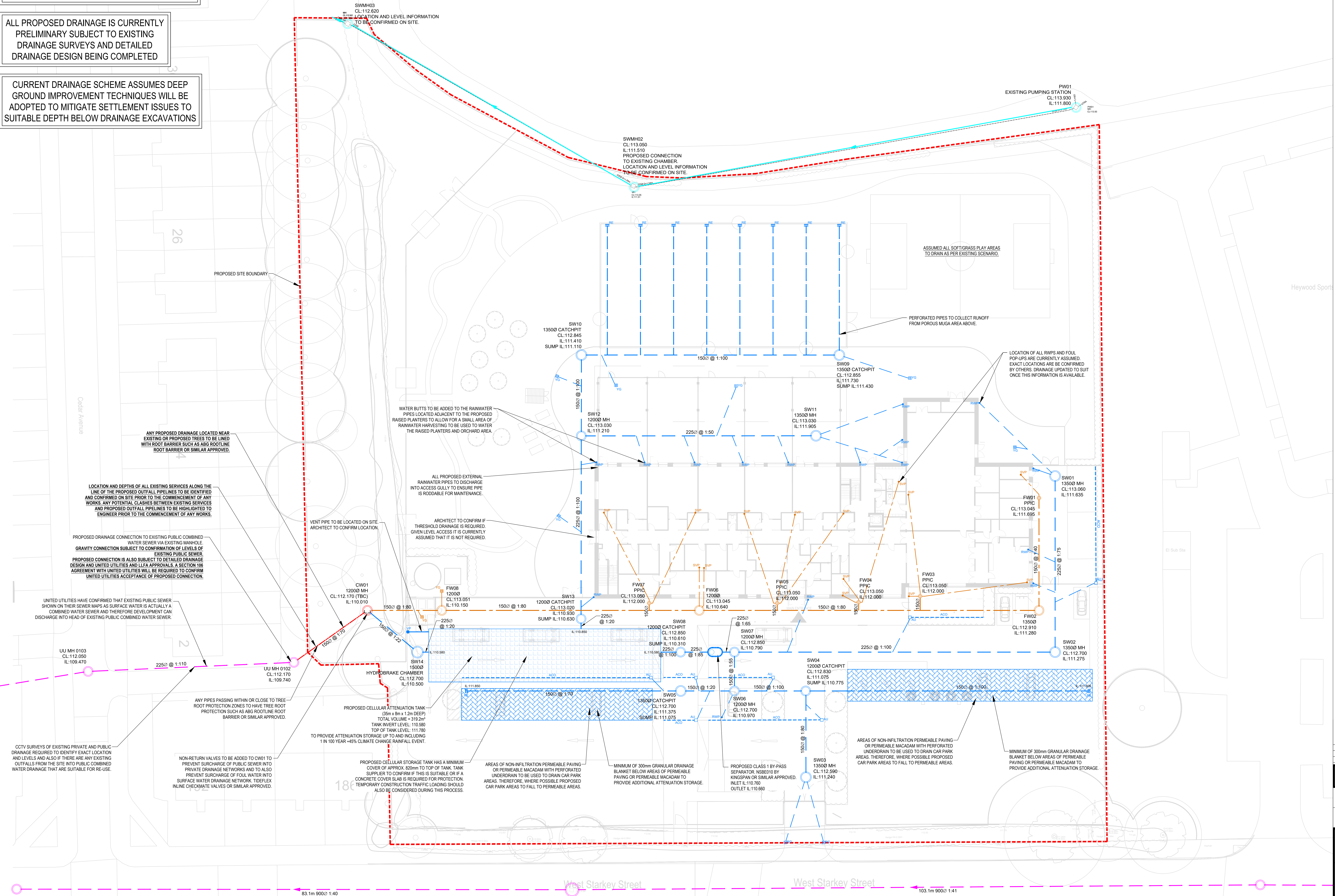


PRELIMINARY SUBJECT TO CONFIRMATION OF UNITED UTILITIES AND ROCHDALE BOROUGH COUNCIL ACCEPTANCE OF DISCHARGE CONNECTION LOCATIONS AND FLOW RATES

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

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

CURRENT DRAINAGE SCHEME ASSUMES DEEP GROUND IMPROVEMENT TECHNIQUES WILL BE ADOPTED TO MITIGATE SETTLEMENT ISSUES TO SUITABLE DEPTH BELOW DRAINAGE EXCAVATIONS



- ### 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 SEWERS FOR ADOPTION 8TH EDITION AND UNITED UTILITIES DETAILS & GUIDELINES
 - 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 COM 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 RIF-UPVC PIPES (OR SIMILAR APPROVED) ARE USED IN ADOPTABLE DRAINAGE THEY SHALL STILL BE HANDLED AND LAD IN ACCORDANCE WITH THE SPECIFICATION AND GUIDANCE ISSUED BY THE HIGH PERFORMANCE PIPE ASSOCIATION
 - ALL CLASS 5 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
 - SUB SLAB LEVELS SHALL NOT BE VARIED WITHOUT REFERENCE TO THE ENGINEER FOR GUIDANCE
 - ALL GULLY CONNECTIONS TO BE 150mm VITRIFIED CLAY UNLESS NOTED OTHERWISE
 - THE LOCATION AND ORIENTATION OF ALL RECESSED COVERS IN BLOCK PAVING AREAS TO BE COORDINATED WITH BLOCK PAVING PATTERN
 - SLOW REST BENDS TO BE USED IN ALL LOCATIONS MADE UP FROM 2No. 45 DEG BENDS (600mm)
 - MANHOLE POSITIONS AND ACCESS COVERS TO BE ACCURATELY SET-OUT BY LANDSCAPE ARCHITECT TO SUIT EXTERNAL FINISHES
 - ALL DRAINS CAST THROUGH FOUNDATIONS TO HAVE ROCKER PIPES ON BOTH SIDES OF FOUNDATION
 - ALL POP UP POSITIONS TO BE CONFIRMED SET OUT DIMENSIONS TO BE AGREED & PROVIDED BY OTHERS
 - ALL DISCHARGE RATES TO BE CONFIRMED BY M&E DESIGNER
 - ALL SURFACE WATER COLLECTION FEATURES TO BE CONFIRMED BY THE LANDSCAPE ARCHITECT
 - STORAGE HAS BEEN PROVIDED IN A CELLULAR STORAGE TANK AND UP-SIZED MANHOLES AND PIPES
 - EXISTING SEWER DEPTHS TO BE CONFIRMED PRIOR TO CONSTRUCTION OF ANY DRAINAGE WORKS
 - LANDSCAPE ARCHITECT TO CONFIRM GULLY AND DRAINAGE CHANNEL LOCATIONS TO LANDSCAPED AREAS
 - FOUL NETWORK TO BE CONFIRMED FOLLOWING CONFIRMATION OF BRANCH CONNECTION POINTS FROM BUILDING M&E DESIGNER

- ### DRAINAGE NOTES
- ALL SURFACE / FOUL WATER CONNECTIONS ARE TO HAVE ROADABLE 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
 - ROAD DRAINAGE SUBJECT TO CHANGE FOLLOWING CONFIRMATION OF PROPOSED ROAD LEVELS AND FALLS

- ### 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 PERFORATED PIPES WITH RODDING EYE
 - PROPOSED LINEAR DRAINAGE (ACO) CHANNEL WITH ACCESS UNIT
 - PROPOSED CELLULAR ATTENUATION TANK
 - PROPOSED PERMEABLE PAVING/POROUS TARMACADAM
 - VENT PIPE
 - PROPOSED ROAD GULLY
 - PROPOSED YARD GULLY
 - EXISTING PRIVATE SURFACE WATER DRAINAGE TO REMAIN
 - EXISTING PUBLIC COMBINED WATER DRAINAGE
 - SITE BOUNDARY

NO	10.08.2023	PRELIMINARY ISSUE - UPDATED TO SUIT REVISED SURFACE WATER OUTFALL LOCATION	JAR	JRS	PS
PS1	13.08.2023	PRELIMINARY ISSUE	JAR	JRS	PS
REV	DATE	DESCRIPTION	BY	CHK	APP

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ARCHITECT: **ELLIS WILLIAMS ARCHITECTS**

PROJECT: **ROCHDALE SEND HEYWOOD**

TITLE: **BELOW GROUND DRAINAGE OUTLINE DRAINAGE STRATEGY**

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