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SURFACE WATER DRAINAGE (SEE CALCULATION SHEETS)

WORST CASE SOAKAWAY DRAINAGE IS SHOWN ASSUMING NO ACCESS TO THE HIGHWAYS AGENCY PIPED SPRING AND OUTFALL TO THE RIVER EMS OR CAPACITY UPGRADE OF THE 300 OUTFALL FROM NEW BRIGHTON ROAD

DISCHARGE FROM THE HARD SURFACE AREAS IS VIA A PERMEABLE PAVING SYSTEM WITH VARIABLE DEPTH CONSTRUCTION TO SUIT LOCATION AND LOADING AS LOW RISK CONTAMINATED DISCHARGE FILTERED BY THE PAVING MEDIUM AND VIA TWO BY-PASS OIL SEPARATORS.

DUE TO THE SUBSOIL PERFORMANCE, PERCOLATION DIRECT FROM THE PAVING MEDIUM WILL BE NEGLIGABLE OTHER THAN IN DROUGHT CONDITIONS.

DUE TO SITE LAYOUT LEVELS AND CONSTRAINTS THE SOAKAWAY LOCATIONS REQUIRE A PUMPED DISCHARGE. FLOW RATES REQUIRE TWO 30000 LITRE ATTENUATION TANKS TO LIMIT THE SCALE OF THE PUMPING INSTALLATIONS AND MITIGATE FOR THE POOR INFILTRATION RATE OF THE CLAY BASED SOILS.

THE SOAKAWAYS ARE LARGE AREAS OF CELL CONSTRUCTION PRIMARILY SIZED FOR DISCHARGE RATE RESULTING IN WORST CASE COMBINED PAVING, DRAIN, TANK AND CELL STORAGE CAPACITY OF ONE TEN HOUR AND ONE FOUR HOUR STORM, BUT WITH A 60 HOUR 50% DISCHARGE TIME.

RAINWATER DRAINAGE

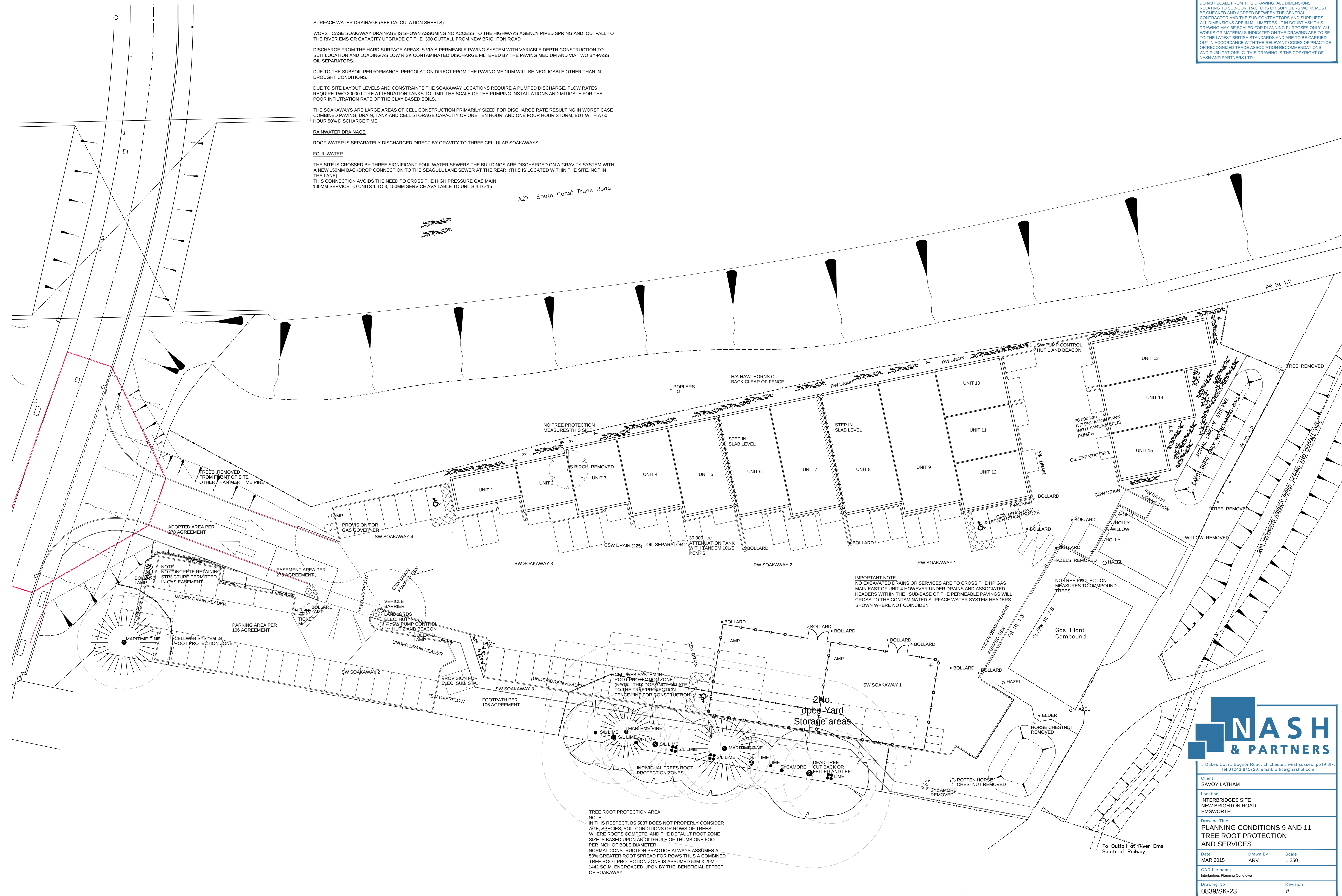
ROOF WATER IS SEPARATELY DISCHARGED DIRECT BY GRAVITY TO THREE CELLULAR SOAKAWAYS

FOUL WATER

THE SITE IS CROSSED BY THREE SIGNIFICANT FOUL WATER SEWERS THE BUILDINGS ARE DISCHARGED ON A GRAVITY SYSTEM WITH A NEW 150MM BACKDROP CONNECTION TO THE SEAGULL LANE SEWER AT THE REAR (THIS IS LOCATED WITHIN THE SITE, NOT IN THE LANE)

THIS CONNECTION AVOIDS THE NEED TO CROSS THE HIGH PRESSURE GAS MAIN 100MM SERVICE TO UNITS 1 TO 3, 150MM SERVICE AVAILABLE TO UNITS 4 TO 15

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Client
SAVOY LATHAM

Location
INTERBRIDGES SITE
NEW BRIGHTON ROAD
EMSWORTH

Drawing Title
PLANNING CONDITIONS 9 AND 11
TREE ROOT PROTECTION
AND SERVICES

Date
MAR 2015

Drawn By
ARV

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1:250

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