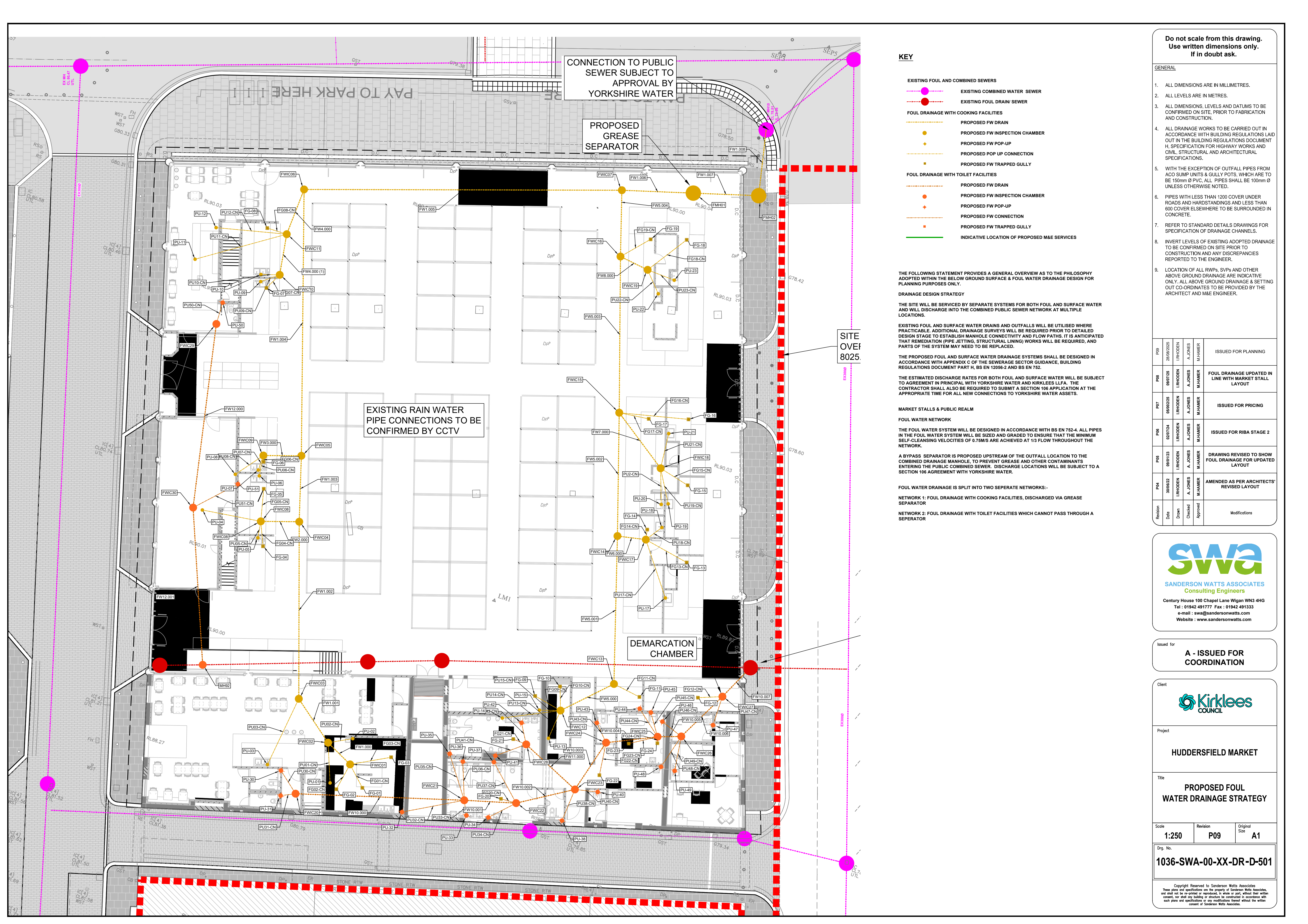




CONNECTION TO PUBLIC
SEWER SUBJECT TO
APPROVAL BY
YORKSHIRE WATER

PROPOSED
GREASE
SEPARATOR

EXISTING RAIN WATER
PIPE CONNECTIONS TO BE
CONFIRMED BY CCTV

DEMARCATION
CHAMBER

SITE OVER
8025

KEY

- EXISTING FOUL AND COMBINED SEWERS
 - EXISTING COMBINED WATER SEWER
 - EXISTING FOUL DRAIN/ SEWER
- FOUL DRAINAGE WITH COOKING FACILITIES
 - PROPOSED FW DRAIN
 - PROPOSED FW INSPECTION CHAMBER
 - PROPOSED FW POP-UP
 - PROPOSED POP UP CONNECTION
 - PROPOSED FW TRAPPED GULLY
- FOUL DRAINAGE WITH TOILET FACILITIES
 - PROPOSED FW DRAIN
 - PROPOSED FW INSPECTION CHAMBER
 - PROPOSED FW POP-UP
 - PROPOSED FW CONNECTION
 - PROPOSED FW TRAPPED GULLY
- INDICATIVE LOCATION OF PROPOSED M&E SERVICES

THE FOLLOWING STATEMENT PROVIDES A GENERAL OVERVIEW AS TO THE PHILOSOPHY ADOPTED WITHIN THE BELOW GROUND SURFACE & FOUL WATER DRAINAGE DESIGN FOR PLANNING PURPOSES ONLY.

DRAINAGE DESIGN STRATEGY
THE SITE WILL BE SERVICED BY SEPARATE SYSTEMS FOR BOTH FOUL AND SURFACE WATER AND WILL DISCHARGE INTO THE COMBINED PUBLIC SEWER NETWORK AT MULTIPLE LOCATIONS.

EXISTING FOUL AND SURFACE WATER DRAINS AND OUTFALLS WILL BE UTILISED WHERE PRACTICABLE. ADDITIONAL DRAINAGE SURVEYS WILL BE REQUIRED PRIOR TO DETAILED DESIGN STAGE TO ESTABLISH MANHOLE CONNECTIVITY AND FLOW PATHS. IT IS ANTICIPATED THAT REMEDIATION (PIPE JETTING, STRUCTURAL LINING) WORKS WILL BE REQUIRED, AND PARTS OF THE SYSTEM MAY NEED TO BE REPLACED.

THE PROPOSED FOUL AND SURFACE WATER DRAINAGE SYSTEMS SHALL BE DESIGNED IN ACCORDANCE WITH APPENDIX C OF THE SEWERAGE SECTOR GUIDANCE, BUILDING REGULATIONS DOCUMENT PART H, BS EN 12056-2 AND BS EN 752.

THE ESTIMATED DISCHARGE RATES FOR BOTH FOUL AND SURFACE WATER WILL BE SUBJECT TO AGREEMENT IN PRINCIPLE WITH YORKSHIRE WATER AND KIRKLEES LLFA. THE CONTRACTOR SHALL ALSO BE REQUIRED TO SUBMIT A SECTION 106 APPLICATION AT THE APPROPRIATE TIME FOR ALL NEW CONNECTIONS TO YORKSHIRE WATER ASSETS.

MARKET STALLS & PUBLIC REALM

FOUL WATER NETWORK

THE FOUL WATER SYSTEM WILL BE DESIGNED IN ACCORDANCE WITH BS EN 752-4. ALL PIPES IN THE FOUL WATER SYSTEM WILL BE SIZED AND GRADED TO ENSURE THAT THE MINIMUM SELF-CLEANING VELOCITIES OF 0.75M/S ARE ACHIEVED AT 1/3 FLOW THROUGHOUT THE NETWORK.

A BYPASS SEPARATOR IS PROPOSED UPSTREAM OF THE OUTFALL LOCATION TO THE COMBINED DRAINAGE MANHOLE, TO PREVENT GREASE AND OTHER CONTAMINANTS ENTERING THE PUBLIC COMBINED SEWER. DISCHARGE LOCATIONS WILL BE SUBJECT TO A SECTION 106 AGREEMENT WITH YORKSHIRE WATER.

FOUL WATER DRAINAGE IS SPLIT INTO TWO SEPARATE NETWORKS:-

NETWORK 1: FOUL DRAINAGE WITH COOKING FACILITIES, DISCHARGED VIA GREASE SEPARATOR

NETWORK 2: FOUL DRAINAGE WITH TOILET FACILITIES WHICH CANNOT PASS THROUGH A SEPARATOR

Do not scale from this drawing.
Use written dimensions only.
If in doubt ask.

GENERAL

- ALL DIMENSIONS ARE IN MILLIMETRES.
- ALL LEVELS ARE IN METRES.
- ALL DIMENSIONS, LEVELS AND DATUMS TO BE CONFIRMED ON SITE, PRIOR TO FABRICATION AND CONSTRUCTION.
- ALL DRAINAGE WORKS TO BE CARRIED OUT IN ACCORDANCE WITH BUILDING REGULATIONS LAID OUT IN THE BUILDING REGULATIONS DOCUMENT H, SPECIFICATION FOR HIGHWAY WORKS AND CIVIL, STRUCTURAL AND ARCHITECTURAL SPECIFICATIONS.
- WITH THE EXCEPTION OF OUTFALL PIPES FROM ACO SUMP UNITS & GULLY POTS, WHICH ARE TO BE 150mm Ø PVC, ALL PIPES SHALL BE 100mm Ø UNLESS OTHERWISE NOTED.
- PIPES WITH LESS THAN 1200 COVER UNDER ROADS AND HARDSTANDINGS AND LESS THAN 600 COVER ELSEWHERE TO BE SURROUNDED IN CONCRETE.
- REFER TO STANDARD DETAILS DRAWINGS FOR SPECIFICATION OF DRAINAGE CHANNELS.
- INVERT LEVELS OF EXISTING ADOPTED DRAINAGE TO BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION AND ANY DISCREPANCIES REPORTED TO THE ENGINEER.
- LOCATION OF ALL RWPS, SVPS AND OTHER ABOVE GROUND DRAINAGE ARE INDICATIVE ONLY. ALL ABOVE GROUND DRAINAGE & SETTING OUT CO-ORDINATES TO BE PROVIDED BY THE ARCHITECT AND M&E ENGINEER.

P09	28/08/2025	I.RHODEN	A.JONES	M.HAMER	ISSUED FOR PLANNING
P08	08/07/25	I.RHODEN	A.JONES	M.HAMER	FOUL DRAINAGE UPDATED IN LINE WITH MARKET STALL LAYOUT
P07	05/02/25	I.RHODEN	A.JONES	M.HAMER	ISSUED FOR PRICING
P06	02/07/24	I.RHODEN	A.JONES	M.HAMER	ISSUED FOR RIBA STAGE 2
P05	08/01/23	I.RHODEN	A.JONES	M.HAMER	DRAWING REVISED TO SHOW FOUL DRAINAGE FOR UPDATED LAYOUT
P04	30/06/22	I.RHODEN	A.JONES	M.HAMER	AMENDED AS PER ARCHITECTS' REVISED LAYOUT
Revision	Date	Drawn	Checked	Approved	Modifications



SANDERSON WATTS ASSOCIATES
Consulting Engineers

Century House 100 Chapel Lane Wigan WN3 4HG
Tel : 01942 491777 Fax : 01942 491333
e-mail : swa@sandersonwatts.com
Website : www.sandersonwatts.com

Issued for
A - ISSUED FOR COORDINATION



Project
HUDDERSFIELD MARKET

Title
PROPOSED FOUL WATER DRAINAGE STRATEGY

Scale
1:250

Revision
P09

Original Size
A1

Drg. No.
1036-SWA-00-XX-DR-D-501

Copyright Reserved to Sanderson Watts Associates
These plans and specifications are the property of Sanderson Watts Associates, and shall not be re-printed or reproduced, in whole or part, without their written consent, nor shall any building or structure be constructed in accordance with such plans and specifications or any modifications thereof without the written consent of Sanderson Watts Associates.