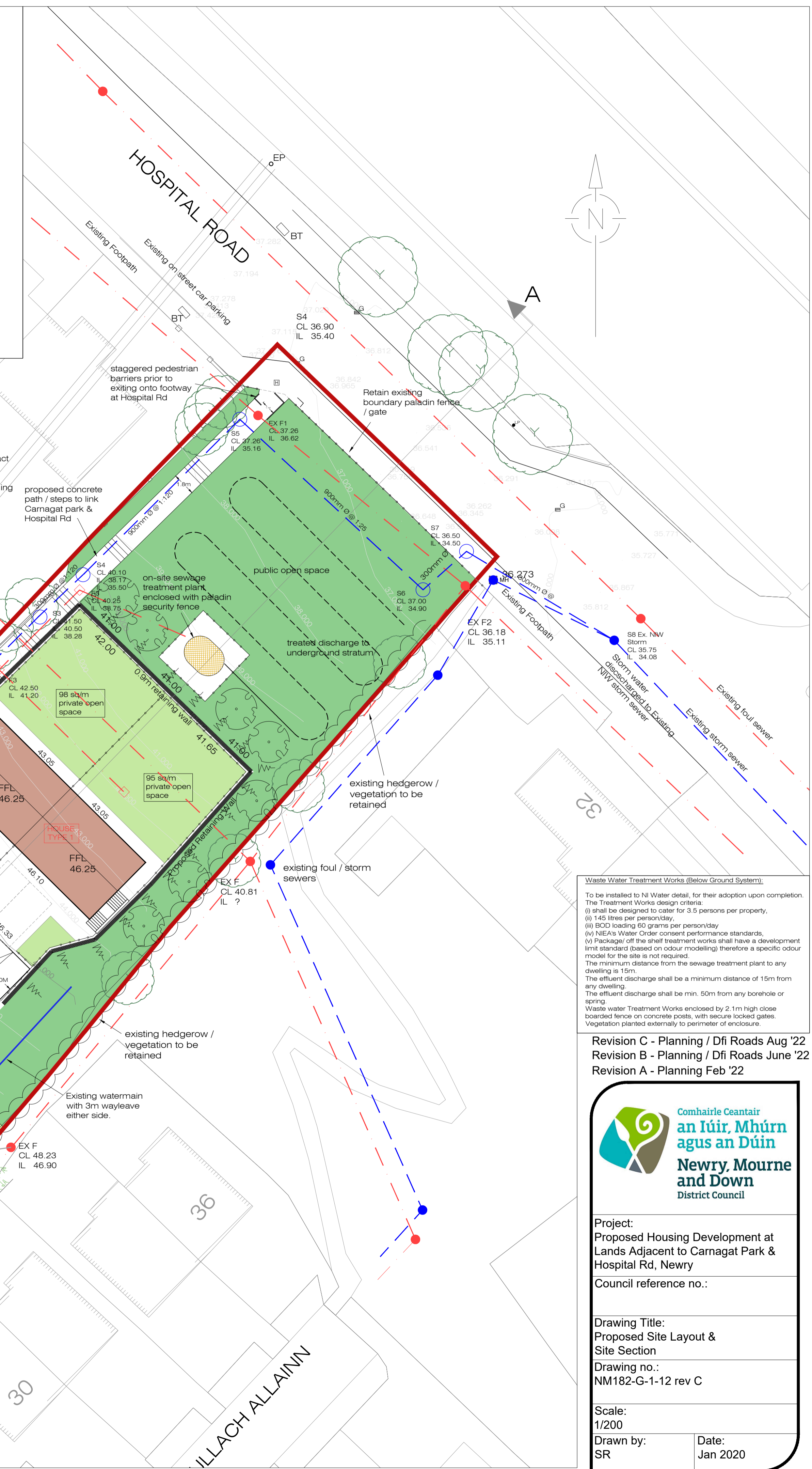
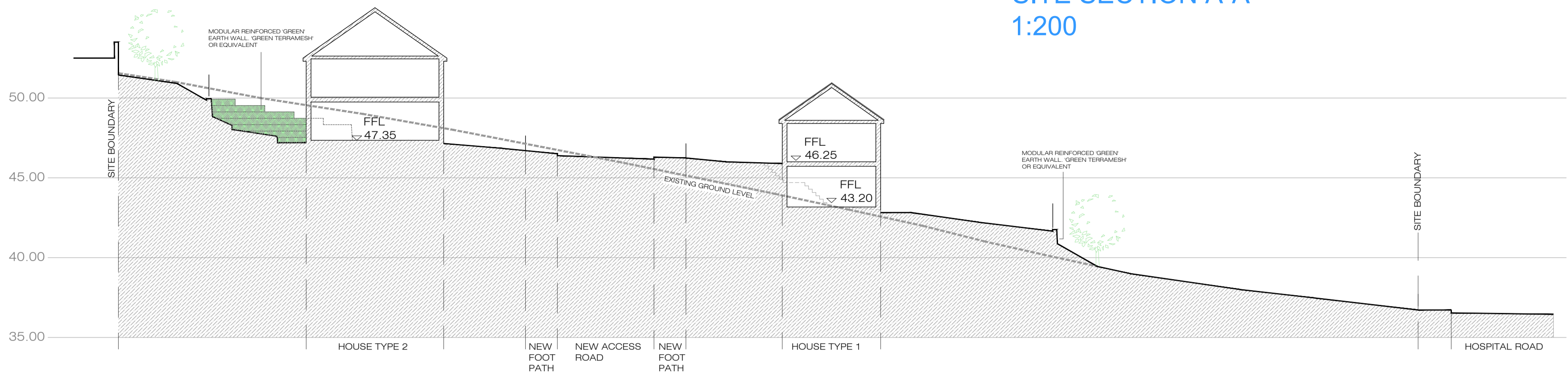


SITE SECTION A-A
1:200



Key:

	existing levels
	proposed levels
	proposed trees
	existing trees to be retained
	existing hedgerow to be retained
	modular reinforced 'green' earth wall 'Green Terramesh or equivalent'
	proposed metal bow top railings
	existing foul sewer
	existing storm sewer
	proposed foul sewer
	proposed storm sewer
	public open space
	private garden space
	graded ground 1:2

Construction Notes:

- All materials and components used in the construction of the sewerage systems shall conform with the current edition of the Standard Specification for Water & Sewerage Schemes as prepared by the Scottish Development Depts following amendments:-
 - All UPVC pipes, joints and fittings to B.S 4660: 1989 or B.S 5481:1998
 - All vitrified clay fittings and joints to B.S 65:1991
 - All concrete pipes, fittings and joints to B.S 5911: Part 100 1988
- Concrete bricks for manholes to B.S 6073: Part 1: 1981
- Manhole covers and frames, Grade A Class 2 Heavy Duty Type MA-60 IB.S.E.N 124 in roads and driveways. In footpaths and verges and gardens-Medium Duty Type MB2 -60
- All gully gratings to B.S.E.N124: 1994 - Type GA2 / 325 (Ductile Iron)

- Where sewers pass under roads, footpaths or driveways, the minimum cover depth to the crown of any pipeline shall be 1.2m; where sewers pass under verges, gardens etc. the minimum cover shall be 750mm. Where sufficient cover cannot be obtained sewer pipes shall be surrounded with 150mm thick concrete of class C20/20 or subject to the DRD Water Services Sub - Divisional Engineers approval, surrounded with 150mm compacted thickness of type 'C' granular material rated over with 150mm thick layer of lean mix concrete- all or else as specified to B.S 5911
- All pipelines of less than 300mm nominal bore to be laid on class 'B' granular bedding
- Where possible main channel inverts through manholes shall be vitrified clay. UPVC lipped and chipped channels of approved manufacture may be used where prior approval has been granted by the Sub - Divisional Engineer of DRD Water Service
- Where possible domestic sewers shall be connected to manholes on the main sewer; where connections are made direct to the pipeline, all work should accord with clause 514 of the specification in Note 2 above.
- Road and footpath finishes:
 - Roads - w / c bitmac
 - Footpaths - w / c asphalt
 - Over-ride strip - block pavior or w/c asphalt with 20mm pre-coated chippings
 - Parking spaces - block pavior or w/c asphalt with 20mm pre-coated chippings
- 800mm clearance strips at rear of parking spaces to be kept free of all obstruction.
- Drainage Works to be undertaken to the 'Civil Engineering Specification for the Water Industry' 7th Edition and to be compliant with Sewers for Adoption Northern Ireland (1st Edition). Road works to be undertaken in accordance with 'The Private Streets Construction Regulations (NI) 1994'. & The Private Streets (Construction) (Amendment) Regulations (Northern Ireland) 2001

Waste Water Treatment Works (Below Ground System):
To be installed to NI Water detail, for their adoption upon completion. The Treatment Works design criteria:
 (i) shall be designed to cater for 3.5 persons per property,
 (ii) 145 litres per person/day,
 (iii) BOD loading 60 grams per person/day
 (iv) NIEA Water Order consent performance standards.
 (v) Package of the effluent treatment works shall have a specific odour limit standard (based on odour modelling) therefore a specific odour model for the site is not required.
 The minimum distance from the sewage treatment plant to any dwelling is 15m.
 The effluent discharge shall be a minimum distance of 15m from any dwelling.
 The effluent discharge shall be min. 50m from any borehole or spring.
 Waste water Treatment Works enclosed by 2.1m high close boarded fence on concrete posts, with secure locked gates.
 Vegetation planted externally to perimeter of enclosure.

Revision C - Planning / Df Roads Aug '22
 Revision B - Planning / Df Roads June '22
 Revision A - Planning Feb '22

Project: Proposed Housing Development at Lands Adjacent to Carnagat Park & Hospital Rd, Newry

Council reference no.:

Drawing Title: Proposed Site Layout & Site Section

Drawing no.: NM182-G-1-12 rev C

Scale: 1/200

Drawn by: SR

Date: Jan 2020