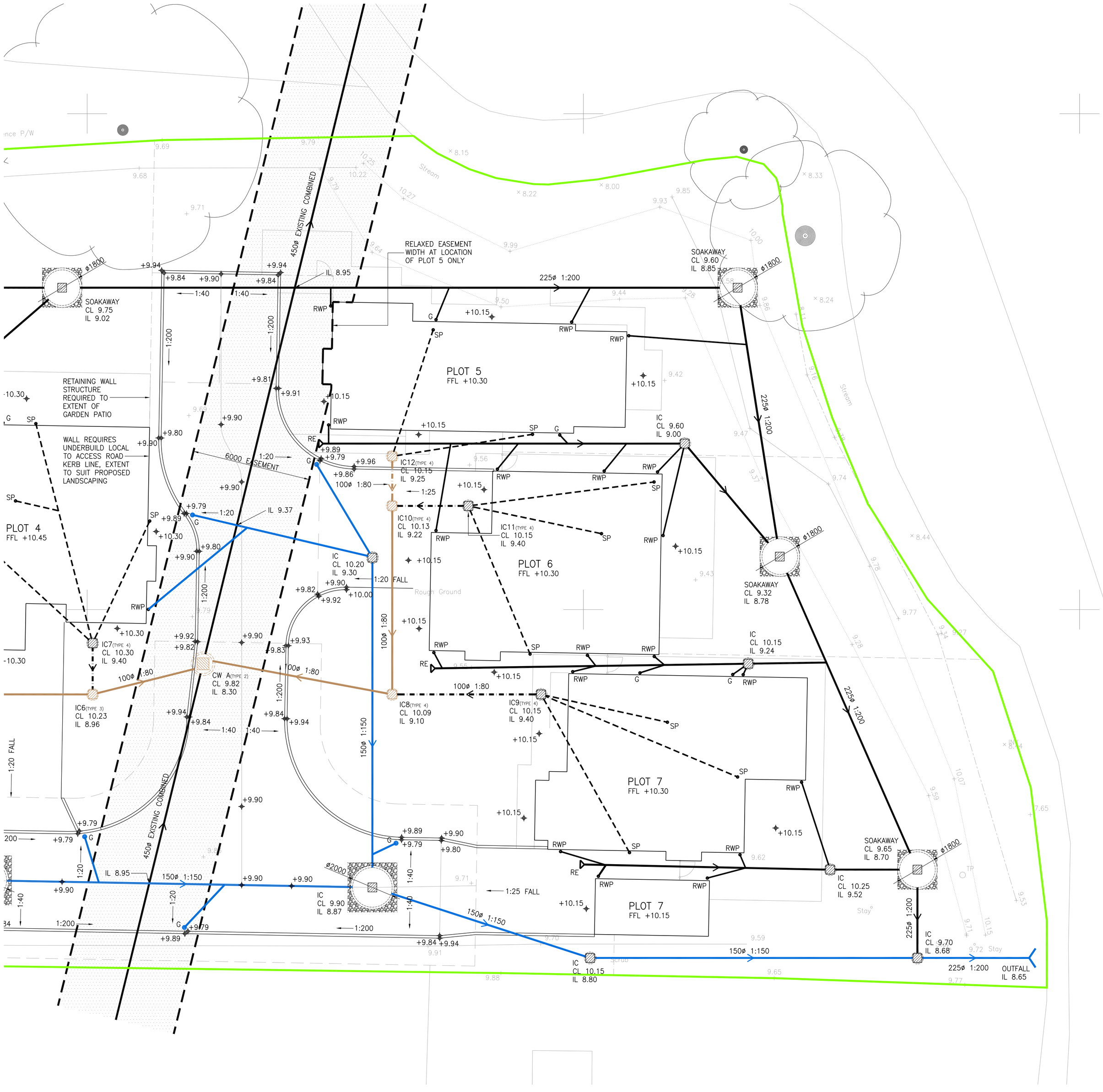


DRAINAGE NOTES:

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECT'S, ENGINEER'S AND OTHER SPECIALISTS' DRAWINGS

THE CONTRACTOR IS RESPONSIBLE FOR CHECKING DIMENSIONS AND LEVELS AND FOR CONFIRMING THE GIVEN LEVEL OF OUTFALL INTO PUBLIC SEWER, WATERCOURSE OR OTHER DETAIL

REFER TO ARCHITECT FOR ALL SETTING OUT

WORK TO FIGURED DIMENSION ONLY. DO NOT SCALE

ALL WORKS TO BE IN ACCORDANCE WITH BS EN752: BRITISH STANDARD FOR DRAIN AND SEWER SYSTEMS OUTSIDE BUILDINGS AND THE BUILDING REGULATIONS, SEWERS FOR ADOPTION 7th ADDITION AND THE WELSH MINISTERS STANDARDS

ALL CLAY PIPEWORK AND FITTINGS TO BE PLAIN AND VITRIFIED CLAY WITH FLEXIBLE POLYPROPYLENE COUPLINGS AS HEPWORTH SUPERSLEEVE OR NAYLOR DENSLEEVE. ALL CONCRETE PIPEWORK TO BE TO BS5911

ALL GRAVITY PVCU PIPEWORK TO BE TO BS4660 OR BS5481 WHERE RELEVANT UNLESS NOTED OTHERWISE

TRENCHES FOR PIPEWORK UNDER ROADS AND ACCESSWAYS TO BE BACKFILLED WITH GRANULAR MATERIAL IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL AUTHORITY

ALL PIPES UNDER ROADS AND ACCESSWAYS WITH DEPTH LESS THAN 1200mm TO HAVE 150mm CONCRETE BED & SURROUND

ALL PIPES TO BE LAID ON CLASS S GRANULAR BED AND SURROUND

POLYPROPYLENE ACCESS CHAMBERS TO BE MIN. 225 DIA FOR DEPTHS UP TO 600mm AND A MIN. 450 DIA. FOR DEPTHS UP TO 1000mm

ALL CHAMBER AND MANHOLE COVERS AND FRAMES IN ROADS AND ACCESSWAYS TO BE TO BS EN 124 CLASS D400. IN GARDENS, FOOTWAYS AND LANDSCAPED AREAS TO BE TO CLASS B125

MINIMUM PIPE DIAMETER UNDER ROADS AND ACCESSWAYS TO BE 150mm UNO

FOUL WATER – ALL PIPES BENEATH BUILDINGS AND FROM SVPS, GULLIES AND WC CONNECTIONS TO ACCESS CHAMBERS TO BE 100mm AT A MINIMUM GRADIENT OF 1:40 UNLESS NOTED OTHERWISE. MIN. GRADIENT OF 100mm PIPE BETWEEN ACCESS CHAMBERS OUTSIDE BUILDING TO BE 1:80 UNO

SURFACE WATER – MIN. GRADIENT OF 100mm PIPE BETWEEN ACCESS CHAMBERS/RODDING EYES OUTSIDE BUILDINGS TO BE 1:100 UNO

CONNECTION TO EXISTING PUBLIC SEWER MANHOLE TO BE AGREED WITH WELSH WATER

CDM REGULATIONS 2007

IN LINE WITH THE ABOVE REGULATIONS WE ARE OBLIGED TO INFORM THE CONTRACTOR OF THE RISKS THAT MAY BE ENCOUNTERED IN THE CONSTRUCTION OF THESE WORKS. ALL DESIGN WORK HAS BEEN CARRIED OUT WITH HEALTH & SAFETY ASPECTS GIVEN FULL CONSIDERATION. WHEREVER POSSIBLE RISKS HAVE BEEN ELIMINATED FROM THE DESIGN, HOWEVER DUE TO THE VERY NATURE OF THIS TYPE OF WORK IT IS NOT POSSIBLE TO REMOVE ALL RISKS FROM THE DESIGN.
WE WOULD ALSO RESPECTFULLY REMIND THE CONTRACTOR OF HIS OBLIGATIONS TO TAKE ALL REASONABLE STEPS ENSURING THAT ONLY COMPETENT WORKERS WHO HAVE A VALID SAFETY POLICY ARE EMPLOYED.
THEY SHOULD ALSO PROVIDE SATISFACTORY RESPONSES AT CONSTRUCTION STAGE AS TO THE MANNER IN WHICH THEY DEAL WITH THE ELEMENTS OF RISK INVOLVED IN THIS TYPE OF WORK AND IN PARTICULAR THOSE HIGHLIGHTED BY HALTEC (CHESTER) LIMITED BELOW:–

1. SUPPORT/TREATMENT FOR ALL EXCAVATION WORK
2. GUARDING TO EDGES OF EXCAVATIONS TO PREVENT PEOPLE, MATERIALS AND VEHICLES FALLING INTO EXCAVATIONS.
3. GUARDING OF EXCAVATIONS OUTSIDE WORKING HOURS TO PREVENT UNAUTHORISED ACCESS.
4. UNDERMINING TO ADJACENT ROADS OR STRUCTURES.
5. CONFINED SPACE OPERATIONS.
6. DEALING WITH EXISTING SERVICES.
7. TRAFFIC MANAGEMENT ON EXISTING HIGHWAYS
8. PROCEDURE TO BE FOLLOWED IN EVENT OF ACCIDENT OR EMERGENCY.
9. METHOD OF WORKING WHERE CONTAMINATED GROUND IS PRESENT ON SITE.
10. CONFIRMATION WILL BE REQUIRED THAT ALL OPERATIVES ARE ADEQUATELY TRAINED, AND COPIES OF RELEVANT CERTIFICATES TO BE SUPPLIED.

THE ABOVE LIST IS BY NO MEANS EXHAUSTIVE BUT IT DOES HIGHLIGHT OPERATIONS THAT PRESENT A RISK CONTRACTORS AND THE GENERAL PUBLIC.

Rev.	Date	Drn	Chk	Details
P6	04.03.14	DRB	JDH	PLOTS 1&4 : SLAB FFL'S 10.45
P5	03.03.14	DRB	JDH	RE-DESIGN : SLAB FFL'S 10.30 TYPICAL
P4	28.02.14	DRB	JDH	SOAKAWAY DESIGN
P3	27.02.14	DRB	JDH	UPDATED – WELSH WATER COMMENTS
P2	27.02.14	DRB	JDH	UPDATED – WELSH WATER COMMENTS
P1	19.02.14	DRB	JDH	PRELIMINARY DRAWING ISSUE

Client
BLUEOAK ESTATES

Project
DARLANDS COURT
CHESTER

Drawing Title
DRAINAGE GA
SURFACE AND FOUL WATER
(SHEET 3 OF 3)

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Drawn	Scale	Date	Checked
DRB	AS SHOWN @ A1	FEB '14	JDH

Purpose of issue
PRELIMINARY

Dwg No.
GN0585–03

Revision
P6

A1