

DO NOT SCALE



Drainage Legend [See Schedule]

- EXISTING PUBLIC DRAINAGE
- C** EXISTING 225 COMBINED SEWER AND MANHOLE
 - SM** EXISTING 225 SURFACE WATER SEWER AND MANHOLE
 - H** EXISTING 225 HIGHWAY DRAIN

PROPOSED ADAPTABLE DRAINAGE: [WATER AUTHORITY]

MAN DRAINAGE [ALL SEWERS TO BE MIN. 1m FROM KERB, INCLUDING OFF-SITE

- S1** Surface water sewer & manhole
- F1** Foul water sewer & manhole: 100mm diam unless stated, 3m Easement either side of pipe

- LATERAL DRAINAGE [WATER AUTHORITY]
- RS** Foul sewer adoptable lateral and inspection chamber
 - SL5** Surface water adoptable lateral and inspection chamber

- PROPOSED ADAPTABLE HIGHWAY DRAINAGE
- G1** GULLY AND 150mm CONNECTION (5 number)

PROPOSED PRIVATE DRAINAGE: [SEE DRAWING 1222-08]

- PROPOSED 100mm SURFACE SEWER AND INSPECTION CHAMBER/MANHOLE
- P-S1**
 - P-R1**

- RE** BACK WET GULLY
- RA** RAINWATER PIPE (RWP)
- RD** ROADING ETC

PRIVATE GULLY [SIZED AS A PUBLIC ROAD GULLY]

PRIVATE GULLY [SIZED AS A PUBLIC ROAD GULLY]

- P-SA1** DRAINAGE CHANNEL (100mm DIA OUTLET) SEE 1222-08

DRAINING GENERAL LEGEND

- F1L 153.00** Proposed Finished Floor Levels
- o 92.10** Survey spot level
- x 92.10** Back of footpath proposed level
- x 92.80** Direction of fall in drive SEE 1222-08
- x 92.80** Proposed Level

RET WALL

RETAINING WALL [SEE EXTERNAL WORKS DRAWING]

KERBING KEY: FOR KERBING DETAILS SEE DRAWING 1222-08

MANHOLE TYPES / SIZES:

MAIN DRAINAGE:

AS SEWERS FOR ADOPTION 7th:
1.2m OR DEEPER TO INVERT: PRECAST CONCRETE RINGS:
LESS THAN 1.2m USE BRICKWORK

LATERAL:

UNDER 3.0m TO INVERT: POLYPROPYLENE INSPECTION CHAMBER (PPIC)
3.0m TO 4.5m TO INVERT: ACCESS LID (SLOPE 1:1)
600mm DIA (1 ACCESS EACH SIDE)
OR SIMILAR APPROVED IN ACCORDANCE
WITH SEWERS FOR ADOPTION 7th
(INDICATED OVER-SIZE ON PLAN FOR CLARITY)



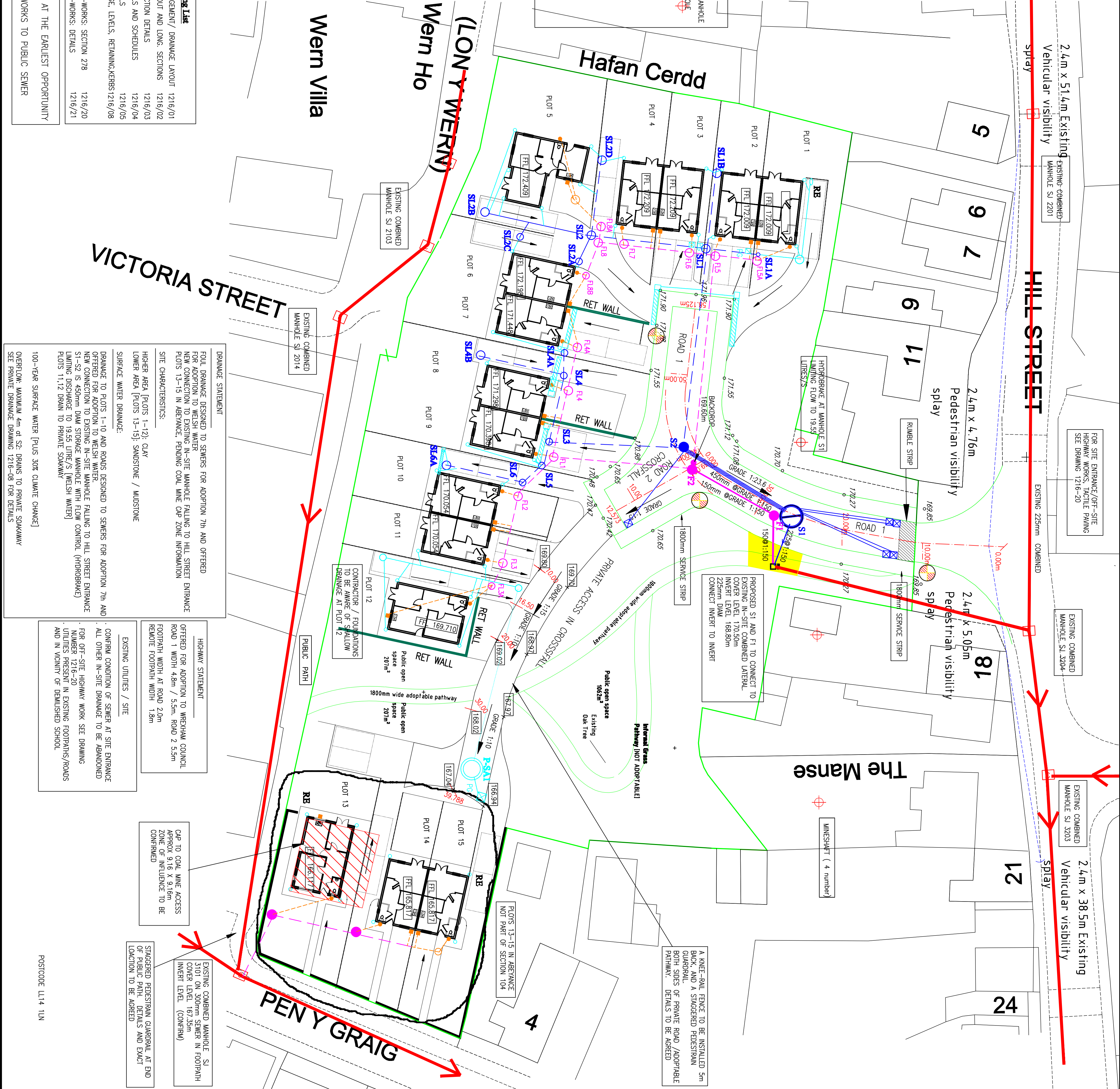
ADOPTABLE STREETLIGHT (3 number)

SEE DRAWING 1216-11 FOR SPECIFICATION

In Site Drawing List

GENERAL ARRANGEMENT/ DRAINAGE LAYOUT	1216/01
ROAD SETTING OUT AND LONG SECTIONS	1216/02
ROAD CONSTRUCTION DETAILS	1216/03
MANHOLE DETAILS AND SCHEDULES	1216/04
DRAINAGE DETAILS	1216/05
PRIVATE DRAINAGE, LEVELS, RETAINING KERBS	1216/08
OFF-SITE ROAD-WORKS: SECTION 278	1216/20
OFF-SITE ROAD-WORKS: DETAILS	1216/21

ALL EXISTING SEWERS, INVERTS DIAMETERS TO BE CONFIRMED ON SITE AT THE EARLIEST OPPORTUNITY
SECTION 106 AGREEMENT TO BE IN PLACE BEFORE ANY CONNECTION WORKS TO PUBLIC SEWER



NOTES

- Survey taken from BLUEPRINT ARCHITECTURAL SERVICES drawing number H059/011 REV A MAY 2013
- Planning Layout Information taken from BLUEPRINT ARCHITECTURAL SERVICES drawing number H059/009 REV B August 2012

GENERAL DRAINAGE NOTES

- Workmanship to comply with BS 8000 : Part 1 : 1989.
- All concrete shall comply with BS 5328 : 1991.
- Before opening any existing manhole cover the Contractor shall ensure that the manhole is properly secured and shall submit his detailed proposals for manhole and/or diverting flows to client representative and Local Authority for approval.
- Before the commencement of any sewerage works, the Contractor shall check the invert levels of the existing pipes and manholes to which new sewers are to be connected and inform the Client representative of any discrepancies. Should there be significant deviation from the assumed positions or levels then Kane Design are to be informed immediately.
- Flows in existing sewers, drains and ditches shall be maintained by the Contractor at all times. The Contractor shall ensure that the flow is maintained and shall submit his detailed proposals for maintaining and/or diverting flows to client representative and Local Authority for approval.
- Structural concrete including precast concrete products, surrounds to pipes and to manholes shall be Grade C30 with Ordinary Portland Cement unless otherwise shown.
- Where existing sewers are to be abandoned, they shall be dug up and the excavation backfilled with selected fill Type B in accordance with 'Sewers for Adoption'. Where sewers to be abandoned run underneath proposed foundations, the method shall be subject to the approval of the engineer.

NOTES ON SEWERS FOR ADOPTION

- All adoptable sewerage shall generally comply with the requirements of WMA Guide - 'Sewers for Adoption - 7th Edition' and the requirements of WELSH WATER
- All sewers for adoption with greater than 1.2m cover in roads and 0.6m cover in gardens and fields shall have Class S granular bedding, unless stated otherwise on drawing number 1216-06.
- Any sewer for adoption with less than 1.2m cover in roads and 0.6m cover in gardens and fields shall have Class S granular bedding, unless stated otherwise on drawing number 1216-06.
- Any concrete surround flexibility shall be maintained by the provision of Flexcell or similar approved jointfiller beads in the concrete surround at each pipe joint.
- All gully connections to adoptable sewers shall be 150mm dia. All connections to adoptable sewers shall be by manufactured junction pipes.

THE FOLLOWING ITEMS AMAT CONTRIBUTION:
EXACT LOCATIONS OF RWP AND SOIL PIPES

PENDING HIGHWAYS and WELSH WATER APPROVAL
PRELIMINARY

Rev	Description	Date	Drawn	Checked
D	F1-92 150mm DIAM	06/06/14	AK	
C	FURTHER WELSH WATER COMMENTS	29/05/14	AK	
B	WELSH WATER, HIGHWAY COMMENTS	18/05/14	AK	
A	POUL DRAINAGE RE-DESIGNED	10/01/14	AK	

KANE DESIGN
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HEED DEVELOPMENTS LTD

Project
PROPOSED DEVELOPMENT at
WERN SCHOOL, RHOS, WREXHAM

Title
GENERAL ARRANGEMENT AND
DRAINAGE LAYOUT

DRAWING NUMBER	SCALE	1250	REVISION
1216/01	DATE	8/11/13	REVISION
	DRAWN	AK	D
	CHECKED	AK	