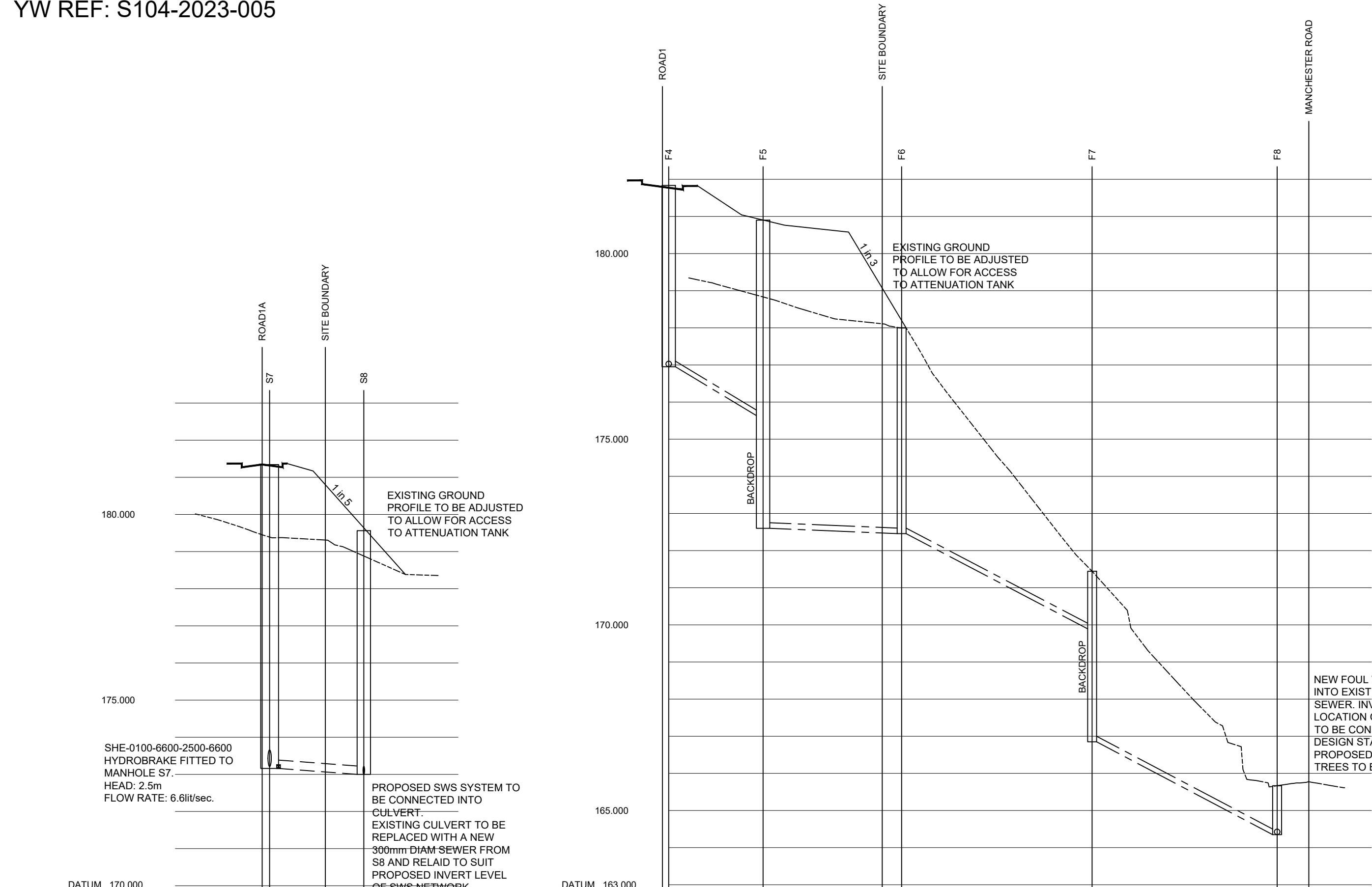
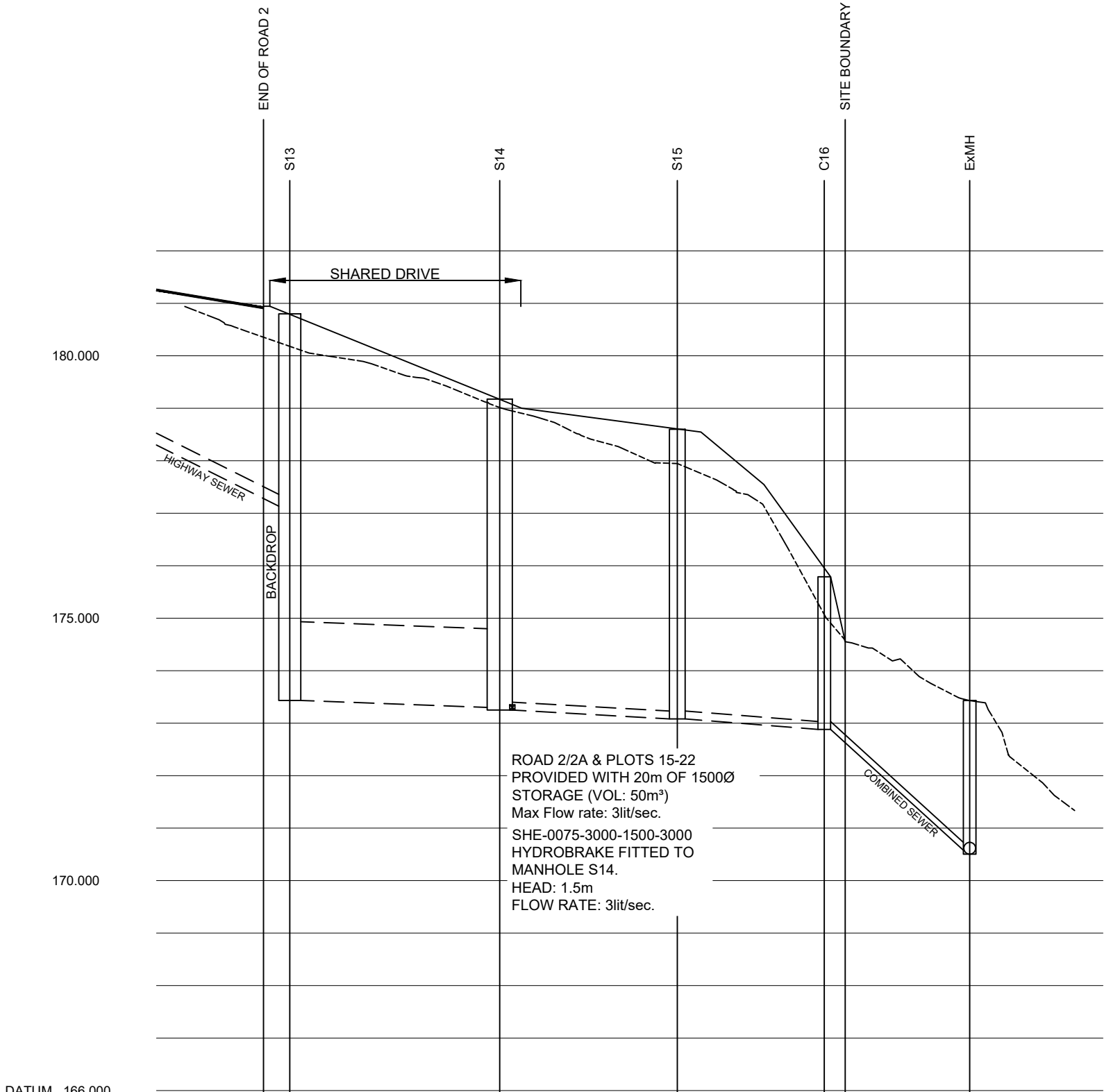


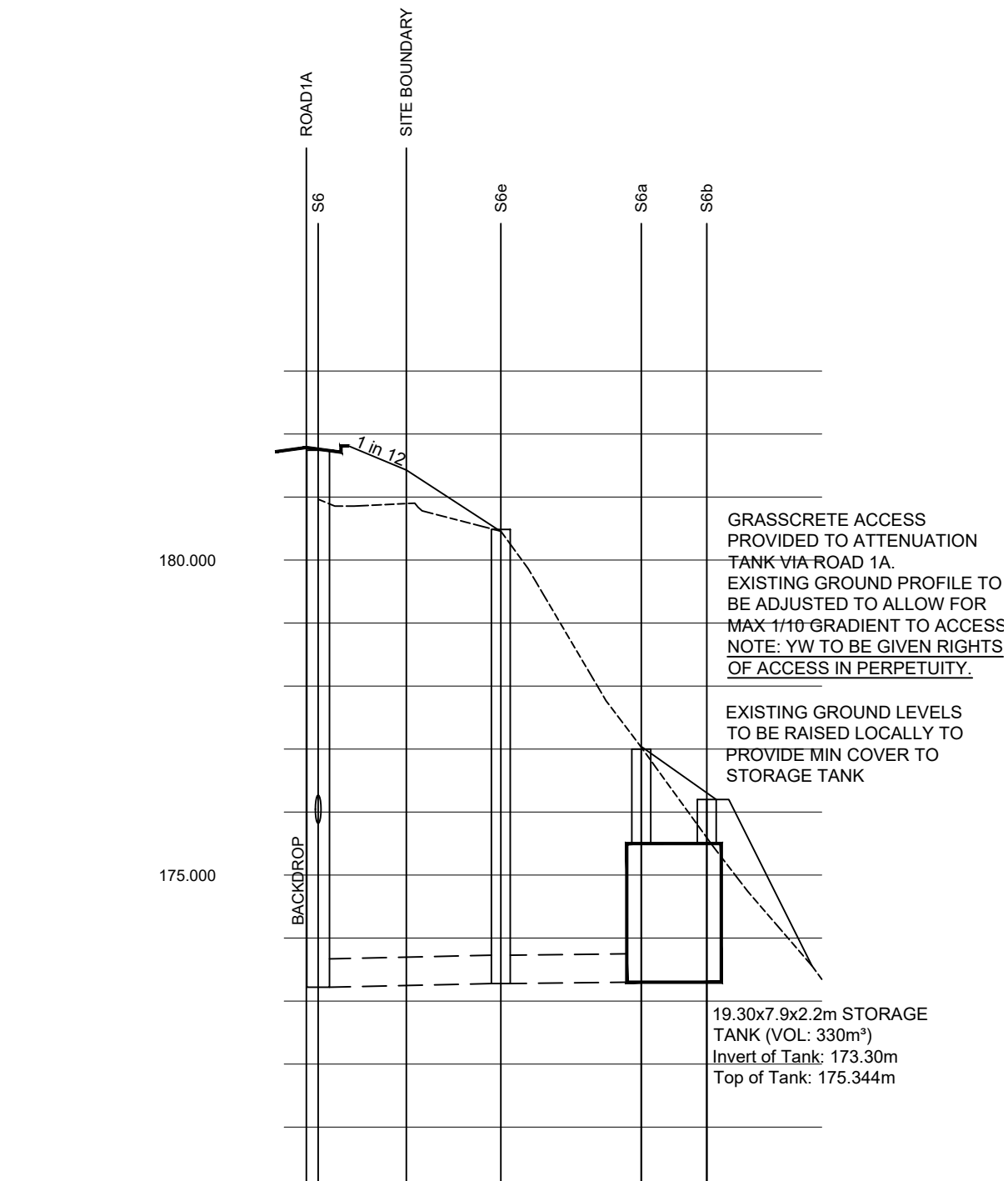


SWS OUTFALL				
GROUND LEVEL	180.015	179.301	179.132	178.845
STORMWATER COVER LEVEL		181.342	179.000	
STORMWATER INVERT	173.180 173.130		173.000	
STORMWATER DETAILS	Pipe 1.006 Dia 225 Circular CLAY 1 in 98			
STORMWATER LENGTHS		12.676		

FWS OUTFALL				
GROUND LEVEL	173.344	178.832	178.236	177.507
FOULWATER COVER LEVEL	181.835	180.900		
FOULWATER INVERT	176.952	175.836 172.600	172.457	171.443
FOULWATER DETAILS	Pipe 1.003 Dia 150 Circular CLAY 1 in 10	Pipe 1.004 Dia 150 Circular CLAY 1 in 130	Pipe 1.005 Dia 150 Circular CLAY 1 in 10	Pipe 1.006 Dia 150 Circular DUCTILE IRON 1 in 10
FOULWATER LENGTHS	13.160	16.649	25.641	24.900



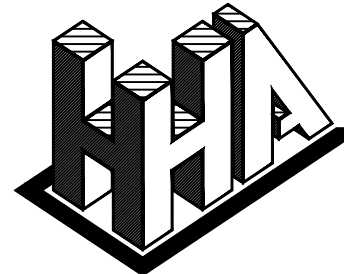
S13 - OUTFALL				
GROUND LEVEL	180.940	180.181	179.695	179.018
STORMWATER COVER LEVEL		180.800		
STORMWATER INVERT	177.135 173.433		173.300 173.250	173.081 173.061
STORMWATER DETAILS	Pipe 1.002 Dia 225 Circular CLAY 1 in 10 HIGHWAY SEWER	Pipe 1.003 Dia 1500 Circular CONC 1 in 150	Pipe 1.004 Dia 150 Circular CLAY 1 in 100	Pipe 1.005 Dia 150 Circular CLAY 1 in 82
STORMWATER LENGTHS	23.366	20.000	16.913	14.000



STORAGE				
EXISTING GROUND LEVEL	180.965	180.690	178.735	175.626
STORMWATER COVER LEVEL	181.743	180.800	177.000	176.200
STORMWATER INVERT	175.620 173.320	173.276 173.276	173.300	173.300
STORMWATER DETAILS	OVERFLOW Dia 450 Circular CONC 1 in 250		OVERFLOW Dia 450 Circular CONC 1 in 250	STORAGE 20x7.5x2.2m Tank CONC
STORMWATER LENGTHS	14.500		10.000	7.500

1. ALL ADAPTABLE 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 DRAINLAND DRAINAGE RUNOFF INTO THE PUBLIC SEWER NETWORK OR ADAPTABLE 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 DRAINLAND DRAINAGE RUNOFF.
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.
7. THE ADAPTABLE SEWERS SHOULD BE A MINIMUM OF 1m AND MANHOLES 0.5m FROM KERB FACES.
8. SEWERS MUST HAVE 5m CLEARANCE FROM TREES AND HEDGES
9. 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 DESIGN GUIDANCE AND 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 **MUST NOT** BE COATED IN PLASTIC AND MUST HAVE LIFTING EYES SUITABLY SIZED TO ACCOMMODATE STANDARD LIFTING KEYS. SCREW DOWN COVERS ARE **NOT** 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.

- Rev F C16 - ExMH amended to suit as built levels.
Rev E F4-F5 and storage tank info amended.
Rev D S12-S13 amended to suit Kirklees comments.
Rev C Hydrobrake at MHS14 amended to suit YW comments. C16-ExMH revised.
Rev B Highway sewers indicated
Rev A Proposed drainage design updated
- 22.11.24 HH
25.09.24 HH
28.08.24 HH
09.07.24 HH
14.02.24 HH
13.02.24 HH



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Client
SB HOMES

Project
LINGARD ROAD, SLAITHWAITE

Detail
OFF-SITE SEWER LONG SECTIONS

Dwn	Chkd	Date	Scale	Dwg No.
HH		NOV-23	1:500hor 1:100ver@A1	E19/7567/005-02F