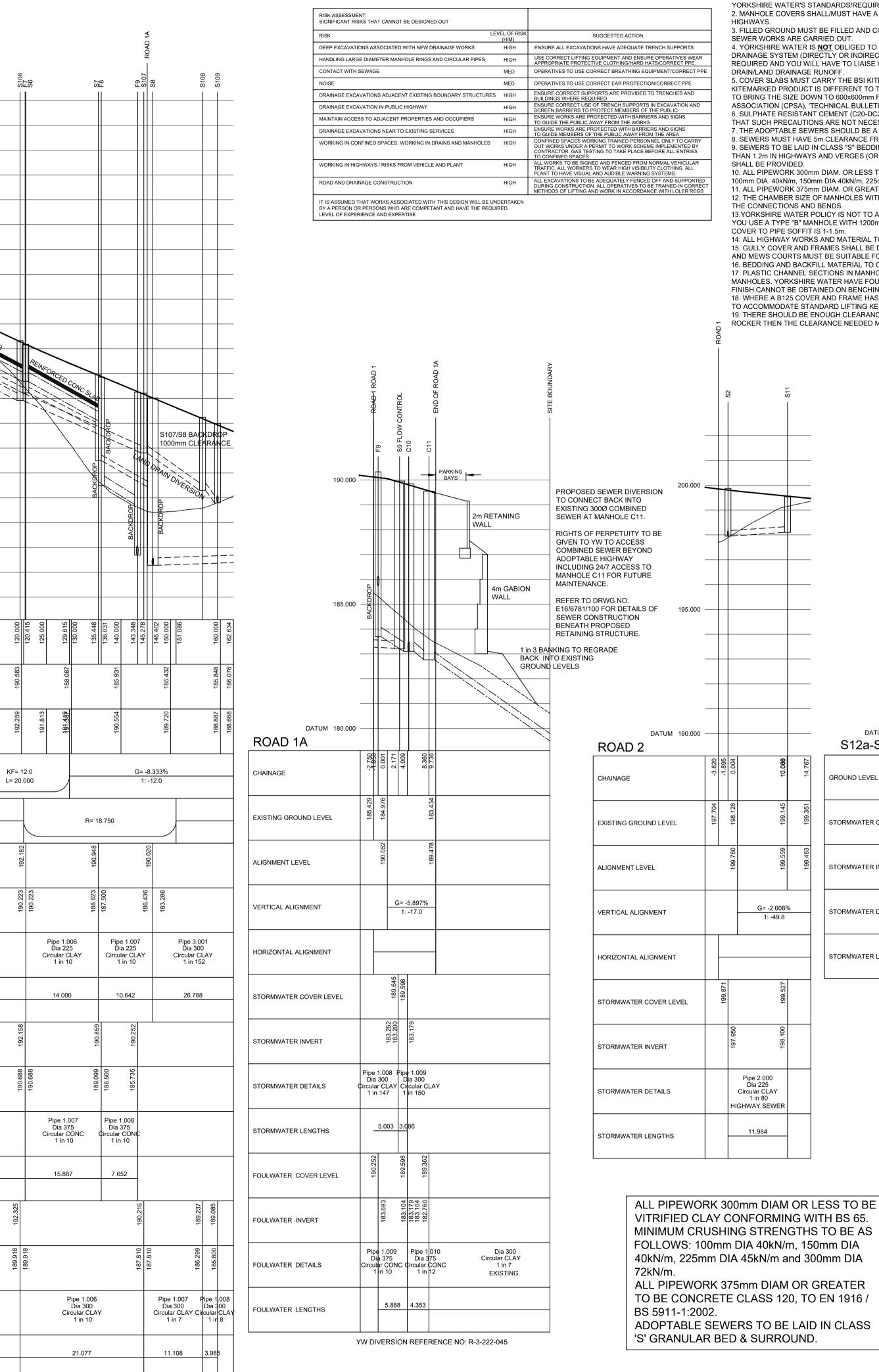
<i>N</i> REF: R-3-222-0 <i>N</i> REF: H-3-264-5								
	- EXMH F1 CL GILROYD LA - EXMH F1 NEW CHANNEL 	- 51 - S1 - S100	- \$101 - 52 - 52 - 5102 - 5102		= \$103 F5 \$124 \$124			- S106
200.000 -								
			S2/S101 445mm CLEARAN	CE				
-				/S102 0mm CLEARANCE				
195.000 -		EXIS STONE	STING REDUNDANT CAPPED CULVERT IPE LEVEL: 195.808	LAND DRAIN DIVERSION				\parallel
-			TO BE REMOVED	EXISTING CWS TOP OF PIPE LEVEL: 195 (APPROX)			REINFORCED CONC SI AB	
-				(CONC SLAB	
							AWD DRAIN DIVERSION	
- 190.000								
								-+
								\parallel
- 185.000								
-								-+
DATUM 183.000 -								
CHAINAGE	-3.385 -2.195 -0.000 1.495 5.000 5.000 1.000 1.000	11,500 11,751 16,351 16,351 17,716 20,000 22,390 23,363 23,363 25,248	30.000 32.492 34.225 34.225 34.225 34.255 41.918 41.918 45.000 47.868	50.000 55.000 58.615 60.000 60.615 65.000 70.000	70.648 75.000 76.735 80.600 80.615 80.615 87.615	88.374 90.000 94.161 95.000 97.466 97.466	105.000 107.615 109.615 110.000 115.000	120.000
EXISTING GROUND LEVEL	201.791	199.214	198.199	196.046 197.613 198.568		195.997	192.415	190.583
ALIGNMENT LEVEL	201.724 201.640 201.595 201.420	201.183 200.884 200.649	200.157 199.519 199.415 199.020	198.592 198.131 197.778 197.508 197.150 196.687	196.250 185.949 195.240	195.049 194.629 194.183	193.710 193.452 193.254 193.254 192.726	192.259
VERTICAL ALIGNMENT	1: KF				G= .40741 -7.874% 0.000 1:	L= 20.000 KF= -9.4074		KF= 12.0 L= 20.000
	-40.0	R=		-10.0	-12.7		-10.0	
HORIZONTAL ALIGNMENT		20.000	R= 11.750		R= 15.950			
STORMWATER COVER LEVEL		200.996	199.871		196.126	194.712		192.182
STORMWATER INVERT		199.550	197.950 197.950 196.950 196.950		193.966 193.966 193.227	193.227 192.859 192.859		190.223
STORMWATER DETAILS		Pipe 1.000 Dia 225 Circular CLA 1 in 10 HIGHWAY SEV	Dia 225 Y Circular CLAY 1 in 10	Pipe 1.002 Dia 225 Circular CLAY 1 in 12	Pipe 1.003 Dia 225 Circular CLAY 0 1 in 16	Pipe 1.004 Dia 225 Ircular CLAY 1 in 16	Pipe 1.005 Dia 225 Circular CLAY 1 in 10	
STORMWATER LENGTHS		16.000	10.000	35.804	11.822	5.898	26.756	
FOULWATER COVER LEVEL	201.790	774.107	199.976		196.120 195.319	194.672		192.158
FOULWATER INVERT	198.780 198.065	197.990	196.626 196.626 196.126 196.126		194.364 194.364 193.672	193.672 193.265 193.265		190.688 190.688
FOULWATER DETAILS	Pipe 1.000 Dia 300 Circular CLAY 1 in 20	Pipe 1.001 Dia 375 Circular CONC 1 in 14	Pipe 1.002 Dia 375 Circular CONC 1 in 19	Pipe 1.003 Dia 375 Circular CONC 1 in 20	Pipe 1.004 Dia 375 Circular CONC C 1 in 16	Pipe 1.005 Dia 375 ircular CONC 1 in 21	Pipe 1.006 Dia 375 Circular CONC 1 in 10	
FOULWATER LENGTHS	14.595	19.568	9.593	35.241	11.069	8.644	25.972	
LAND DRAIN COVER LEVEL		200.528	200.050		196.137	194.802		192.325
LAND DRAIN INVERT		98.120	197.350 197.350 196.050 196.050		193.544 193.544 192.938 102.938	192.583		189.918 189.918
LAND DRAIN DETAILS		Pipe 1. Dia 3 Circular 1 in	00 Dia 300 CLAY Circular CLAY	Pipe 1.002 Dia 300 Circular CLAY 1 in 13	Dia 300 I Circular CLAY Circ	pe 1.004 Dia 300 ular CLAY 1 in 16	Pipe 1.005 Dia 300 Circular CLAY 1 in 10	
				10	/ 10			



1. ALL ADOPTABLE SEWER WORKS AND MATERIAL TO BE IN ACCORDANCE WITH "CODES FOR ADOPTION", THE RELEVANT BRITISH/EUROPEAN AND YORKSHIRE WATER'S STANDARDS/REQUIREMENTS/ADDENDUM TO THE MECHANICAL AND ELECTRICAL SPECIFICATION AND KITEMARKED. 2. MANHOLE COVERS SHALL/MUST HAVE A CLEAR OPENING OF 600mm AND SHALL BE CLASS D400 TO BS EN 124 WITH 150mm DEEP FRAMES IN

HIGHWAYS. 3. FILLED GROUND MUST BE FILLED AND CONSOLIDATED UNDER THE SUPERVISION AND TO THE SATISFACTION OF YORKSHIRE WATER BEFORE ANY SEWER WORKS ARE CARRIED OUT. 4. YORKSHIRE WATER IS **NOT** OBLIGED TO ACCEPT FILTER DRAIN/LAND DRAINAGE RUNOFF INTO THE PUBLIC SEWER NETWORK OR ADOPTABLE DRAINAGE SYSTEM (DIRECTLY OR INDIRECTLY). AN ALTERNATIVE METHOD OF DISPOSAL OF THE LAND DRAINAGE RUNOFF WILL THEREFORE BE REQUIRED AND YOU WILL HAVE TO LIAISE WITH THE LOCAL AUTHORITY, LAND DRAINAGE SECTION WITH REGARD TO THE DISPOSAL OF THE FILTER

5. COVER SLABS MUST CARRY THE BSI KITEMARK OR WILL BE REJECTED BY YORKSHIRE WATER INSPECTOR. WHERE THE CLEAR OPENING OF THE KITEMARKED PRODUCT IS DIFFERENT TO THAT OF THE COVER AND FRAME, A LOADING BEARING SLAB SHOULD BE FITTED ABOVE THE COVER SLAB TO BRING THE SIZE DOWN TO 600x600mm FOR THE YORKSHIRE WATER SPECIFIED COVER SIZE. PLEASE REFER TO CONCRETE PIPE SYSTEMS ASSOCIATION (CPSA), 'TECHNICAL BULLETIN' ISSUED AUTUMN 2004 FOR KITEMARKED COVER SLAB OPENING SIZES. 6. SULPHATE RESISTANT CEMENT (C20-DC2) AND PRECAST CONCRETE PRODUCTS MUST BE USED OR A LABORATORY REPORT PROVIDED PROVING THAT SUCH PRECAUTIONS ARE NOT NECESSARY.

 THE ADOPTABLE SEWERS SHOULD BE A MINIMUM OF 1m AND MANHOLES 0.5m FROM KERB FACES.
SEWERS MUST HAVE 5m CLEARANCE FROM TREES AND HEDGES
SEWERS TO BE LAID IN CLASS "S" BEDDING (150mm GRANULAR BED AND SURROUND). WHERE DEPTH OF COVER TO TOP OF THE SEWER IS LESS THAN 1.2m IN HIGHWAYS AND VERGES (OR LESS THAN 900mm IN NONE VEHICULAR ACCESS AREAS) THEN A 175mm CONCRETE SLAB OVER SEWER

SHALL BE PROVIDED. 10. ALL PIPEWORK 300mm DIAM. OR LESS TO BE VITRIFIED CLAY CONFORMING WITH BS 65. MINIMUM CRUSHING STRENGTHS TO BE AS FOLLOWS: 100mm DIA. 40kN/m, 150mm DIA 40kN/m, 225mm DIA 45kN/m, 300mm DIA 72kN/m. 11. ALL PIPEWORK 375mm DIAM. OR GREATER TO BE CONCRETE CLASS 120 TO EN 1916/ BS 5911-1: 2002,

12. THE CHAMBER SIZE OF MANHOLES WITH MORE THAN ONE CONNECTION IN THEM MAY NEED TO BE INCREASED AN INCREMENT TO ACCOMMODATE THE CONNECTIONS AND BENDS. 13. YORKSHIRE WATER POLICY IS NOT TO ACCEPT TYPE "C" BRICK MANHOLES AND 1050mm DIAM. MANHOLE RINGS. INSTEAD IT IS PREFERRED THAT YOU USE A TYPE "B" MANHOLE WITH 1200mm DIAM. OR 1500mm DIAM. RINGS, WITH THE OPENING SIGHTED OVER THE CHANNEL WHERE DEPTH OF

COVER TO PIPE SOFFIT IS 1-1.5m. 14. ALL HIGHWAY WORKS AND MATERIAL TO CONFORM WITH KIRKLEES COUNCIL SPECIFICATION.

 15. GULLY COVER AND FRAMES SHALL BE D400 DUCTILE IRON AND COMPLY WITH EUROPEAN STANDARD BS EN 124. THOSE SIGHTED IN ACCESSWAYS AND MEWS COURTS MUST BE SUITABLE FOR USE IN PEDESTRIAN AREAS.
16. BEDDING AND BACKFILL MATERIAL TO CONFORM TO THE REQUIREMENT OF WATER INDUSTRY SPECIFICATION 4-08--2 (TABLE A2).
17. PLASTIC CHANNEL SECTIONS IN MANHOLES ARE NOT ACCEPTABLE AND YORKSHIRE WATER WOULD PREFER CLAYWARE CHANNELS IN

MANHOLES. YORKSHIRE WATER HAVE FOUND THAT PLASTIC CHANNELS ARE DIFFICULT TO SET IN CONCRETE AS THEY FLOAT AND A SATISFACTORY FINISH CANNOT BE OBTAINED ON BENCHING. 18. WHERE A B125 COVER AND FRAME HAS BEEN APPROVED, THIS <u>MUST NOT</u> BE COATED IN PLASTIC AND MUST HAVE LIFTING EYES SUITABLY SIZED TO ACCOMMODATE STANDARD LIFTING KEYS. SCREW DOWN COVERS ARE <u>NOT</u> ACCEPTABLE. 19. THERE SHOULD BE ENOUGH CLEARANCE TO ACCOMMODATE THE BEDDING FOR BOTH PIPES, APPROX 300mm : IF CROSSOVER IS NEAR THE ROCKER THEN THE CLEARANCE NEEDED MAY BE INCREASED.

