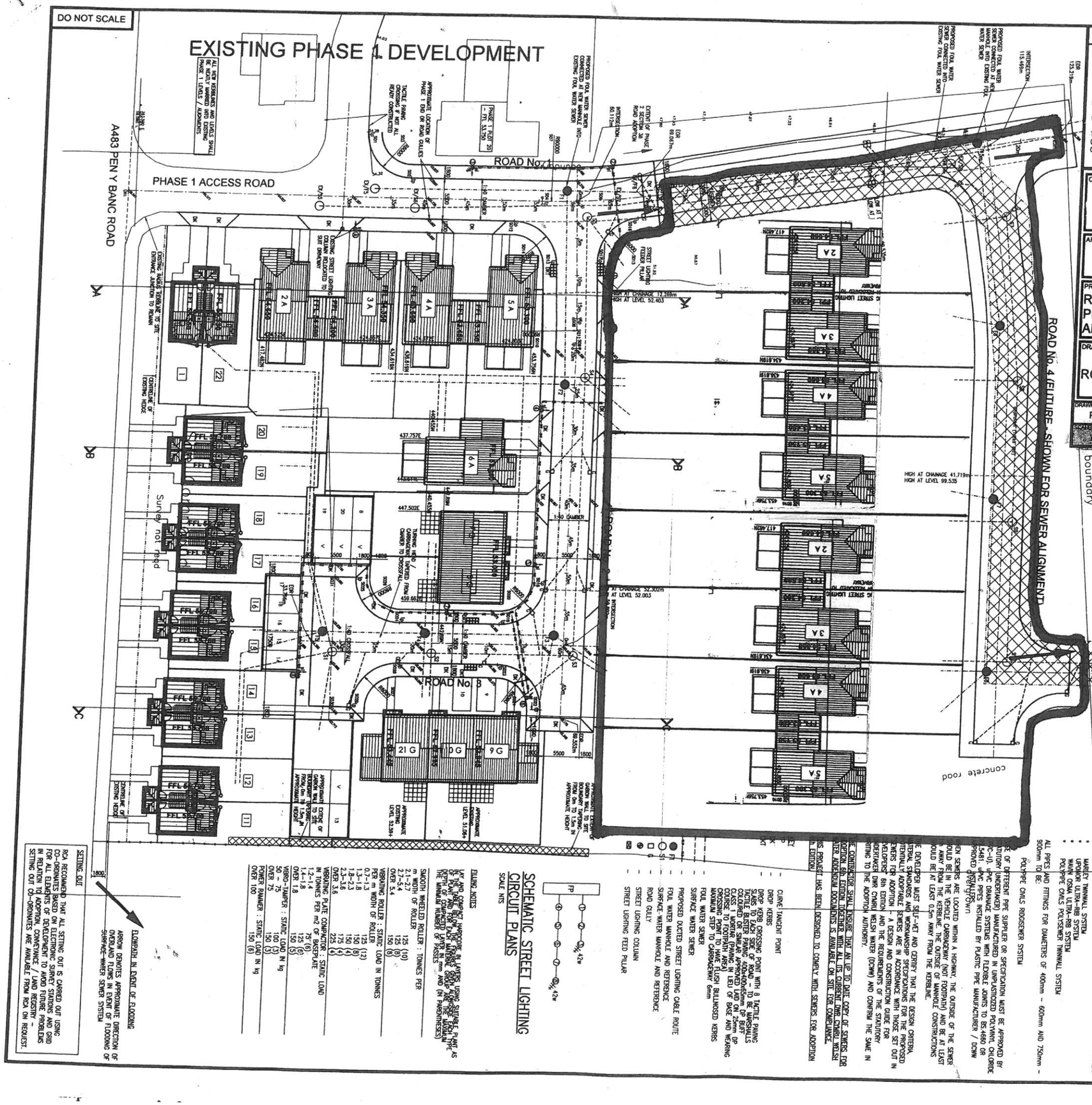
DO NOT SCALE



NOTES:

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WORK TO FIGURED DIMENSIONS IN PREFERENCE TO SCALING.

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER ROGER CASEY ASSOCIATES DRAWINGS AND SPECIFICATIONS AND ALL OTHER CONSULTANTS DRAWINGS AND SPECIFICATIONS RELATING TO THIS PROJECT.

CLIENT:

ARCHITECT: BBA ARCHITECTS & PLANNERS

PROJECT:
RESIDENTIAL DEVELOPMENT AT PHASE 2 & 3, PEN Y BANC, AMMANFORD, CARMARTHENSHIRE

DRAWING TITLE:
ROADS & DRAINAGE SITE PLAN

DRAWN BY:	DESIGN BY:	CHECKED BY:	DATE:
PWJL	PWJL	RSC	16/04/07
SCALE: 1:250	DRAWING No.: 14943/02	REVISION: P	

DRAWING STATUS:
CONSTRUCTION

REV.	DESCRIPTION	DRAWN	CHECK	DATE
P	PLOT 1 REVISED TO 1 & 22	PWJL	PWJL	10/06/11
O	PLOTS 11–20 REVISED TO SUIT CURRENT SITE LAYOUT	PWJL	PWJL	10/02/10
N	PLOTS 9–21 REVISED TO SUIT CURRENT SITE LAYOUT PROPOSALS & STREET LIGHT COLUMN 8 MOVED	PWJL	PWJL	16/11/09
M	PLOTS 9–20 REVISED TO SUIT CURRENT SITE LAYOUT PROPOSALS – CO-ORDS ADDED FOR THE SAME	PWJL	PWJL	17/04/09
L	APPROXIMATE SWS FLOW PATHS ADDED TO DRAWING SECTION 104 EASEMENT LENGTH REDUCED	PWJL	PWJL	01/08/08
K	PLOT 09–24 REVISED TO SUIT ARCHITECTS LAYOUT PARKING FOR SAME ADJUSTED TO SUIT ROAD	PWJL	PWJL	21/07/08
J	END OF ROAD No. 1 AND ROAD No. 4 LEVELS AND LINKED DRAINAGE REVISED AS CLIENT REQUIREMENTS	PWJL	PWJL	25/04/08

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STREET LIGHTING

8 No LIGHTING COLUMNS AND 1 No FEEDER PILLAR – POSITIONS AS SHOWN.

ADOPTABLE ESTATE ROAD (1–6) COLUMNS TO BE:
5.0m ALUMINIUM HOCKEY STICK COLUMN FITTED WITH AN URBIS 42w PLT SAPPHIRE LANTERN. (LUMINAIRE DATA: SPH1/LPG/1632/120/–30/203899)

ADOPTABLE ESTATE ROAD (7 & 8) COLUMNS TO BE:
6.0m ALUMINIUM HOCKEY STICK COLUMN FITTED WITH AN URBIS 42w PLT SAPPHIRE LANTERN. (LUMINAIRE DATA: SPH1/LPG/1632/120/–30/203899)

COLUMNS OBTAINED FROM ALUMINIUM LIGHTING COMPANY, CYANNER, PORT TALBOT TEL.: 01639 882302

FEEDER PILLARS TO BE:

GALVANISED MILD STEEL FEEDER PILLAR TO BE FITTED WITH DOUBLE POLE ISOLATOR AND SERIES 7 CUT–OUT WITH 2 15 AMP FUSES, ONE FOR EACH CIRCUIT, AND NEUTRAL BLOCK.

CABLE – XLPE STEEL WIRE ARMOURED PVC/PVC INSULATION 10mm2 3 CORE COPPER CONDUCTORS (COLOURED BROWN = LIVE, BLUE = NEUTRAL AND GREEN/YELLOW = EARTH), BURIED 450mm IN FOOTPATHS AND 750mm IN ROAD CROSSINGS. CABLE TO BE LAID IN 100mm DIA. PVC DUCT ROUTE DUCTED. DUCTS TO BE 40mm OD PLUS LENGTH OF CABLE COLOUR WITH MARKER TAPE INDICATING 'PUBLIC LIGHTING CABLE BELOW'. WITH CABLES BEING LOOPED FROM ONE COLUMN TO THE OTHER ALL AS CARMARTHENSHIRE COUNTY COUNCIL SPECIFICATION. EARTH ELECTRODE INSTALLED AT LAST COLUMN (16mm2 EARTH WIRE TO BE USED) CONTAINED WITHIN PROPRIETARY CONCRETE INSPECTION CHAMBER. WHERE FLEX–DUCT CROSSES UNDER THE ROADWAY PROVIDE A 100mm ORANGE COLOURED DUCT TO FEED THROUGH 62mm OD FLEX–DUCT.

CARMARTHENSHIRE COUNTY COUNCIL OFFER AN INSTALLATION SERVICE FOR STREET LIGHTING INFRASTRUCTURE. CONTACT CARMARTHENSHIRE COUNTY COUNCIL PUBLIC LIGHTING SECTION TELEPHONE 01554 742288.

NOTES (CONTINUED)

ANY DISCREPANCIES IN INFORMATION CONTAINED IN THIS DRAWING & ANY PROPOSALS AT TENANTORS TO ROAD ALIGNMENT OR DRAINAGE MUST BE REPORTED TO ENGINEER FOR REVISION TO ADOPTION AGREEMENT DRAWINGS.

FOUL WATER & SURFACE WATER SEWER

ALL PIPES AND FITTINGS FOR DIAMETERS OF 150mm – 300mm TO BE EITHER:

- MARLEY TWINWALL SYSTEM
- WAVIN ULTRA–RIB SYSTEM
- POLYPIPE OWLS POLSEWER TWINWALL SYSTEM

ALL PIPES AND FITTINGS FOR DIAMETERS OF 400mm – 600mm AND 750mm – 900mm TO BE:

- POLYPIPE OWLS ROOSSEWER SYSTEM

IF USE OF DIFFERENT PIPE SUPPLIER OR SPECIFICATION MUST BE APPROVED BY STATUTORY (WATERTAKER) MANUFACTURED IN UNPLASTICIZED POLYVINYL CHLORINE (PVC–U) PVC DRAINAGE SYSTEMS WITH FLEXIBLE JOINTS TO BS:4660 OR 5481 uPVC PRESSURE SYSTEMS INSTALLED BY PLASTIC PIPE MANUFACTURER / DCWW APPROVED INSTALLER.

WHEN SEWERS ARE LOCATED WITHIN A HIGHWAY, THE OUTSIDE OF THE SEWER WOULD BE IN THE VEHICLE CARRIAGEWAY (NOT FOOTPATH) AND BE AT LEAST 1.0m AWAY FROM THE KERBLINE. THE OUTSIDE OF MANHOLE CONSTRUCTIONS WOULD BE AT LEAST 0.5m AWAY FROM THE KERBLINE.

THE DEVELOPER MUST SELF–VET AND CERTIFY THAT THE DESIGN CRITERIA, MATERIAL STANDARDS AND WORKMANSHIP SPECIFICATIONS FOR THE PROPOSED SEWERS FOR ADOPTION ARE IN ACCORDANCE WITH THOSE SET OUT IN DCWW'S DESIGN AND CONSTRUCTION GUIDE FOR DEVELOPERS' 6th EDITION AND THE REQUIREMENTS OF THE STATUTORY UNDERTAKER DWR CYMRU WELSH (DCWW) AND CONFIRM THE SAME IN WRITING TO THE ADOPTION AUTHORITY.

THE CONTRACTOR SHALL ENSURE THAT AN UP TO DATE COPY OF SEWERS FOR ADOPTION 6th EDITION TOGETHER WITH ALL ITS CURRENT AND OF SEWERS FOR ADOPTION WELSH ADDENDUM DOCUMENTS IS AVAILABLE ON SITE FOR COMPLIANCE.

THIS DRAWING HAS BEEN DESIGNED TO COMPLY WITH SEWERS FOR ADOPTION 6th EDITION

SCHEMATIC STREET LIGHTING CIRCUIT PLANS

SCALE NTS

- CURVE TANGENT POINT
- DROP KERBS
- DROP KERB CROSSING POINT WITH 8 TACTILE PAVING SLABS TO EACH SIDE OF ROAD – TO BE MARSHALLS COLOURED BUFF TACTILE PAVING 400x400x65mm DP BUFF CLASS 1 MORTAR (PAVING IN LIEU OF BASE AND WEARING COURSE TO FOOTPATH AREA) ON 25mm DP MORTAR BED. MAXIMUM STEP TO HAVE FLUSH BULLNOSED KERBS MAXIMUM STEP TO CARRIAGEWAY 6mm
- FOUL WATER SEWER
- SURFACE WATER SEWER
- PROPOSED DUCTED STREET LIGHTING CABLE ROUTE
- FOUL WATER MANHOLE AND REFERENCE
- SURFACE WATER MANHOLE AND REFERENCE
- ROAD GULLY
- STREET LIGHTING COLUMN
- STREET LIGHTING FEED PILLAR

FP — 42w — 42w — 42w

FILLING NOTES

LAY AND COMPACT HARDCORE IN LAYERS USING SUITABLE PLANT AS IN THE TABLE BELOW AND FOR EACH MATERIAL GROUP AND PIPE DEPTH OF COVER TO THE MINIMUM NUMBER OF PASSES

SMOOTH WHEELED ROLLER : TONNES PER 2.1m WIDTH OF ROLLER	125 (10)
2.1–5.4	125 (8)
OVER 5.4	125 (6)
VIBRATING ROLLER : STATIC LOAD IN TONNES PER m WIDTH OF ROLLER	125 (12)
0.7–1.3	150 (8)
1.3–1.8	150 (6)
1.8–2.3	150 (4)
2.3–3.6	175 (4)
OVER 3.6	225 (4)
VIBRATING PLATE COMPACTOR : STATIC LOAD IN kg PER m2 OF BASEPLATE	125 (6)
1.2–1.4	125 (5)
1.4–1.8	150 (5)
OVER 1.8	150 (3)
VIBRO–TAMPER : STATIC LOAD IN kg	100 (3)
50 – 75	150 (3)
OVER 75	100 (3)
POWER RAMMER : STATIC LOAD IN kg	150 (6)
OVER 100	

SETTING OUT

RCA RECOMMEND THAT ALL SETTING OUT IS CARRIED OUT USING CO–ORDINATES BASED ON ELECTRONIC SURVEY STATIONS AND GRID FOR ALL ELEMENTS OF DEVELOPMENT TO AVOID FUTURE PROBLEMS RELATION TO ADOPTION, CONVEYANCE / LAND REGISTRY. SETTING OUT CO–ORDINATES ARE AVAILABLE FROM RCA ON REQUEST.

ELEVATION IN EVENT OF FLOODING

ARROW DENOTES APPROXIMATE DIRECTION OF OVERLAND FLOWS IN EVENT OF FLOODING OF SURFACE–WATER SEWER SYSTEM

ORIGINAL DRAWING A1

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