

- DRAINAGE NOTES
- 1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS, ENGINEERS DRAWINGS AND SPECIFICATIONS.
- 2. DO NOT SCALE THIS DRAWING. ANY AMBIGUITIES, OMISSIONS AND ERRORS ON THE DRAWINGS SHALL BE BROUGHT TO THE ENGINEERS ATTENTION IMMEDIATELY. ALL DIMENSIONS MUST BE CHECKED AND VERIFIED ONSITE.
- ALL DRAINAGE WORKS TO BE IN ACCORDANCE WITH THE CIVIL ENGINEERING SPECIFICATION FOR THE WATER INDUSTRY (CSWI) AS INCLUDED IN SEWERS FOR ADOPTION THE EDITION, THE REQUIREMENTS OF APPROVED DOCUMENT H (2015 EDITION), BUILDING REGULATIONS 200 AND THE ENTLAS PROVIDED ON THE CONTRACT PROVIDED DOCUMENT H (2015)
- 4. THE CONTRACTOR MUST SURVEY THE RETAINED DRAINAGE AND REPORT THE LINE, LEVEL AND CONDITION OF THE EXISTING DRAINAGE TO THE ENGINEER. WE WOULD RECOMMEND THAT THE EXISTING DRAINAGE TO BE SURVEYED IS CLEANEED BEFORE UNDERTAINING THESE WORKS.
- 5. ANY REDUNDANT MANHOLES ARE TO BE BROKEN OUT AND BACKFILLED WITH A APPROVED COMPACTED GRANULAR MATERIA REDUNDANT PIPES ARE TO BE FILLED WITH A 10:1 PFA/CEMENT MIX OR BROKEN OUT AND BACKFILLED WITH A APPROVED COMPACTED GRANULAR MATERIAL
- ALL FOULAND SURFACE WATER DRAINS UP TO AND INCLUDING 300MM DIAMETER ARE TO BE VITRIFIED CLAY SUCH AS HERWORTH SUFERSLEVESUPERSEL OR SIMILAR APPROVED (ES EN 36-1), LEI PIPES GREATER THAN 300MM DIAMETER TO BE CONCRETE CLASS 120 (BS EN 165202), ALL CONCIRCE TUMHICLES TO BE IN ACCORDANCE WITH BS EN 1917.
- AS AN ALTERNATIVE (SUBJECT TO THE CLIENTS APPROVAL) THE CONTRACTOR MAY USE STRUCTURAL WALLED PIPES (WISA 4:35-01 & BS EN 13476) SUCH AS;
- POLYSEWER POLYPIPE BUILDING PRODUCTS SIZE 150mm TO 300mm
  QUANTUM- MARLEY SIZE 150mm TO 300mm
  ULTRARIB UPONOR SIZE 150mm TO 300mm
  ULTRARIB WAVIN SIZE 150mm TO 300mm
  WEHOLTE ASSET INTERNATIONAL SIZE 450mm TO 3000mm

- PIPES LAID WITHIN VEHICLE TRAFFICKED AREAS WITH LESS THAN 900mm OF COVER SHALL BE SURROUNDED IN CLASS Z BEDDING, PIPES LESS THAN 300mm BELOW THE UNDERSIDE OF A GROUND FLOOR SLAB SHALL BE SURROUNDED IN CLASS Z BEDDING, WHERE CLASS Z BEDDING IS USED AS A SURROUND A COMPRESIBLE MATERIAL MUST BE PLACED AT EVERY PIPE JOINT. ALL OTHER PIPES ARE TO BE LAID IN A CLASS S BEDDING.
- 9. ALL DRAINAGE MUST BE PROTECTED DURING CONSTRUCTION WHERE INTERMEDIATE COVER IS LESS THAN 900mm
- 10. WHERE FOUL AND SURFACE DRAINS/SEWERS CROSS WITHIN 100mm OF EACH OTHER CONCRETE PROTECTION (CLASS Z BEDDING) MANY BE REQUIRED TO PREVENT ANY POTENTIAL CONTAMINATION.
- 11. ALL COVER LEVELS ARE APPROXIMATE ONLY. ALL MANHOLE COVERS TO BE SET AT THE PROPOSED FINISHED PAVEMENT OR FLOOR LEVEL REFER TO THE ARCHITECTS PROPOSED LEVELS DRAWING FOR LEVEL CONFIRMATION.
- FOR TYPICAL MANHOLE CONSTRUCTION DETAILS, PIPE BEDDING/TRENCH DETAILS AND OTHER ASSOCIATED DRAINAGE DETAILS REFER TO SGI TYPICAL DETAILS DRAWING.
- ALL FOUL AND SURFACE WATER CONNECTIONS TO BE 100MM DIAMETER UNLESS STATED ALL EXTERNAL GULLY CONNECTION AND CHANNEL DRAN SUMPIGULLY CONNECTIONS TO BE 150mm DIAMETER UNLESS STATED ALL GULLY AND CHANNEL DRAN OUTLETS TO BE TRAFFED AND RODOBALEL ALL INTERNAL GULLES AND CHANNEL DRANS TO BE SPECIFIED BY OTHERS.
- 14. CHANNELS DRAINS TO BE FITTED WITH A HEALGUARD CAST IRON GRATING. GRATINGS TO BE TO LOAD CLASS D400 SPECIFICATION UNLESS OTHERWISE AGREED. LINEAR CHANNELS TO HAVE A 200mm MINIMUM CONCRETE BED AND HAUNCH.
- 15. ALL FOUL STACKS AND RWPS TO HAVE LOW LEVEL RODDING ACCESS PLATES UNLESS AN ALTERNATIVE MEANS OF ACCESS IS AGREED. ACCESS POINT SIZE TO BE IN ACCORDANCE WITH DOCUMENT H AND SITED ABOVE ANY CONNECTED GROUND FLOOR APPLIANCE SPLIL LEVEL.
- ALL CONNECTIONS PASSING THROUGH FOUNDATION BASES AND/OR EDGE BEAMS TO BE WITHIN SEALED SLEEVES. ALTERNATIVELY CONNECTIONS MAY BE CAST-IN WITH FLEXIBLE JOINTS NOT GREATER THAN 150mm FROM FACE OF THE CONCRETE.
- 17. ALL MANHOLE COVERS LOCATED WITHIN THE ROAD AND CAR PARKING AREAS TO BE D400 CLASS. COVERS WITHIN HARD AND SOFT LANDSCAPED AREAS WITH PEDESTRIAN TRAFFIC ONLY TO BE B125 CLASS. COVERS LOCATED WITHIN BLOCKSLABE PAVING AREAS TO BE RECESSED TO SUIT THE PROPOSED PAVING AND OF THE APPROPRIATE GRADE ALL INTERNAL COVERS TO BE RECESSED WITH DOUBLE SEALED BOLT DOWN COVERS SULVA AS HOWE GREEN \$000 SENES OR SMILAR APPROVED. 18. CHANNELS WITHIN TYPE 13. SUMANCES MIST UP BE RE-FCORMEC OLVANVER SECTIONS FOR PIPES UP TO AND INCLUDING 300mm DIAMETER. CHANNELS TO BE SET AT THE APPROPRIATE INCOMING AND OUTGOING PIPE GRADIENTS.
- 19. ALL MANHOLES CONNECTIONS TO BE FORMED AT SOFFIT TO SOFFIT UNLESS OTHERWISE STATED. ALL BRANCH CONNECTIONS TO BE MADE WITH SWEPT BENDS IN THE DIRECTION OF FLOW IN THE MAIN SEWER.
- 20. INTERNAL DRAINAGE CONNECTIONS ARE PROVIDED TO THE PENETRATION POSITIONS SHOWN ON AND COORDINATED BY THE ARCHITECTIM&E CONSULTANT.
- 21. EXTERNAL LINEAR CHANNEL DRAINS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE MANUFACTURERS REQUIREMENTS AND SHALL DISCHARGE VIA TRAPPED RODDABLE GULLY UNITS UNLESS ADVISED OTHERWISE.
- 22. THE TYPE AND SIZE OF THE SEPARATOR IS SPECIFIED ON THIS DRAWING AND SHALL BE A CLASS 1 TYPE. IT SHALL BE INSTALLED IN COMPLETE ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS AND VETED VIA 78mm0 PIPE WORK. THE INTERCEPTOR REQUIRES POWER FOR THE HIGH LEVEL OL ALARM AND THE ARRANGEMENT SHALL BE INTEROLULT SAFE AND DEVELOSION PROOF. THE CONTRACTOR SHALL PROVIDE THE REQUIRED DUCTION AND TO MENTAL PROVIDENCIALLY SAFE AND POSITION TO CENTER WITH AND/O AND VISUAL MONTORING INITIAL IN ACCORDANCE WITH PSSYT 2003 AT 2011
- 23. ALL RWP AND SVP POSITIONS ASSUMED, TO BE CONFIRMED
- 24. COVER LEVELS BASED ON ARCHITECT'S SITE LEVELS

F	RESIDUAL RISKS							
А	AMENDED SITE BOUNDARY	27	2	07/12/23				
REL	DESCRIPTION	DRAWN	APPROVED	DATE				

## PLANNING

FLOOD FLOW

## FLOOD FLOW LTD

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Client

SUSAN LOPPY

Project

PROPOSED DEVELOPMENT AT ARROCHAR, PRESCOT ROAD MELLING

Title

## INDICATIVE DRAINAGE LAYOUT

Drawn	AJ	Checked JJ		J	Drawing number	
Date	01/08/23	Date	01/08	3/23	23113-001	Δ
Scale	1:200			A1	20110 001	~