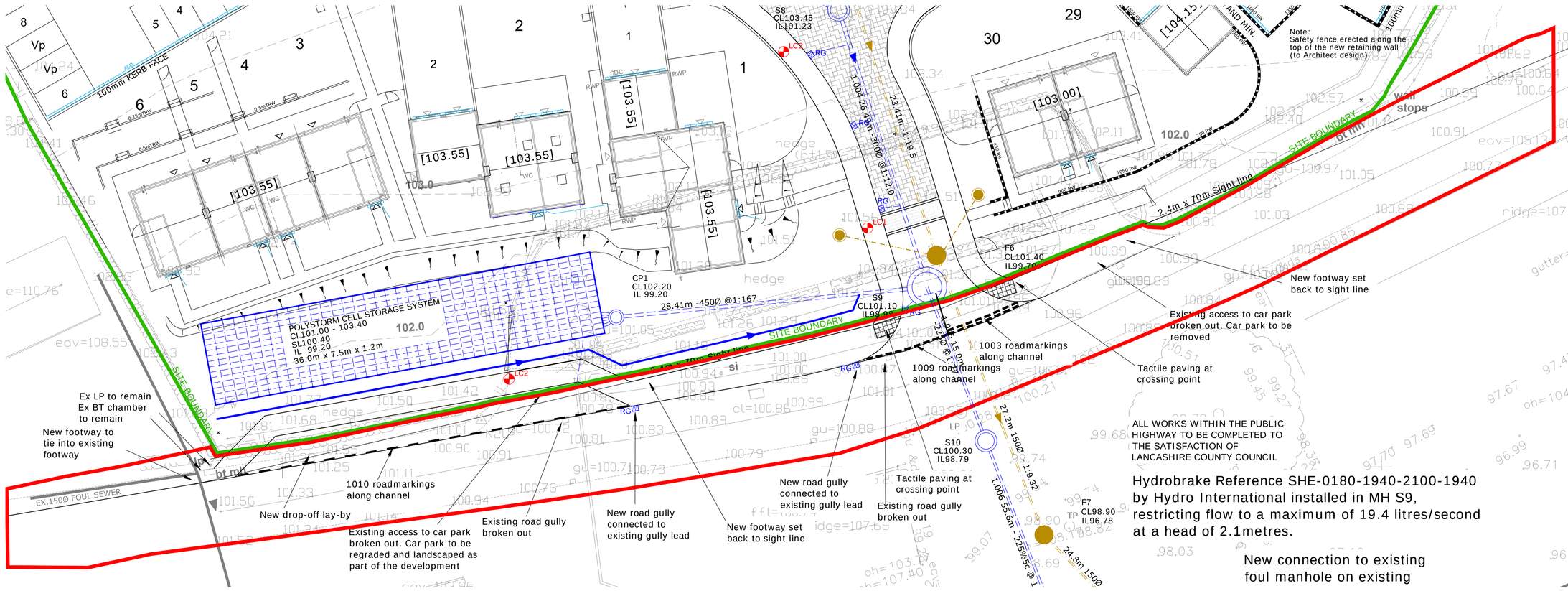
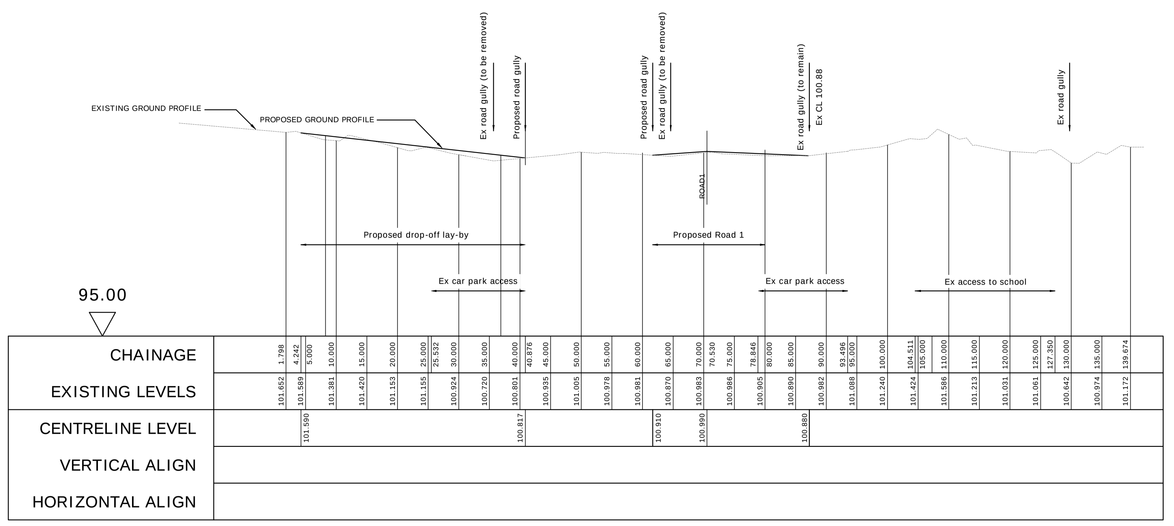
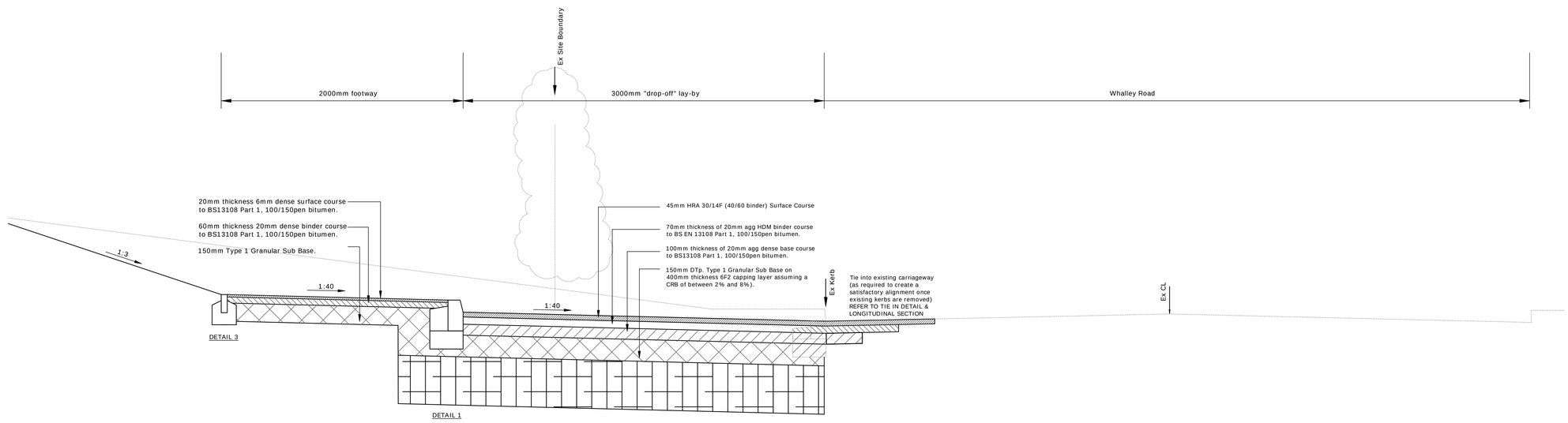


PLAN
Scale 1:200

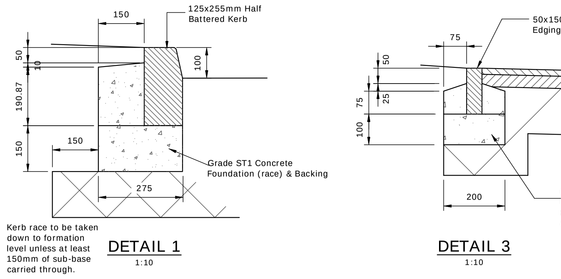


LONGITUDINAL SECTION

Horiz. 1:500 Vert. 1:100

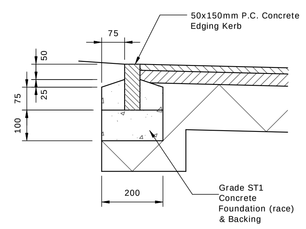


TYPICAL CROSS SECTION THROUGH LAY-BY AND EXISTING CARRIAGEWAY
Scale 1:20

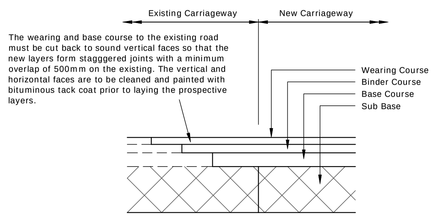


Kerb race to be taken down to formation level unless at least 150mm of sub-base carried through.

DETAIL 1
1:10

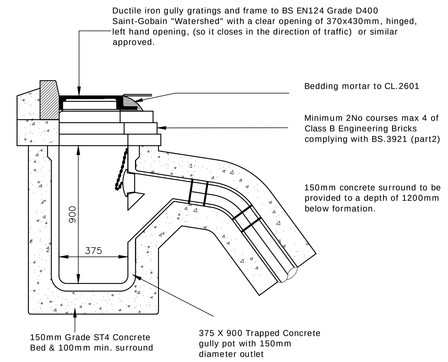


DETAIL 3
1:10

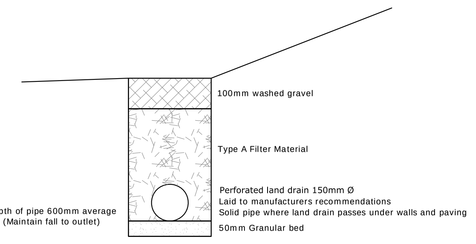


The wearing and base course to the existing road must be cut back to sound vertical faces so that the new layers form staggered joints with a minimum overlap of 500mm on the existing. The vertical and horizontal faces are to be cleaned and painted with bituminous tack coat prior to laying the prospective layers.

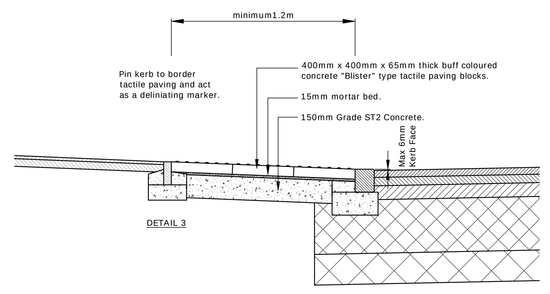
STEPPED TIE-IN DETAIL WITH EXISTING ROAD
1:20



TYPICAL GULLY DETAIL.
N.T.S.



DETAIL OF LAND DRAIN TO REAR OF LAY BY
1:10



TACTILE PAVING DETAIL
1:20

DRAINAGE CONSTRUCTION DETAILS
For construction details of all main drainage, refer to United Utilities Standard details STND/19/001 to STND/19/012
Link: http://www.unitedutilities.com/documents/developer-services-construction-details.pdf

LEGEND

Highway Boundary

Site Boundary

SECTION 278 WORKS.

The Section 278 Agreement Works are to consist of any works within the existing public highway, namely the removal of the two accesses to the existing car park, the construction of the new drop off lay-by and the access to the new development.

All works within the public highway are to be to the satisfaction of Lancashire County Council Highways Department.

No works within the highway shall be commenced until the Section 278 Agreement is signed.

CONSTRUCTION RISKS		
CONSTRUCTION RISKS	MAINTENANCE RISKS	DEMOLITION RISKS
Public gaining access to the site, - risk of accidents, injury, death. ensure site fully fenced off and secured. The site is adjacent to a school, the existing car park is the current school car park, and as such, the Contractor should be aware of children and parents attempting access to this site. The site is adjacent to a public highway risk of conflict with road users. This is a rural area, road users could include livestock, horses, large farm vehicles. Working close to existing services, both known and unknown - risk of injury or death. ensure all services located prior to commencement of works. Working with existing sewers and watercourses - risk of Lymes Disease and Weils Disease		
In addition to the hazards/risks normally associated with this type of work detailed on this drawing take note of the above. ID Civils Design are only required to provide information about any significant risks associated with the design.		

Health and Safety Notes/CDM Regulations 2015

In line with the above regulations we are obliged to inform the Contractor of the abnormal risks that may be encountered in the construction of these works. As part of the design process to the extent he/she & safety aspects are given full consideration and these are observed within the designs viewed on this document. Although considerable effort is undertaken to eliminate risks, the very nature of the project gives rise to some hazards and risks.

Significant risks that cannot be eliminated by design and could not be foreseen by a competent contractor are noted in the risk assessment boxes on the drawings.

NOTES.

1. Manholes, sewers etc. and any other part of the works intended for adoption under a Section 104 Agreement or gullies etc. intended for adoption as Highway Drainage are to be constructed in accordance with the W.A.A specification "Sewers for Adoption" 6th Edition, and to any requirements of the Adopting Authority and the Local Council.
2. Unadopted FW and SW drainage is to be constructed in accordance United Utilities standard details (see separate note and link below)and with the Building Regulations, BS. 8301 and relevant Agreement Certificates.
3. All private drainage to be 100mmØ unless indicated otherwise. All connections from private to adoptable manholes/sewers to be 150mmØ(min).
4. Private drainage with less than 0.9m of cover in drives and car parking areas to have minimum 150mm concrete bed and surround.
5. Private Drains are to be constructed using flexibly-jointed vitrified clay pipes to BS. 65 "Super Strength" specification and BS EN 295 (e.g. Hepworth SuperSleeve or similar) or uPVC Building Drainage system pipe work to EN 1401-1, bedded and back filled in accordance with the manufacturers instructions and the specifications listed in Note 2.
6. Backfilling of drain trenches adjacent to dwellings or other structures to be in accordance with BS. 8301-Fig.9.
7. Access fittings and inspection chambers less than 1m deep are to be clayware or pre-formed polypropylene as appropriate to the depth and number of connections. Chambers greater than 2.0m deep are to be of pre-cast concrete construction with 150mm in-situ concrete surround, or polropolene reduced access system. Inspection chamber sizes are to be in accordance with Table 8 of BS.8301.
8. Cover levels indicated on the drawing are nominal and may be adjusted to suit finished ground levels as necessary. Private inspection chamber covers should be Grade B in areas accessible to wheeled vehicles and Grade C elsewhere.
9. Rainwater down pipes to be connected direct to drain using an appropriate adapter and removable section of down pipe to permit rodding access.
10. Where drains pass through foundations or other rigid structures, a lintel or sleeve is to be used and provision for flexibility is to be made with "rocker pipes".
11. The positions of SVPs, stub-stacks, W.C. outlets etc. and rainwater down pipes are to be accurately located from the house-type working drawings.
12. Gullies situated in areas accessible to wheeled vehicles are to be of suitable construction, Typically Hepworth square gully ref. SG2/1 with driveway grating ref. 1HDC for a single private drive. For communal parking areas refer to the detail shown on ID Civils Design drawing number 4663-C-03-01.
13. Drains within areas of "made ground" to be constructed by first making up the area to approx. finished level and then excavating through the fill material into undisturbed ground. The drain trench is then to be back filled to formation level using suitable granular fill material well-compacted in layers not exceeding 225mm.
14. Drains to be constructed under dwellings with suspended floor slabs should either be installed using a proprietary hanger system where "beam and pot" or similar construction is used, or should be cast into local slab thickening where reinforced concrete ground slabs are to be poured in-situ.
15. Finished ground levels have been prepared assuming that the level threshold to the building, is in accordance with part M of the building regulations, is at the front of the property unless otherwise stated.
16. For all details of fences/walls and enclosures refer to architect for details.
17. ACO type drainage to all car parking areas serving more than two cars to be ACO Multidrain MD, 200mm wide channel with min. C250 covers with "heelguard" type openings. ACO type drainage to private garages to be minimum 150mm wide channels and to door thresholes minimum 100mm wide channels, SHALLOW DEPTH CHANNELS SHALL NOT BE USED
18. Roadmarkings shall be to Traffic Signs Regulations and General Directions 2016. Markings in hot applied white thermoplastic.

Rev	Description	By	Date
F	Legend revised	AH	24:11:17
E	Surface course spec. amended in line with Highways Authority request	AH	29:08:17
D	ISSUED FOR CONSTRUCTION	AH	05:07:17
C	Drainage detail changes	AH	21:06:17
B	Boundaries updated, land drain added	AH	20:04:17
A	Roadmarkings added	AH	13:01:17

Client:

HILLCREST HOMES

Project Title:

WHALLEY ROAD,
HURST GREEN

Drawing Title:

SECTION 278 WORKS TO WHALLEY ROAD

Scale	Date
Various @ A0	NOVEMBER 2016
Drawing No	Revision	Status
4663-C-D7-01	F	Constr.

ID Civils Design Consulting Engineers
Geo Structures Civils

North East & Yorkshire:
Aske Stables, Aske, Richmond, North Yorkshire, DL10 5HG
T: 01748 889015
F: 01565 740263

North West & Midlands:
Caledonian House, Tatton Street, Knutsford, Cheshire. WA16 6AG
T: 01565 755557
F: 01565 740263