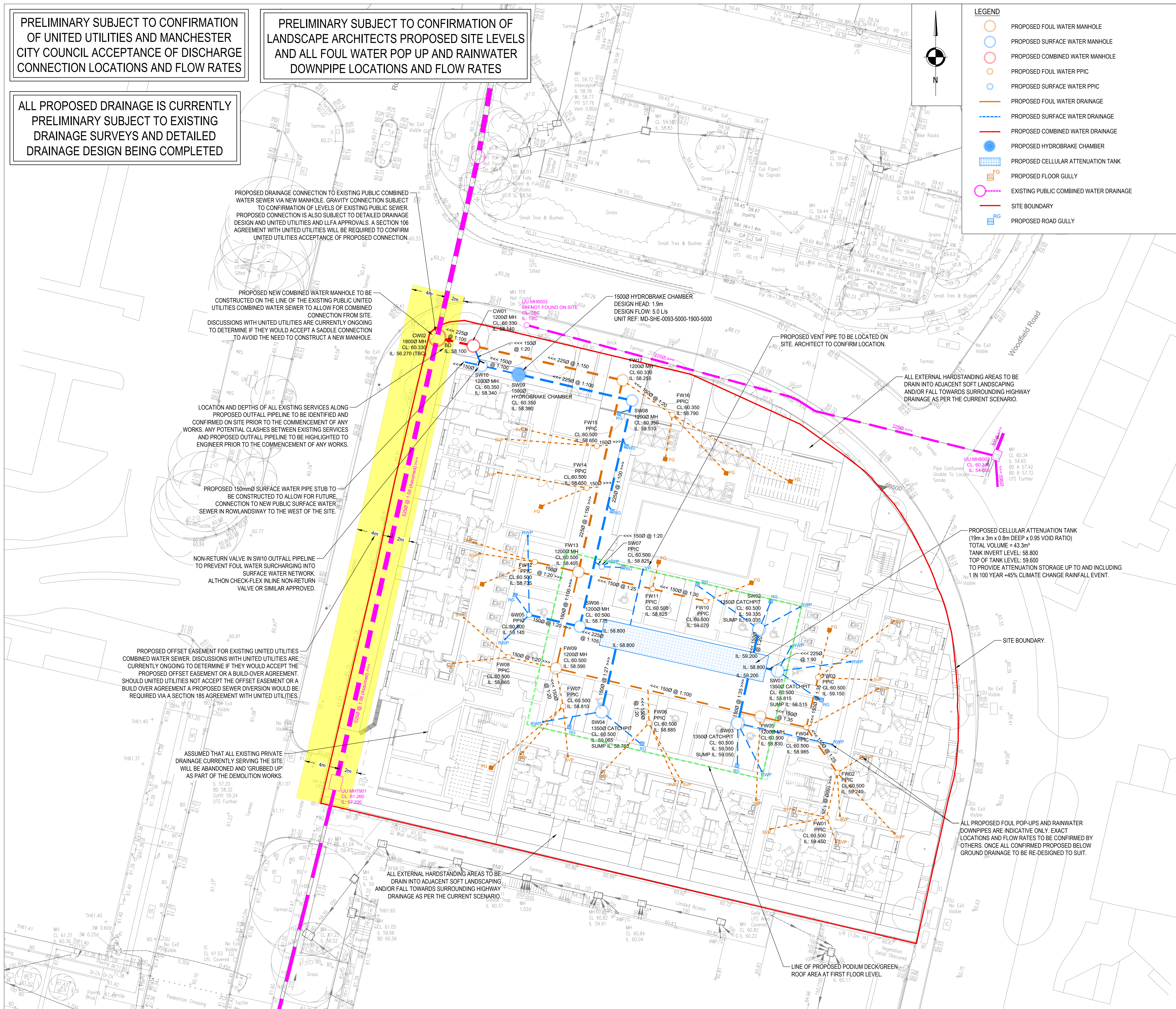


PRELIMINARY SUBJECT TO CONFIRMATION
OF UNITED UTILITIES AND MANCHESTER
CITY COUNCIL ACCEPTANCE OF DISCHARGE
CONNECTION LOCATIONS AND FLOW RATES

ALL PROPOSED DRAINAGE IS CURRENTLY
PRELIMINARY SUBJECT TO EXISTING
DRAINAGE SURVEYS AND DETAILED
DRAINAGE DESIGN BEING COMPLETED

PRELIMINARY SUBJECT TO CONFIRMATION OF
LANDSCAPE ARCHITECTS PROPOSED SITE LEVELS
AND ALL FOUL WATER POP UP AND RAINWATER
DOWNPIPE LOCATIONS AND FLOW RATES



- LEGEND
- PROPOSED FOUL WATER MANHOLE
 - PROPOSED SURFACE WATER MANHOLE
 - PROPOSED COMBINED WATER MANHOLE
 - PROPOSED FOUL WATER PPIC
 - PROPOSED SURFACE WATER PPIC
 - PROPOSED FOUL WATER DRAINAGE
 - PROPOSED SURFACE WATER DRAINAGE
 - PROPOSED COMBINED WATER DRAINAGE
 - PROPOSED HYDROBRAKE CHAMBER
 - PROPOSED CELLULAR ATTENUATION TANK
 - PROPOSED FLOOR GULLY
 - EXISTING PUBLIC COMBINED WATER DRAINAGE
 - SITE BOUNDARY
 - PROPOSED ROAD GULLY

- GENERAL NOTES
- SETTING OUT SHALL BE UNDERTAKEN USING ONLY THE INFORMATION GIVEN. DISTANCES SHOULD NOT BE SCALED FROM THIS DRAWING.
 - ALL SEWERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH DESIGN & CONSTRUCTION GUIDANCE & UNITED UTILITIES CONSTRUCTION GUIDANCE.
 - THE MINIMUM GRAVITY PIPE DIAMETER UNDER ADOPTABLE HIGHWAYS SHALL BE 150mm
 - IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL INFORMATION GIVEN WITH REGARDS TO EXISTING SERVICES AND DRAINAGE CONNECTIONS ETC. PRIOR TO COMMENCING THE WORKS. THE RATES SHALL INCLUDE FOR HAND DIG AROUND SERVICES WHERE NECESSARY. THE CONTRACTOR SHALL ADHERE TO THE CDM REGULATIONS AT ALL TIMES
 - THE OUTSIDES OF ALL SEWERS SHALL BE A MINIMUM OF 1.0m FROM KERB LINES AND THE OUTSIDE OF MANHOLES SHALL BE A MINIMUM OF 0.5m FROM KERB LINES
 - EXISTING FLOWS IN WATERCOURSES, SEWERS AND LAND DRAINS SHALL BE MAINTAINED AT ALL TIMES
 - ONLY TRAINED PERSONNEL SHALL BE PERMITTED TO ENTER CONFINED SPACES
 - ALL MATERIALS TO BEAR THE RELEVANT B.S. KITEMARK AND COMPLY FULLY WITH THE SPECIFICATIONS. ALL CONCRETE & CONCRETE PRODUCTS MUST USE SULPHATE RESISTANT CEMENT (UNLESS THE SITE INVESTIGATION REPORT PROVES THAT SULPHATE ATTACK FROM SOILS AND GROUNDWATER WILL NOT OCCUR TO WITHSTAND A CLASS
 - ALL OPENING NOTICES ETC. AS REQUIRED UNDER HIGHWAYS ACTS ETC. ARE TO BE OBTAINED PRIOR TO COMMENCEMENT OF WORKS. ALL WORKS ARE TO BE INSPECTED BY L.A., NHBC OR THE NETWORK OPERATOR AS APPLICABLE.
 - WHERE "ULTRA RIB" UPVC PIPES (OR SIMILAR APPROVED) ARE USED IN ADOPTABLE DRAINAGE THEY SHALL STILL BE HANDLED AND LAID IN ACCORDANCE WITH THE SPECIFICATION AND GUIDANCE ISSUED BY THE HIGH PERFORMANCE PIPE ASSOCIATION.
 - A CLASS S BED AND SURROUND MUST BE USED FOR SUCH PIPES. TRENCH BACKFILL IN HIGHWAYS TO WITHIN 1m OF HIGHWAY SHALL, AS DIRECTED BY THE HIGHWAY AUTHORITY BE A SUITABLE GRANULAR MATERIAL ALL IN ACCORDANCE WITH SEWERS FOR ADOPTION CL. 4.3.4.
 - S LAB LEVELS SHALL NOT BE VARIED WITHOUT REFERENCE TO THE ENGINEER FOR GUIDANCE
 - DOMESTIC DRAINAGE SHALL BE TO BUILDING REGULATIONS APPROVED DOCUMENT H. 110mm U.P.V.C. PIPES LAID TO THE FOLLOWING MINIMUM FALLS UNLESS OTHERWISE SHOWN.
- | HEAD RUN | FOUL | S.W. |
|-----------|---------|----------|
| ELSEWHERE | 1 IN 40 | 1 IN 60 |
| | 1 IN 80 | 1 IN 100 |
- ALL HIGHWAY GULLY CONNECTIONS TO BE 150mm VITRIFIED CLAY UNLESS NOTED OTHERWISE
 - ALL PRIVATE GULLY CONNECTIONS TO BE 100mm VITRIFIED CLAY UNLESS NOTED OTHERWISE
 - MINIMUM COVER TO DRAINAGE SOFFIT LEVEL & ACCESS CHAMBERS ; LANDSCAPING TRAFFICKED AREAS HIGHWAYS 0.600m 0.900m 1.200m
 - CLASS 'S' BEDDING AND SURROUND TO BE USED WHERE MINIMUM COVER IS ACHIEVED.
 - WHERE MINIMUM COVER IS NOT ACHIEVED CLASS 'Z' BEDDING AND SURROUND (CONCRETE ENCASMENT) IS TO BE USED.
 - FOUNDATIONS WITHIN CLOSE PROXIMITY TO PROPOSED DRAINAGE WILL NEED TO BE AT THE SAME DEPTH AS DRAINAGE TO AVOID THE POTENTIAL FOR UNDERMINING.
 - TOP OF FOUNDATIONS ARE TO BE A MIN 750mm FROM FINISHED EXTERNAL LEVELS.
 - ALL SURFACE / FOUL WATER CONNECTIONS ARE TO HAVE RODDABLE ACCESS FROM ABOVE GROUND
 - ALL POP-UP AND RWP SETTING OUT IS TO BE PROVIDED BY THE ARCHITECT
 - FINAL POP UP LOCATIONS SUBJECT TO ARCHITECT / M&E CO-ORDINATION

P02	25.11.2025	PRELIMINARY ISSUE - UPDATED TO SUIT DESIGN TEAM COMMENTS	JC	JRS	KOB
P01	07.11.2025	PRELIMINARY ISSUE	JC	JRS	KOB
REV	DATE	DESCRIPTION	BY	CHK	APP

DRAWING STATUS:	PRELIMINARY
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CLIENT:	MUSE PLACES
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ARCHITECT:	LEVITT BERNSTEIN
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PROJECT:	ALPHA HOUSE, WYTHENSHAW
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TITLE:	BELOW GROUND DRAINAGE OUTLINE DRAINAGE STRATEGY
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STATUS:	PROJECT No:	PROJECT	ORIGIN	FUNCT.	SPECIAL	FORM	DISC.	DRAWING No:	REV:
S2	224-126	18703 - AJP- XX - ZZ - D - C - 000900	P02						

SCALE @ A1:	DESIGNED:	DRAWN:	CHECKED:	APPROVED:	DATE:
1:200	JC	JC	JRS	KOB	NOV 2025