

DO NOT SCALE



2.4m x 51.4m Existing
Vehicular visibility
MANHOLE SJ 2201

FOR SITE ENTRANCE/OFF-SITE
HIGHWAY WORKS, TACTILE PAVING
SEE DRAWING 1216-20

EXISTING COMBINED
MANHOLE SJ 3204

2.4m x 38.5m Existing
Vehicular visibility
MANHOLE SJ 3203

- 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 supported and braced to prevent collapse. The Contractor shall submit the detailed proposals for monitoring 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 monitored by the Contractor at all times. The Contractor shall ensure that the sewerage system is properly supported and braced to prevent collapse. The Contractor shall submit the detailed proposals for monitoring 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 120mm cover in roads and 0.90m cover in gardens and fields shall have Class 5 granular bedding, unless stated otherwise on drawing number 1216-06.
- Any sewer for adoption with less than 120mm cover in roads and 0.90m cover in gardens and fields shall be monitored by the provision of flexcell or similar approved jointer breaks 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 MUST CONTAINMENT:
EXACT LOCATIONS OF RWP AND SOIL PIPES

INFORMATION CONTAINED HEREIN IS SAME AS DRAWING 01:
THIS DRAWING IS COLOURED FOR HIGHWAYS AND SECTION 38 REQUIREMENTS

**PENDING HIGHWAYS APPROVAL
PRELIMINARY**

Rev	Description	Date	Drawn	Check
A	STAGGERED BARRIER NOTE ADDED	22/04/14	AJK	AJK
B	WELSH WATER / HIGHWAY COMMENTS	16/04/14	AJK	AJK

KANE DESIGN
Civil Engineering Design

15 Wrexham Road
Wrexham, Shropshire, CH12 9RH
Tel: 01 978 655888

HEED DEVELOPMENTS LTD

Project
PROPOSED DEVELOPMENT at
WERN SCHOOL, RHOS, WREXHAM

Title
GENERAL DRAINAGE LAYOUT
SECTION 38 ISSUE

DRAWING NUMBER	SCALE	1250	@ A1
1216/22	DATE	8/11/13	REVISION
	DRAWN	AJK	B
	CHECKED	AJK	



COLUMNS
6m CU PHOSCO tubular steel hot dipped galvanised 5mm base,
3mm shaft

LANTERNS

Type PHILLIPS MINI RIDIUM , SSS451 FG OC IT1 PAX 45 watt CPO
lamp fitted with mini cell

DNO Supply

NOTES:

- For Column installation details refer to Wrexham County Borough Council's specification 2013.
- Column position to be agreed on site with all Authoritative parties
- All lighting columns to be sited at back of footpath or 800mm from front of kerb in service strip.
- Prior to excavation works the installation contractor must be aware of underground services or hazards which may be encountered in the installation of the lighting system.
- The installation contractor must be aware of any overhead obstructions.

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



DRAWING GENERAL LEGEND

- FTL 153.000 Proposed Finished Floor Levels
- Survey spot level
- o 30.10 Back of footpath proposed level
- Direction of fall in drive SEE 1222-08
- o 12.80 Proposed level
- o 12.80 Tactile paving
- RET WALL RETAINING WALL [SEE EXTERNAL WORKS DRAWING]

KERBING KEY: FOR KERBING DETAILS SEE DRAWING 1222-08

KERBING KEY:

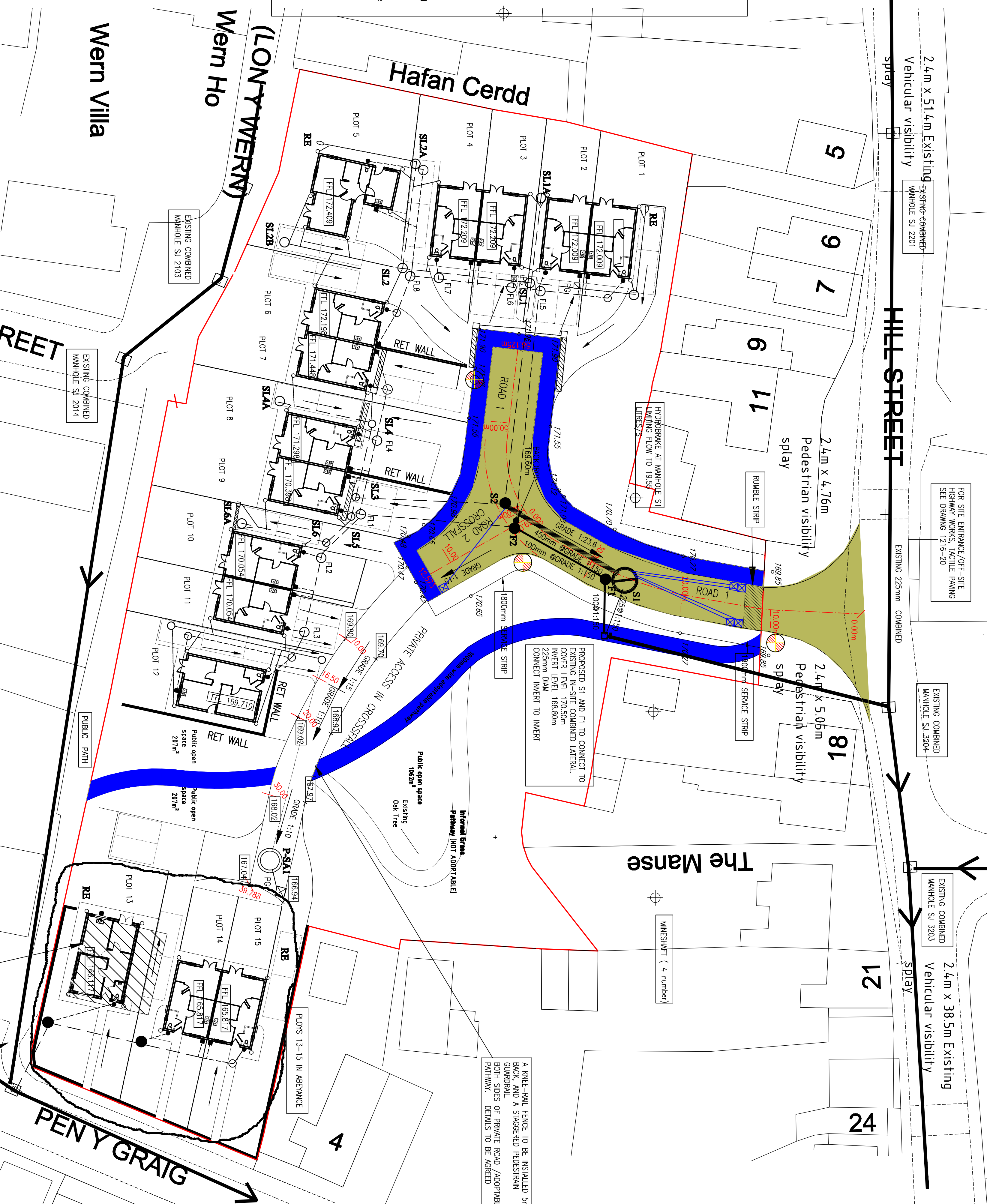
- 150x125 BULL-NOSE DROPPED KERB: BN1
- TRANSITION KERB: DL1, DR1
- ALL OTHER KERBS 225x125: HB2

ADAPTABLE 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

OVERSEEN BY THE ARCHITECTURAL SERVICES TEAM, MANHOLE SJ 2201



EXISTING COMBINED MANHOLE SJ 3101 ON 300mm SEWER IN FOOTPATH (INVERT LEVEL: 167.53m) (CONFIRM)

STAGGERED PEDESTRIAN BARRIER AND GUARDRAIL AT END OF PUBLIC PATH, DETAILS AND EXACT LOCATION TO BE AGREED

EXISTING UTILITIES / SITE
CONFIRM CONDITION OF SEWER AT SITE ENTRANCE
ALL OTHER IN-SITE DRAINAGE TO BE ABANDONED
FOR OFF-SITE HIGHWAY WORK SEE DRAWING NUMBER 1216-20
UTILITIES PRESENT IN EXISTING FOOTPATHS/ROADS AND IN VICINITY OF DEMOLISHED SCHOOL

DRAINAGE STATEMENT
FOUL DRAINAGE DESIGNED TO SEWERS FOR ADOPTION 7th AND OFFERED FOR ADOPTION TO WREXHAM COUNCIL
NEW CONNECTION TO EXISTING IN-SITE MANHOLE FALLING TO HILL STREET ENTRANCE
PLOTS 13-15 IN AVERAGE, PENDING COAL MINE CAP ZONE INFORMATION

SITE CHARACTERISTICS:
HIGHER AREA (PLOTS 1-12): CLAY
LOWER AREA (PLOTS 13-15): SANDSTONE / MUDSTONE
SURFACE WATER DRAINAGE:

DRAINAGE TO PLOTS 1-10 AND ROADS DESIGNED TO SEWERS FOR ADOPTION 7th AND OFFERED FOR ADOPTION TO WREXHAM COUNCIL
NEW CONNECTION TO EXISTING IN-SITE MANHOLE FALLING TO HILL STREET ENTRANCE
LIMITING DISCHARGE TO 19.55 LITRE/S [WELSH WATER]
PLOTS 11,12 DRAIN TO PRIVATE SODAWAY

100-YEAR SURFACE WATER [PLUS 50% CLIMATE CHANGE]