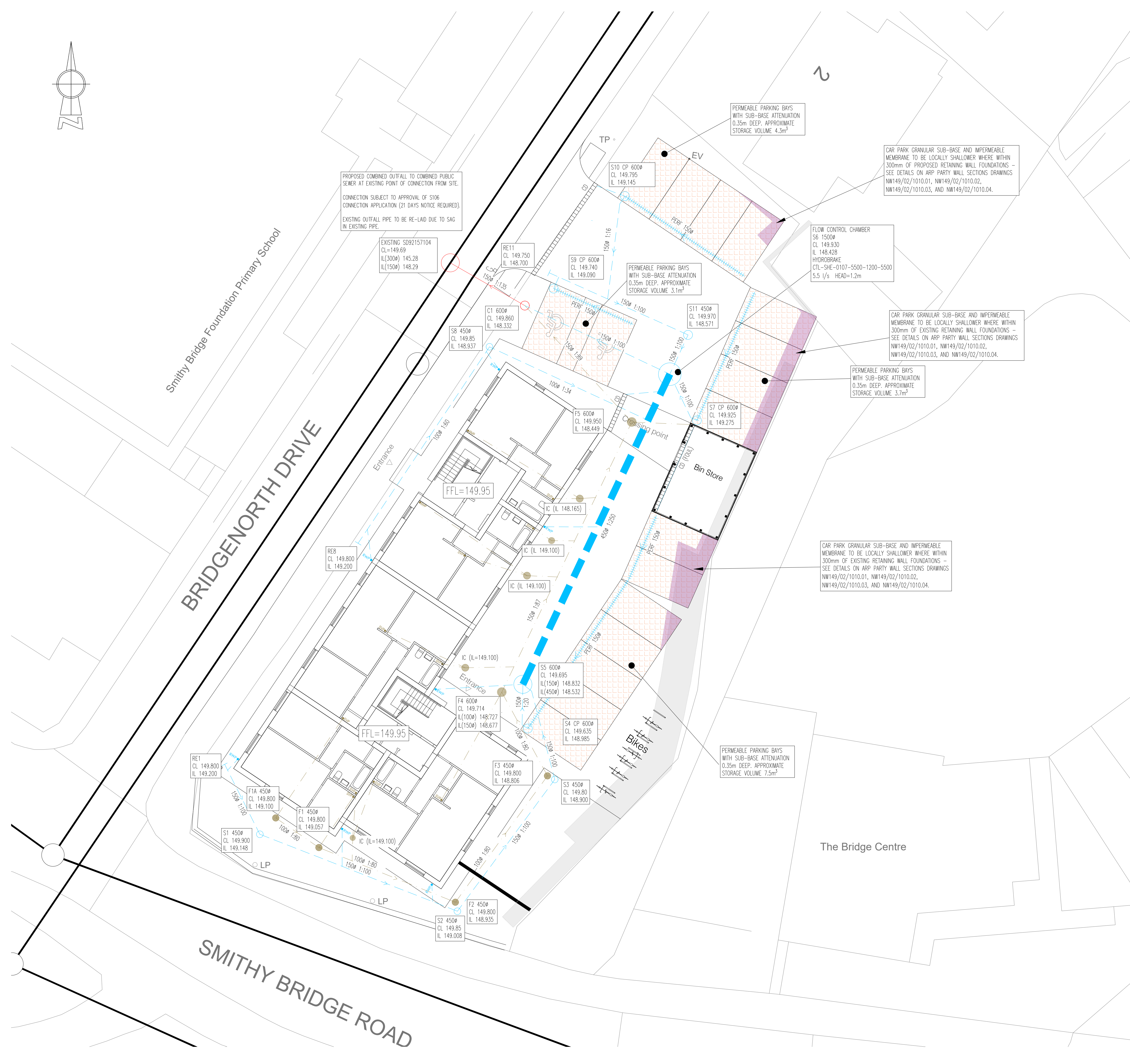




K E Y

N O T E S

Storm water manhole

Foul water manhole

Storm water drain

Foul water drain

Combined sewer

Perforated drain

Permeable Block Paving

Gully

Channel Drain (min D400 grade cover)

Existing foundation to retaining wall

Area of locally shallower sub-base to car park – see details on drawings NW149/02/1010.01, NW149/02/1010.02, NW149/02/1010.03, NW149/02/1010.04

ATTENTION IS DRAWN TO THE REQUIREMENTS OF THE CONSTRUCTION DESIGN AND MANAGEMENT REGULATIONS 2015 AND THE DUTIES AND RESPONSIBILITIES CONTAINED THEREIN

General Notes

1. This drawing is to be read in conjunction with all relevant ARP and Architects drawings and project specifications.

2. All drainage works shall be carried out in accordance with the relevant parts of BS EN 752 'Drains and Sewer Systems Outside Buildings', the current Building Regulations and the Local Authority Building Control specifications and requirements.

3. The location, size and depth of all existing drains/sewers and services shall be established by the contractor prior to commencement of works on site. Any discrepancies from the information indicated on these drawings shall immediately be brought to the attention of the engineers.

4. All levels and dimensions shall be verified on site prior to commencement of any works. Any discrepancies shall immediately be brought to the attention of the engineers.

5. All pipes shall be laid with soffits level. All manhole/inspection chamber invert levels shown are for the outlet pipe (unless specified otherwise). All pipe runs shall be laid to the levels indicated.

6. All private foul and surface water pipes to be 100mm Ø unless stated otherwise.

7. All connections to public sewers to be a minimum of 150mm Ø.

8. All private manholes within Road/corpark to have D400 covers with concrete collar, all others to be A15.

9. All private backdrop manholes to be 900mmØ PCC chambers unless stated otherwise.

10. 450mmØ chambers for depths greater than 1.2m, restricted access opening to 350mm is required for safety reasons.

11. All RWP's & SVP's connections to be 100mm dia (unless specified otherwise by the Architect). Gully connections to be 150mm dia.

12. All RWP's, SVP's and connections are shown indicatively or to the latest Architects drawings. Position of down pipes must be confirmed from Architects drawing before laying underground pipework. All down pipes should be provided with a roddable access point above the FFL.

13. All private drainage laid within 1m from tree canopies and hedges to have concrete bed and surround.

14. Filled ground or soft spots must be excavated, backfilled and consolidated before any drainage works are carried out.

15. All excavations in areas of high water tables and granular materials with high sand/silt contents shall be wrapped with a suitable geotextile filter membrane to prevent migration of sands/silts. Full height clay stanks across trenches and/or at manhole locations at 25m intervals to restrict water movement along the excavation shall be provided.

16. No water should be allowed to discharge from any private drives onto the adaptable highways. All private gullies and channel drainage positions shown may vary to suit on site working conditions.

17. Do not scale from this drawing.

FLOW CONTROL DATA

MANUFACTURER	HYDRO INTERNATIONAL
TELEPHONE	01275 878371
TYPE	optimum
FLOW/HEAD	5.5 l/s 1.2m Head
HYDRO REF	CTL-SHE-0107-5500-1200-5500
To be installed in accordance with manufacturers specifications and recommendations before the manhole cover slab is installed	

NOTE
Lateral sewers to be Plastidrain (110 & 160 O.D.) in UPVC and manufactured by Hepworth or similar approved by United Utilities. Demarcation chamber to be polypropylene Non-Entry Inspection Chamber up to 2.0m depth manufactured by Wavin or similar approved by United Utilities to BS EN 13598-1:2003.

E	MW	26.04.23	General updates	MW	MI
D	MW	18.01.22	Minor amendments for consistency	MW	MI
C	AT	06.12.21	Architects layout updated	MW	MI
B	AT	05.07.21	Architects layout B, RWP, SVP & extg MH	MW	MI
A	AT	01.06.21	Permeable parking bays amended	MW	MI
/	AT	03.05.21	Issued for approval	MW	MI
Rev	By	Date	Revision	Chk	Apvd

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ARP Associates is a trading division of ARP Geotechnical Ltd, a company registered in England and Wales with company number 3771811, whose registered office is at 5/6 Northwest Business Park, Servia Hill, Leeds LS6 2QH

TITLE	PRIVATE DRAINAGE LAYOUT				
PROJECT	SMITHYBRIDGE PUB LITTLEBOROUGH				
CLIENT	ARMSTRONG PROJECTS LTD				
DRAWING STATUS	PRELIMINARY				
Scale	1:125 @ A1	Date	MAY 21	Drawn	AT
				Chk.	MW
Drg. No.	NW149-02-03				Rev
					E

SUBJECT TO THE APPROVAL OF ALL RELEVANT AUTHORITIES