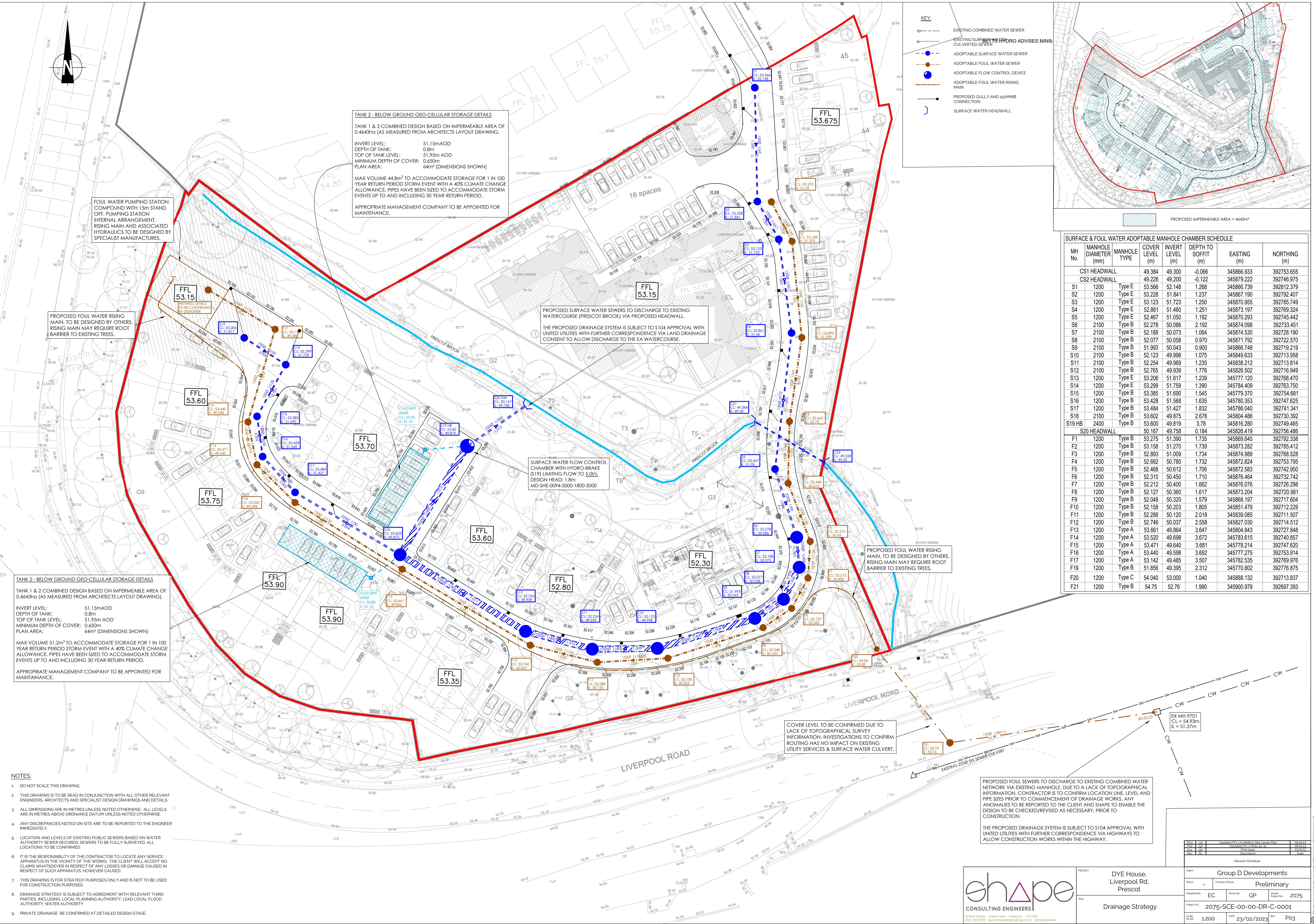




TANK 2 - BELOW GROUND GEO-CELLULAR STORAGE DETAILS

TANK 1 & 2 COMBINED DESIGN BASED ON IMPERMEABLE AREA OF 0.4643ha (AS MEASURED FROM ARCHITECTS LAYOUT DRAWING).

INVERT LEVEL: 51.15m AOD
DEPTH OF TANK: 0.8m
TOP OF TANK LEVEL: 51.95m AOD
MINIMUM DEPTH OF COVER: 0.650m
PLAN AREA: 64m² (DIMENSIONS SHOWN)

MAX VOLUME 44.8m³ TO ACCOMMODATE STORAGE FOR 1 IN 100 YEAR RETURN PERIOD STORM EVENT WITH A 40% CLIMATE CHANGE ALLOWANCE. PIPES HAVE BEEN SIZED TO ACCOMMODATE STORM EVENTS UP TO AND INCLUDING 30 YEAR RETURN PERIOD.

APPROPRIATE MANAGEMENT COMPANY TO BE APPOINTED FOR MAINTENANCE.

FOUL WATER PUMPING STATION COMPOUND WITH 15m STAND OFF. PUMPING STATION INTERNAL ARRANGEMENT, RISING MAIN AND ASSOCIATED HYDRAULICS TO BE DESIGNED BY SPECIALIST MANUFACTURERS.

PROPOSED FOUL WATER RISING MAIN, TO BE DESIGNED BY OTHERS. RISING MAIN MAY REQUIRE ROOT BARRIER TO EXISTING TREES.

PROPOSED SURFACE WATER SEWERS TO DISCHARGE TO EXISTING WATERCOURSE (PRESCOT BROOK) VIA PROPOSED HEADWALL.

THE PROPOSED DRAINAGE SYSTEM IS SUBJECT TO S104 APPROVAL WITH UNITED UTILITIES WITH FURTHER CORRESPONDENCE VIA LAND DRAINAGE CONSENT TO ALLOW DISCHARGE TO THE EA WATERCOURSE.

SURFACE WATER FLOW CONTROL CHAMBER WITH HYDRO-BRAKE (S19) LIMITING FLOW TO 5.0l/s. DESIGN HEAD: 1.8m MD-SHE-0074-5000-1800-5000

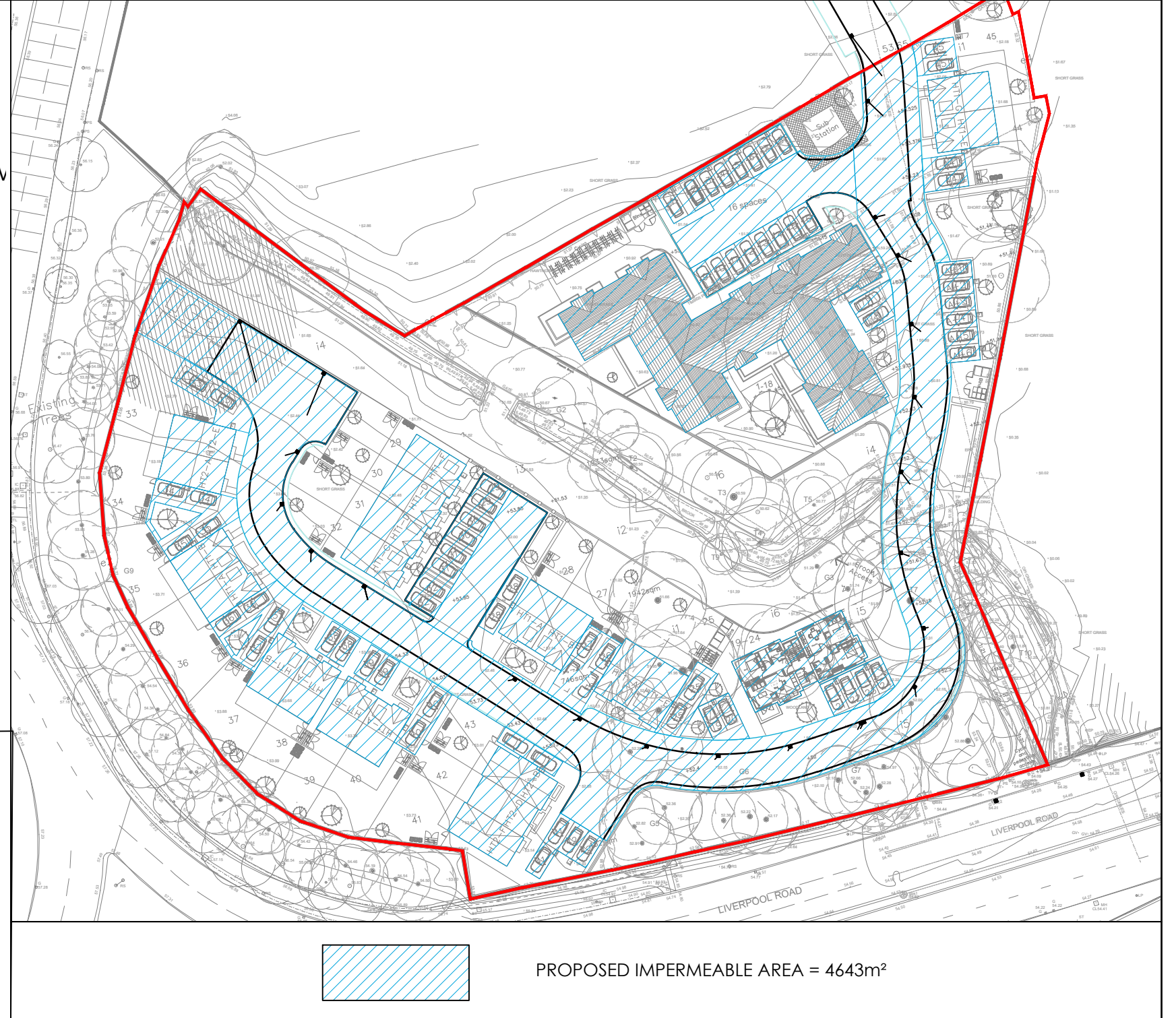
PROPOSED FOUL WATER RISING MAIN, TO BE DESIGNED BY OTHERS. RISING MAIN MAY REQUIRE ROOT BARRIER TO EXISTING TREES.

COVER LEVEL TO BE CONFIRMED DUE TO LACK OF TOPOGRAPHICAL SURVEY INFORMATION. INVESTIGATIONS TO CONFIRM ROUTING HAS NO IMPACT ON EXISTING UTILITY SERVICES & SURFACE WATER CULVERT.

PROPOSED FOUL SEWERS TO DISCHARGE TO EXISTING COMBINED WATER NETWORK VIA EXISTING MANHOLE. DUE TO A LACK OF TOPOGRAPHICAL INFORMATION, CONTRACTOR IS TO CONFIRM LOCATION LINE, LEVEL AND PIPE SIZES PRIOR TO COMMENCEMENT OF DRAINAGE WORKS. ANY ANOMALIES TO BE REPORTED TO THE CLIENT AND SHAPE TO ENABLE THE DESIGN TO BE CHECKED/REVISED AS NECESSARY, PRIOR TO CONSTRUCTION.

THE PROPOSED DRAINAGE SYSTEM IS SUBJECT TO S104 APPROVAL WITH UNITED UTILITIES WITH FURTHER CORRESPONDENCE VIA HIGHWAYS TO ALLOW CONSTRUCTION WORKS WITHIN THE HIGHWAY.

- KEY:**
- EXISTING COMBINED WATER SEWER
 - EXISTING SURFACE WATER SEWER
 - ADOPTABLE SURFACE WATER SEWER
 - ADOPTABLE FOUL WATER SEWER
 - ADOPTABLE FLOW CONTROL DEVICE
 - ADOPTABLE FOUL WATER RISING MAIN
 - PROPOSED GULLY AND 150mmØ CONNECTION
 - SURFACE WATER HEADWALL



PROPOSED IMPERMEABLE AREA = 4643m²

SURFACE & FOUL WATER ADOPTABLE MANHOLE CHAMBER SCHEDULE

MH No.	MANHOLE DIAMETER (mm)	MANHOLE TYPE	COVER LEVEL (m)	INVERT LEVEL (m)	DEPTH TO SOFFIT (m)	EASTING (m)	NORTHING (m)
CS1 HEADWALL			49.384	49.300	-0.086	345866.933	392753.655
CS2 HEADWALL			49.228	49.200	-0.122	345879.222	392746.975
S1	1200	Type E	53.566	52.148	1.268	345866.739	392812.379
S2	1200	Type E	53.228	51.841	1.237	345867.190	392792.407
S3	1200	Type E	53.123	51.723	1.250	345870.955	392785.749
S4	1200	Type E	52.881	51.460	1.251	345873.197	392769.324
S5	1200	Type E	52.467	51.050	1.192	345870.293	392745.442
S6	2100	Type B	52.278	50.086	2.192	345874.098	392733.451
S7	2100	Type B	52.168	50.073	1.064	345874.530	392728.190
S8	2100	Type B	52.077	50.058	0.970	345871.792	392722.570
S9	2100	Type B	51.993	50.043	0.900	345866.748	392719.219
S10	2100	Type B	52.123	49.998	1.075	345849.633	392713.958
S11	2100	Type B	52.254	49.969	1.235	345838.212	392713.814
S12	2100	Type B	52.765	49.939	1.776	345826.502	392716.949
S13	1200	Type E	53.206	51.817	1.239	345777.120	392768.470
S14	1200	Type E	53.299	51.759	1.390	345784.409	392763.750
S15	1200	Type B	53.385	51.690	1.545	345779.370	392754.681
S16	1200	Type B	53.428	51.568	1.635	345780.353	392747.625
S17	1200	Type B	53.484	51.427	1.832	345786.040	392741.341
S18	2100	Type B	53.602	49.875	2.676	345804.486	392730.392
S19 HB	2400	Type B	53.600	49.819	3.78	345816.280	392749.465
S20 HEADWALL			50.167	49.758	0.184	345826.419	392756.486
F1	1200	Type B	53.275	51.390	1.735	345869.645	392792.338
F2	1200	Type B	53.158	51.270	1.739	345873.282	392785.412
F3	1200	Type B	52.893	51.009	1.734	345874.989	392768.528
F4	1200	Type B	52.662	50.780	1.732	345872.824	392753.795
F5	1200	Type B	52.468	50.612	1.706	345872.583	392742.950
F6	1200	Type B	52.310	50.450	1.710	345876.464	392732.742
F7	1200	Type B	52.212	50.400	1.662	345876.076	392726.298
F8	1200	Type B	52.127	50.360	1.617	345873.204	392720.981
F9	1200	Type B	52.048	50.320	1.579	345868.197	392717.604
F10	1200	Type B	52.158	50.203	1.805	345851.479	392712.229
F11	1200	Type B	52.288	50.120	2.018	345839.085	392711.507
F12	1200	Type B	52.746	50.037	2.558	345827.030	392714.512
F13	1200	Type A	53.661	49.864	3.647	345804.843	392727.848
F14	1200	Type A	53.520	49.698	3.672	345783.615	392740.857
F15	1200	Type A	53.471	49.640	3.681	345778.214	392747.620
F16	1200	Type A	53.440	49.598	3.692	345777.275	392753.914
F17	1200	Type A	53.142	49.485	3.507	345782.535	392769.976
F19	1200	Type B	51.856	49.395	2.312	345770.802	392776.875
F20	1200	Type C	54.040	53.000	1.040	345888.132	392713.837
F21	1200	Type B	54.75	52.76	1.990	345900.979	392697.393

NOTES:

- DO NOT SCALE THIS DRAWING.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ENGINEERS, ARCHITECTS AND SPECIALIST DESIGN DRAWINGS AND DETAILS.
- ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE. ALL LEVELS ARE IN METRES ABOVE ORDNANCE DATUM UNLESS NOTED OTHERWISE.
- ANY DISCREPANCIES NOTED ON SITE ARE TO BE REPORTED TO THE ENGINEER IMMEDIATELY.
- LOCATION AND LEVELS OF EXISTING PUBLIC SEWERS BASED ON WATER AUTHORITY SEWER RECORDS. SEWERS TO BE FULLY SURVEYED. ALL LOCATIONS TO BE CONFIRMED.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ANY SERVICE APPARATUS IN THE VICINITY OF THE WORKS. THE CLIENT WILL ACCEPT NO CLAIMS WHATSOEVER IN RESPECT OF ANY LOSSES OR DAMAGE CAUSED IN RESPECT OF SUCH APPARATUS, HOWEVER CAUSED.
- THIS DRAWING IS FOR STRATEGY PURPOSES ONLY AND IS NOT TO BE USED FOR CONSTRUCTION PURPOSES.
- DRAINAGE STRATEGY IS SUBJECT TO AGREEMENT WITH RELEVANT THIRD PARTIES, INCLUDING LOCAL PLANNING AUTHORITY, LEAD LOCAL FLOOD AUTHORITY, WATER AUTHORITY.
- PRIVATE DRAINAGE TO BE CONFIRMED AT DETAILED DESIGN STAGE.



PROJECT: DYE House, Liverpool Rd, Prescott

TITLE: Drainage Strategy

Client: Group D Developments

Status: Preliminary

Designed By: EC Drawn By: GP Project No: 2075

Project No: 2075-SCE-00-00-DR-C-0001

Scale: 1:200 Date: 23/02/2023 Rev: P03