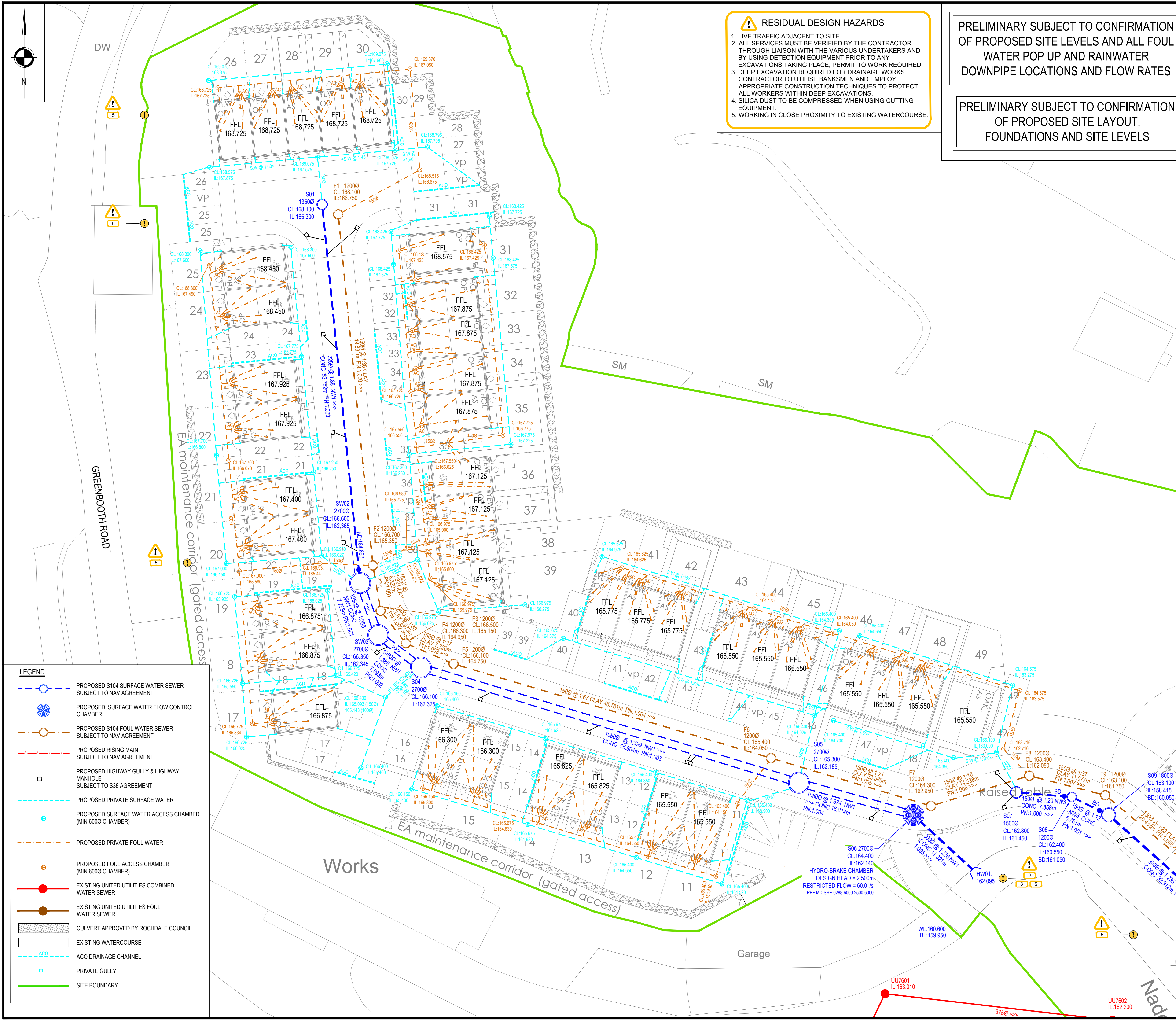




LEGEND

PROPOSED S104 SURFACE WATER SEWER
SUBJECT TO NAV AGREEMENT

PROPOSED SURFACE WATER FLOW CONTROL
CHAMBER

PROPOSED S104 FOUL WATER SEWER
SUBJECT TO NAV AGREEMENT

PROPOSED RISING MAIN
SUBJECT TO NAV AGREEMENT

PROPOSED HIGHWAY GULLY & HIGHWAY
MANHOLE
SUBJECT TO S38 AGREEMENT

PROPOSED PRIVATE SURFACE WATER

PROPOSED SURFACE WATER ACCESS CHAMBER
(MIN 6000 CHAMBER)

PROPOSED PRIVATE FOUL WATER

PROPOSED FOUL ACCESS CHAMBER
(MIN 6000 CHAMBER)

EXISTING UNITED UTILITIES COMBINED
WATER SEWER

EXISTING UNITED UTILITIES FOUL
WATER SEWER

CULVERT APPROVED BY ROCSDALE COUNCIL

EXISTING WATERCOURSE

ACO DRAINAGE CHANNEL

PRIVATE GULLY

SITE BOUNDARY

RESIDUAL DESIGN HAZARDS

1. LIVE TRAFFIC ADJACENT TO SITE.

2. ALL SERVICES MUST BE VERIFIED BY THE CONTRACTOR THROUGH LIAISON WITH THE VARIOUS UNDERTAKERS AND BY USING DETECTION EQUIPMENT PRIOR TO ANY EXCAVATIONS TAKING PLACE. PERMIT TO WORK REQUIRED.

3. DEEP EXCAVATION REQUIRED FOR DRAINAGE WORKS. CONTRACTOR TO UTILISE BANKSMEN AND EMPLOY APPROPRIATE CONSTRUCTION TECHNIQUES TO PROTECT ALL WORKERS WITHIN DEEP EXCAVATIONS.

4. SILICA DUST TO BE COMPRESSED WHEN USING CUTTING EQUIPMENT.

5. WORKING IN CLOSE PROXIMITY TO EXISTING WATERCOURSE.

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

PRELIMINARY SUBJECT TO CONFIRMATION
OF PROPOSED SITE LAYOUT,
FOUNDATIONS AND SITE LEVELS

GENERAL NOTES

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT ENGINEERS, ARCHITECTS AND SPECIALISTS DRAWINGS AND SPECIFICATIONS.

2. ALL RELEVANT DIMENSIONS TO BE OBTAINED/CHECKED AGAINST ARCHITECTS DRAWINGS AND BY SITE MEASUREMENT PRIOR TO THE COMMENCEMENT OF WORKS OR ORDERING OF MATERIALS. DISCREPANCIES BETWEEN THE DRAWINGS AND SITE CONDITIONS TO BE NOTIFIED TO THE ENGINEER.

3. DO NOT SCALE FROM THIS DRAWING.

4. THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION OF ALL UNDERGROUND SERVICES THAT MAY EXIST AND TO DIVERT THEM IF NECESSARY PRIOR TO THE COMMENCEMENT OF THE WORKS.

5. MATERIALS OR WORKMANSHIP NOT COMPLYING WITH THE ENGINEERS DRAWINGS AND SPECIFICATION SHALL BE DEEMED UNACCEPTABLE AND REMOVED FROM SITE AND REPLACED WITH WORK CORRECTLY MANUFACTURED, DELIVERED AND ERECTED.

6. ALL EXISTING INVERT LEVELS TO BE CHECKED BY THE CONTRACTOR AT THE START OF WORKS AND ANY OTHER DISCREPANCIES NOTIFIED TO THE ENGINEER. ALL LEVELS ARE BASED ON TOPOGRAPHICAL SURVEY INFORMATION PROVIDED BY OTHERS.

7. 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 YORKSHIRE WATER AS APPLICABLE.

8. 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 3 CONDITION).

9. WHERE "ULTRA RIB" UPVC PIPES (OR SIMILAR APPROVED) ARE USED IN ADAPTABLE 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.

10. TRENCH BACKFILL IN HIGHWAYS / CAR PARKS TO WITHIN 1M OF HIGHWAY SHALL BE A SUITABLE GRANULAR MATERIAL ALL IN ACCORDANCE WITH SEWERS FOR ADOPTION CL 3.3.4. BACKFILL MATERIAL IN OTHER AREAS SHALL BE SELECTED EXCAVATED MATERIAL FREE FROM STONES LARGER THAN 40mm, LUMPS OF CLAY OVER 100mm, TIMBER, FROZEN MATERIAL OR VEGETABLE MATTER.

11. UPVC PIPES AND FITTINGS SHALL COMPLY WITH WIS 4-35-01. CLAY PIPES AND FITTINGS SHALL BE EXTRA STRENGTH TO BSEN 295 AND BS 85. CONCRETE PIPES AND FITTINGS SHALL COMPLY WITH BS 5911. PIPES SHALL BE CLASS H.

12. A CLASS S BED MUST BE PROVIDED TO UPVC PIPES, A CLASS B BED MAY BE USED FOR V.C. AND CONCRETE PIPES.

13. BACKFILL TO DRAINAGE TRENCHES ABOVE PIPE BEDDING AND SURROUND WITHIN ROAD AND CAR PARK AREAS TO BE GRANULAR FILL COMPLYING WITH CLASS 6F2 OR DOT TYPE 1 OR QUARRY SCALPING GRADED FROM 75mm DOWN.

14. A CONCRETE SURROUND IS NOT NORMALLY REQUIRED TO MANHOLES UNLESS INSTALLED IN AREAS OF UNSTABLE GROUND. UNDER CONDITIONS OF FLOATATION OR WHERE SUBJECTED TO EXCEPTIONAL OR ECCENTRIC LOADS, IN WHICH CASE A 150mm SURROUND OF AT LEAST 20N/mm2 CONCRETE SHOULD BE PROVIDED. ANY JOINTS SHOULD BE STAGGERED WITH THE PRECAST CONCRETE JOINTS.

15. DOUBLE STEPS SHALL BE PLASTIC ENCAPSULATED CARBON TO BS EN 1247-2 MANHOLE STEPS. STEP IRONS AT 300c/c's. HORIZONTALLY & VERTICALLY MAY BE USED AS AN ALTERNATIVE TO DOUBLE STEPS.

16. ALL WORK TO BE IN ACCORDANCE WITH "SEWERS FOR ADOPTION SEVENTH EDITION" AND UNITED UTILITIES STANDARD CONSTRUCTION DETAILS.

17. TOP OF FOUNDATIONS ARE TO BE A MIN 450mm FROM FINISHED EXTERNAL LEVELS.

18. FOUNDATIONS WITHIN CLOSE PROXIMITY TO PROPOSED DRAINAGE WILL NEED TO BE AT THE SAME DEPTH AS DRAINAGE TO AVOID THE POTENTIAL FOR UNDERMINING.

DRAINAGE NOTES

FOUL AND SURFACE WATER CONNECTIONS ARE TO BE CONFIRMED

ALL POP-UP SETTING OUT IS TO BE PROVIDED BY THE ARCHITECT

ALL SURFACE / FOUL WATER CONNECTIONS ARE TO HAVE RODDABLE ACCESS FROM ABOVE GROUND

ANY 6000 ACCESS CHAMBERS GREATER THAN 1.2m DEEP WILL REQUIRE A REDUCED ACCESS SHAFT

BACK INLET GULLY TO BE TRAPPED

FLOW RATE AND POINT OF CONNECTION
ALL IN LINE WITH TOWNSEND WATER
ENGINEERING FRA REPORT FD111

P05	22/04/2024	DRAINAGE CHANNELS UPDATED TO ACO CHANNELS	CLB	JP	KOB
P04	09/04/2024	PLOT DRAINAGE ADDED	MG	JP	KOB
P03	12/03/2024	S06 H/B REF UPDATED	JP	KOB	KOB
P02	07/12/2023	UPDATED TO LATEST LAYOUT	JP	KOB	KOB
P01	09/08/2023	PRELIMINARY ISSUE	JP	KOB	KOB
REV	DATE	DESCRIPTION	BY	CHK	APP

DRAWING STATUS:

PRELIMINARY

CLIENT:

STONEBOND

ARCHITECT:

STONEBOND

PROJECT:

EDENFIELD ROAD
NORDEN
ROCHDALE

TITLE:

DRAINAGE LAYOUT
SHEET 1

STATUS:	PROJECT No:	PROJECT	ORIGINATOR	VOL/SYS	LEVEL	TYPE	ROLE	DRAWING No:	REV:
S2	223-100	EDE	-	AJP	-	XX-00-DR	-	C-0901	P05

SCALE @ A1:

1:200

DESIGNED:

JP

DRAWN:

JP

CHECKED:

KOB

APPROVED:

KOB

DATE:

AUG 2023

AJP consulting engineers

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