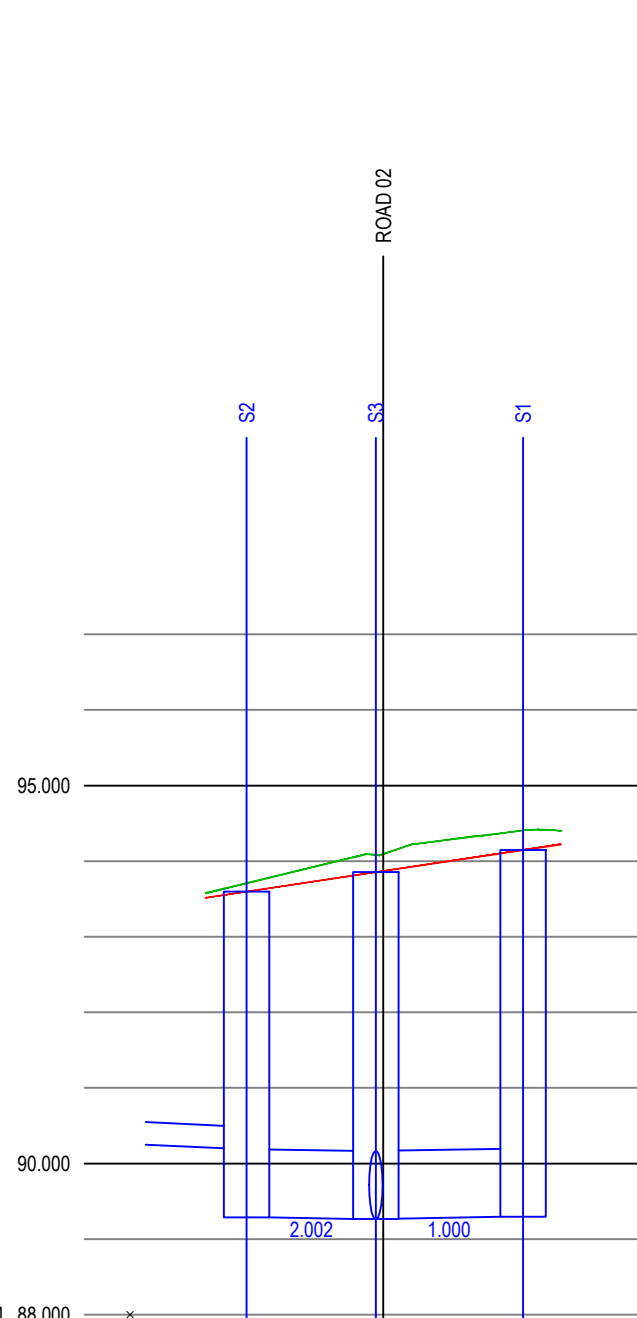
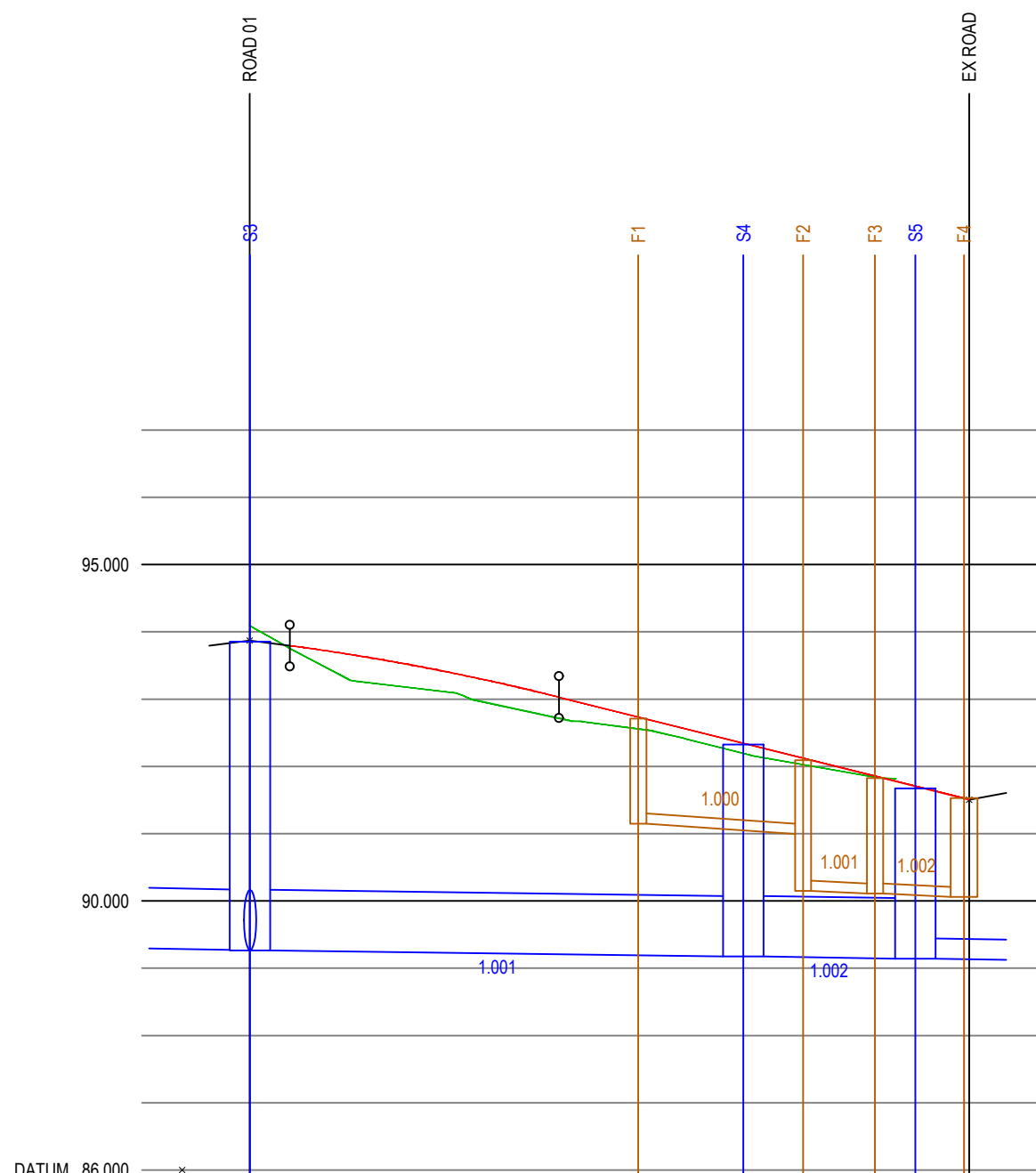




ROAD 01

CHAINAGE	0.000	2.708	10.000	11.224	20.000	23.000
EXISTING GROUND LEVEL	93.578		94.080		94.380	94.397
ALIGNMENT LEVEL	93.517		93.817		94.117	94.222
VERTICAL ALIGNMENT	G= 3.000% 1: 33.3					
HORIZONTAL ALIGNMENT						
LEFT HAND CHANNEL	93.445	93.592	93.742	93.892	94.042	94.144
RIGHT HAND CHANNEL	93.445	93.592	93.742	93.892	94.042	94.144
STORMWATER COVER LEVEL	CL 93.597	IL 89.287	CL 88.854	IL 89.271	CL 88.235	
STORMWATER DETAILS		Pipe 2.002 Dia 900 Circular CLAY 1 in 407 8.546	Pipe 1.000 Dia 900 Circular CLAY 1 in 406 9.735			



ROAD 02

CHAINAGE			0.000	3.000	5.000	15.000	20.000	23.000	28.889	30.000	36.865	40.000	46.056	47.259	49.473	50.000	53.087	53.688
			94.086						92.889	92.926			92.087	44.455				
EXISTING GROUND LEVEL				93.794	93.739								92.179					
					93.590		93.392	93.174	93.029								91.679	91.595
ALIGNMENT LEVEL										92.679								
VERTICAL ALIGNMENT				L= 20.000 KF= -8.51789						G= -5.000% 1: -20.0								
HORIZONTAL ALIGNMENT																		
LEFT HAND CHANNEL					93.545		93.323		93.105		92.861		92.611		92.361		92.111	
					93.545		93.323		93.105		92.861		92.611		92.361		92.111	
RIGHT HAND CHANNEL					93.545		93.323		93.105		92.861		92.611		92.361		92.111	
					93.545		93.323		93.105		92.861		92.611		92.361		92.111	
STORMWATER COVER LEVEL		CL 93.854		IL 89.266							CL 92.924		IL 89.174		CL 88.142			
STORMWATER DETAILS							Pipe 1.001 Dia 900 Circular CLAY 1 in 398 36.659			91.150		90.932		Pipe 1.002 Dia 150 Circular CLAY 1 in 134 6.716		90.690		
FOULWATER COVER LEVEL										92.711		92.081		91.824			91.528	
FOULWATER DETAILS											Pipe 1.000 Dia 150 Circular CLAY 1 in 80 12.251		Pipe 1.001 Dia 150 Circular CLAY 1 in 135 5.339		Pipe 1.002 Dia 150 Circular CLAY 1 in 134 6.716			

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 6TH 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 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 3 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.
- SLAB 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 1 IN 40	S.W. 1 IN 60
ELSEWHERE	1 IN 80	1 IN 100
- ALL GULLY CONNECTIONS TO BE 150mm VITRIFIED CLAY UNLESS NOTED OTHERWISE
- MINIMUM COVER TO DRAINAGE SOFFIT LEVEL:

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 ENCASEMENT) IS TO BE USED.

ALL WORKS TO BE IN ACCORDANCE WITH KIRKLEES COUNCIL STANDARD DETAILS AND AS AGREED WITH THE COUNCIL APPOINTED REPRESENTATIVE

ALL SEWERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SEWERS FOR ADOPTION 6TH EDITION AND UNITED UTILITIES DETAILS & GUIDELINES.

ALL ADOPTABLE MAIN DRAINAGE IS TO BE SUBJECT TO A SECTION 104 AGREEMENT BETWEEN THE DEVELOPER AND UNITED UTILITIES

PRELIMINARY SUBJECT
TO S38 & S278 APPROVAL

P05	12.06.2026	UPDATED TO SUIT LATEST ARCHITECTS LAYOUT	LS	KOB	KOB
P04	05.09.2025	UPDATED TO SUIT LATEST ARCHITECTS LAYOUT	LS	KOB	KOB
P03	18.02.2025	LEVELS UPDATED FOLLOWING EXISTING CULVERT SURVEY	LS	KOB	KOB
P02	10.02.2025	LEVELS UPDATED FOLLOWING EXISTING CULVERT SURVEY	LS	KOB	KOB
P01	11.04.2024	PRELIMINARY ISSUE	JLJ	KOB	KOB
REV	DATE	DESCRIPTION	BY	CHK	APP

DRAWING STATUS:

PRELIMINARY

CLIENT:

WESTSHIELD

ARCHITECT:

BERNARD TAYLOR PARTNERSHIPS

PROJECT:

DOWKER STREET
MILNESBRIDGE
HUDDERSFIELD

TITLE:

S38 & S278

HIGHWAY LONGSECTIONS

STATUS:	PROJECT No.	PROJECT	ORIGINATOR	VOL/YS	LEVEL	TYPE	ROLE	DRAWING No.	REV:
S2	223-043	DSH - AJP - XX - 00 - DR - C - 1520					C	1520	P05

SCALE @ A1:	DESIGNED:	DRAWN:	CHECKED:	APPROVED:	DATE:
1:100 x 1:500	LS	LS	KOB	KOB	APR 2024



consulting engineers

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