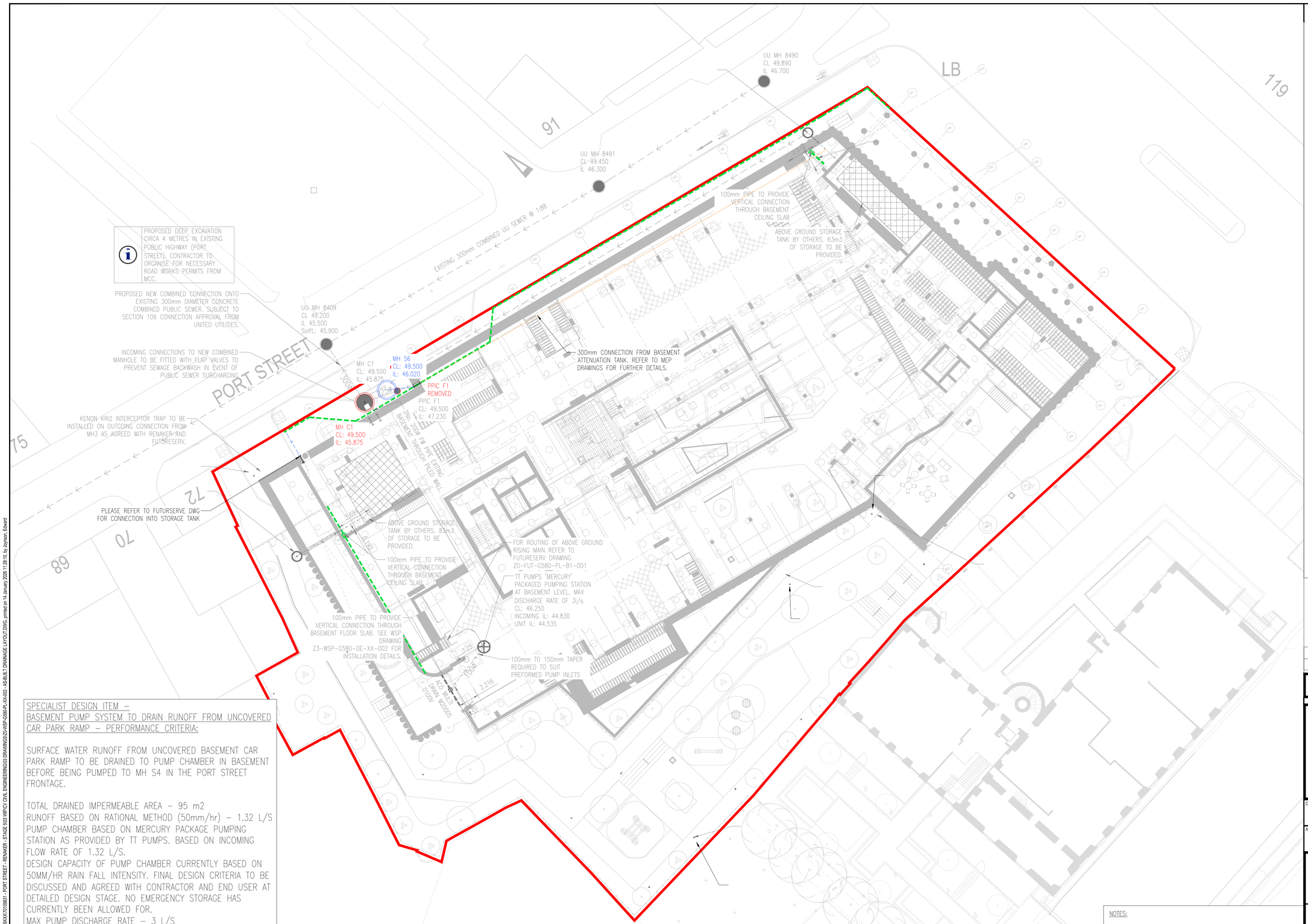


SPECIALIST DESIGN ITEM –
BASEMENT PUMP SYSTEM TO DRAIN RUNOFF FROM UNCOVERED CAR PARK RAMP – PERFORMANCE CRITERIA:

SURFACE WATER RUNOFF FROM UNCOVERED BASEMENT CAR PARK RAMP TO BE DRAINED TO PUMP CHAMBER IN BASEMENT BEFORE BEING PUMPED TO MH S4 IN THE PORT STREET FRONTAGE.

TOTAL DRAINED IMPERMEABLE AREA – 95 m2
RUNOFF BASED ON RATIONAL METHOD (50mm/hr) – 1.32 L/S
PUMP CHAMBER BASED ON MERCURY PACKAGE PUMPING STATION AS PROVIDED BY TT PUMPS. BASED ON INCOMING FLOW RATE OF 1.32 L/S.
DESIGN CAPACITY OF PUMP CHAMBER CURRENTLY BASED ON 50MM/HR RAIN FALL INTENSITY. FINAL DESIGN CRITERIA TO BE DISCUSSED AND AGREED WITH CONTRACTOR AND END USER AT DETAILED DESIGN STAGE. NO EMERGENCY STORAGE HAS CURRENTLY BEEN ALLOWED FOR.
MAX PUMP DISCHARGE RATE – 3 L/S
PUMP SWITCH ON / OFF (DEPTH ABOVE INVERT) – 0.7m (ON), 0.3m (OFF)
PUMP ARRANGEMENT – DUTY / STAND BY
HIGH LEVEL ALARM TELEMETRY WARNING – REQUIRED
BACK UP POWER SUPPLY – TO BE AGREED

RISING MAIN, POWER SUPPLY, TELEMETRY AND ALL OTHER MECHANICAL AND ELECTRICAL REQUIREMENTS TO BE SPECIFIED BY FUTURESERV.

NOTES:

1. ALL LEVELS ARE IN METRES ABOVE ORDNANCE DATUM. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT SCHEME DRAWINGS.
3. FOR THE ASSOCIATED MANHOLE SCHEDULE REFER TO WSP DRAWING Z0-WSP-G580-SC-XX-001.
4. REFER TO WSP DRAWING Z0-WSP-G580-PL-XX-002 FOR THE AS BUILT DRAINAGE LAYOUT AT GROUND FLOOR LEVEL.
5. PUMP AND PPIC TO BE INSTALLED IN BASEMENT TO BE CO-ORDINATED WITH BASEMENT SLAB BY STRUCTURAL ENGINEER. MANHOLE COVERS TO SIT IN RECESS IN SLAB DETAILED BY STRUCTURAL ENGINEER.
6. AS-BUILT DETAILS BASED ON RENAKER MODEL PROVIDED. WSP DOES NOT TAKE ANY RESPONSIBILITY FOR THE ACCURACY OF THIS INFORMATION.

DO NOT SCALE

KEY:

- SITE BOUNDARY
- AS-BUILT ACO DRAIN AT GROUND FLOOR LEVEL
- AS-BUILT SURFACE WATER PIPE + MH
- AS-BUILT MEP CONNECTION
- EXISTING UU COMBINED SEWER + MH
- AS-DESIGNED ACO DRAIN
- AS-DESIGNED SURFACE WATER PIPE + MH
- AS-DESIGNED FOUL PIPE + MH
- AS-DESIGNED COMBINED PIPE + MH
- EXISTING UU COMBINED SEWER + MH
- PODIUM/AMENITY TERRACE PERMEABLE SUBBASE +CRATE SYSTEM
- LOWER EXTERNALS PERMEABLE SUBBASE SYSTEM
- AREA OF LANDSCAPING w/ DRAINAGE BOARD
- PERMEABLE GEOTEXTILE MEMBRANE
- IMPERMEABLE LINER
- FIN DRAIN/DOUBLE HEIGHT GEOCELLULAR CRATES
- ABOVE GROUND ATTENUATION TANK DESIGNED BY OTHERS
- ABOVE GROUND SURFACE/FOUL WATER PIPE & SLEEVING
- AS-DESIGNED 450mm INSPECTION CHAMBER
- AS-DESIGNED FILTER DRAIN
- CLASS Z SURROUND

REV	DATE	BY	DESCRIPTION	CHK	APP
AB1	14/01/2025	EJ	AS BUILT	EJ	SM

DRAWING STATUS: STAGE 5

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CLIENT: RENAKER

ARCHITECT: SIMPSON HAUGH

SITE/PROJECT: PORT STREET, MANCHESTER

TITLE: AS-BUILT DRAINAGE LAYOUT BASEMENT LEVEL

SCALE @ A1:	CHECKED:	APPROVED:
1:200	SM	SM

PROJECT NO:	DESIGNED:	DRAWN:	DATE:
70084548	JEB	JEB	January 26

DRAWING No:	REV:
Z3-WSP-G580-PL-B1-001	AB1

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File name: \\UK.WSPGROUP.COM\CENTRAL DATA\PROJECTS\70108XXX\70108311 - PORT STREET - RENAKER - STAGE 5\03 WIP\CV CIVIL ENGINEERING\03 DRAWINGS\Z0-WSP-G580-PL-XX-002 - AS-BUILT DRAINAGE LAYOUT.DWG, printed on 14 January 2026 11:28:10, by Joynson, Edward