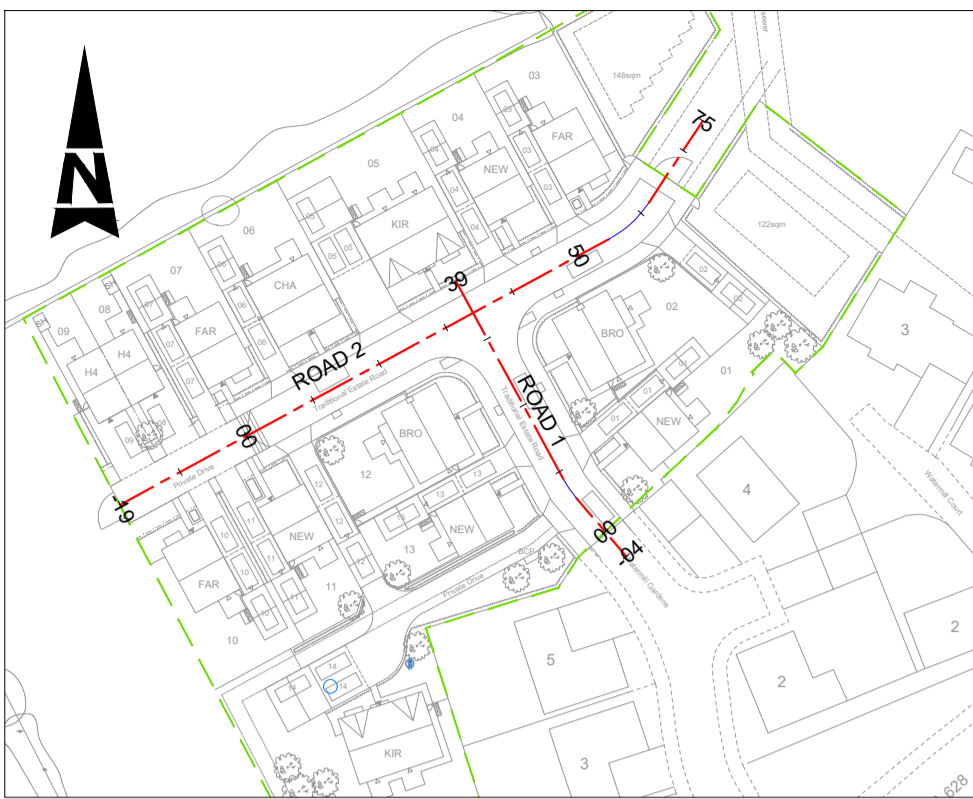
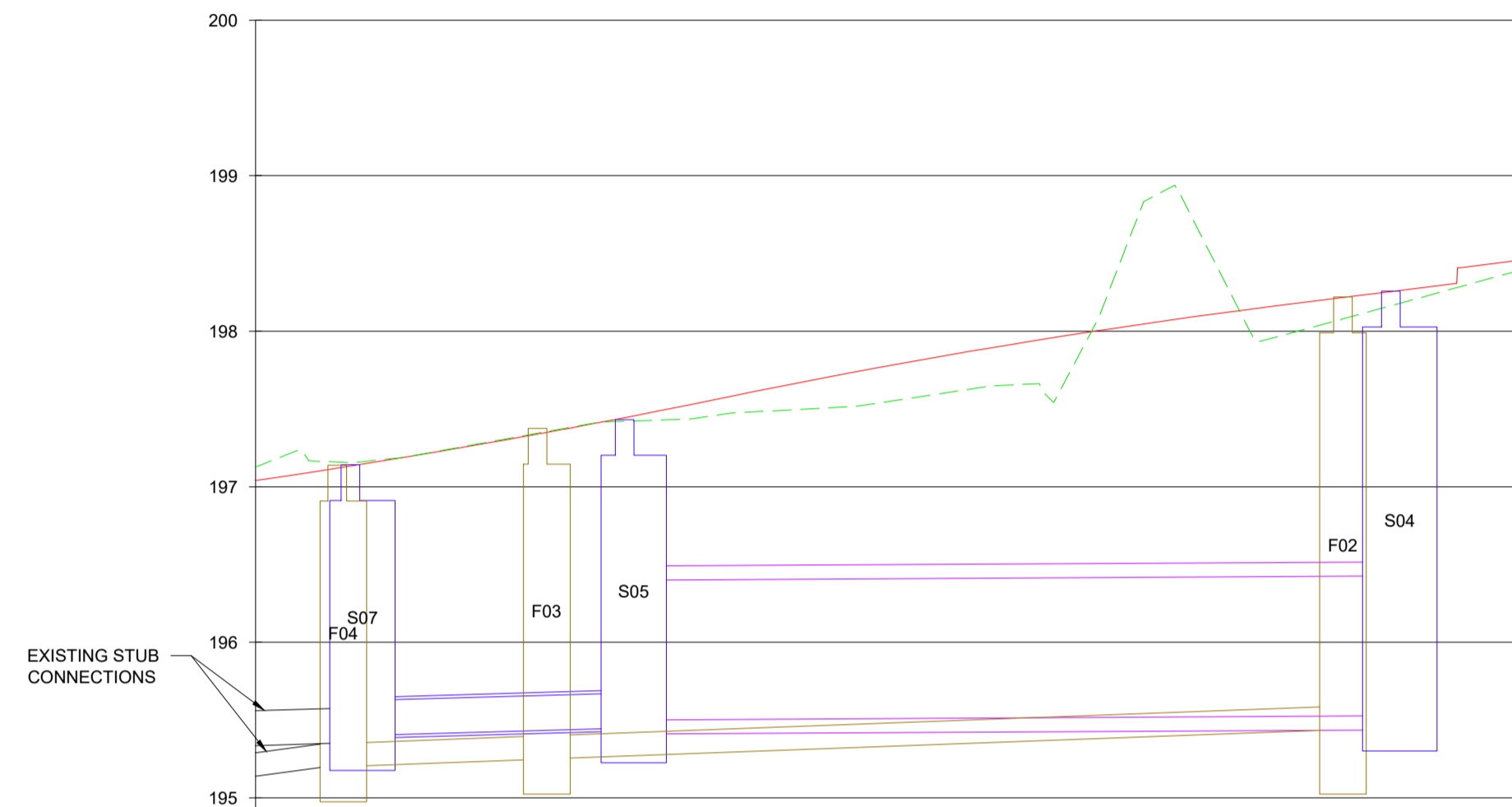


H-?-?-?-???

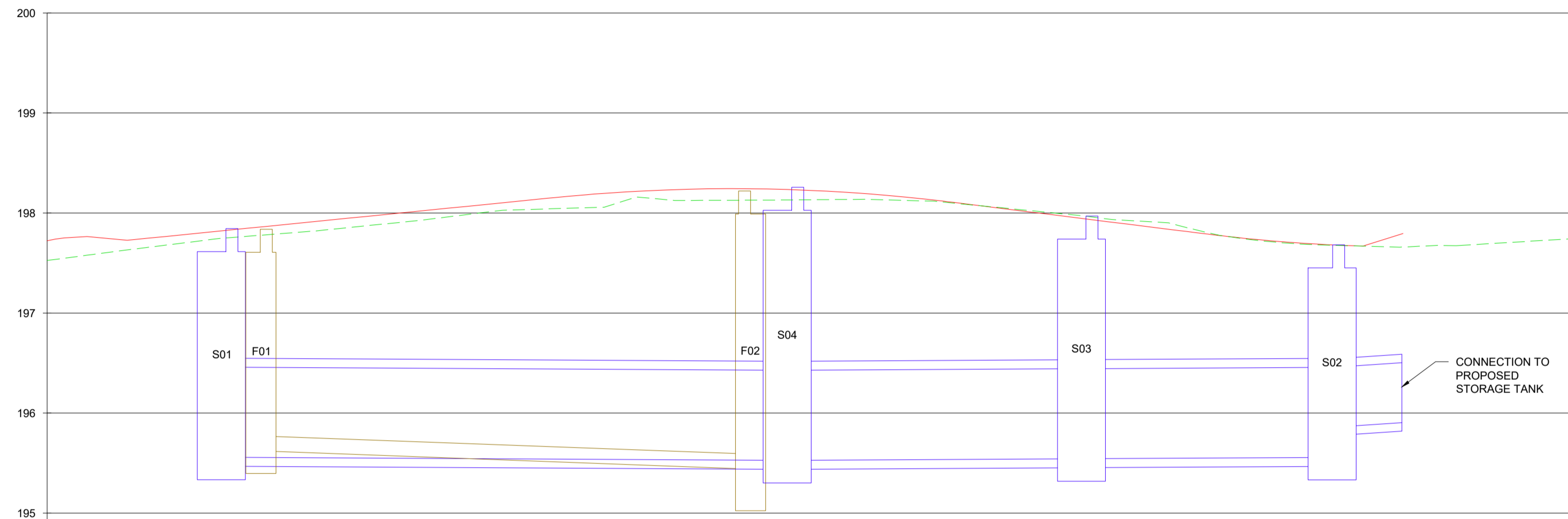


LOCATION PLAN  
SCALE 1:1000



CHAINAGE (m)	EXISTING GROUND LEVEL (m) (A.O.D)	PROPOSED GROUND (m) (A.O.D)	CENTERLINE	SURFACE PROPOSED COVER LEVELS (m) AND PIPE MATERIAL	SURFACE PROPOSED INVERT LEVELS (m)	FOUL PROPOSED COVER LEVELS (m) AND PIPE MATERIAL	FOUL PROPOSED INVERT LEVELS (m)
-02.000	197.126	197.040	197.040				
00.000	197.164	197.100	197.100			Vitrified Clay (40kN/m)	PN F1 002 8.650m 1500mm @ 1:135 Left Invert 195.200 Right Invert 195.249
10.000	197.422	197.449	197.449			Vitrified Clay (40kN/m)	PN F1 001 25.718m 1500mm @ 1:135 Left Invert 195.249 Right Invert 195.440
20.000	197.597	197.636	197.636				
30.000	197.998	198.141	198.141				
38.650	198.390	198.454	198.454				

ROAD 1 - LONGSECTION  
SCALE: H 1:200,V 1:40. DATUM: 194.000



CHAINAGE (m)	EXISTING GROUND LEVEL (m) (A.O.D)	PROPOSED GROUND (m) (A.O.D)	CENTERLINE	SURFACE PROPOSED COVER LEVELS (m) AND PIPE MATERIAL	SURFACE PROPOSED INVERT LEVELS (m)	FOUL PROPOSED COVER LEVELS (m) AND PIPE MATERIAL	FOUL PROPOSED INVERT LEVELS (m)
-02.000	197.526	197.722	197.722				
00.000	197.578	197.764	197.764				
10.000	197.799	197.887	197.887			Vitrified Clay (40kN/m)	PN F1 000 24.484m 1500mm @ 1:135 Left Invert 195.621 Right Invert 195.440
20.000	198.009	198.087	198.087				
30.000	198.126	198.237	198.237				
40.000	198.151	198.176	198.176				
50.000	197.967	197.940	197.940				
60.000	197.699	197.710	197.710				
70.000	197.692						
74.700	197.749						

ROAD 2 - LONGSECTION  
SCALE: H 1:200,V 1:40. DATUM: 194.000

YORKSHIRE WATER NOTES:

- ALL ADOPTABLE SEWER WORKS AND MATERIAL TO BE IN ACCORDANCE WITH 'CODE FOR ADOPTION'. THE RELEVANT BRITISH/EUROPEAN AND YORKSHIRE WATER'S STANDARDS/REQUIREMENTS/ADDENDUM TO THE MECHANICAL AND ELECTRICAL SPECIFICATION AND KITEMARKED.
- MANHOLE COVERS SHALL HAVE A CLEAR OPENING OF 600mm AND SHALL BE CLASS D400 TO BS EN 124 WITH 150mm DEEP FRAMES IN HIGHWAYS.
- FILLED GROUND MUST BE FILLED AND CONSOLIDATED UNDER THE SUPERVISION AND TO THE SATISFACTION OF YORKSHIRE WATER BEFORE ANY SEWER WORKS ARE CARRIED OUT.
- YORKSHIRE WATER IS NOT OBLIGED TO ACCEPT FILTER DRAINLAND DRAINAGE RUN-OFF INTO THE PUBLIC SEWER NETWORK OR ADOPTABLE DRAINAGE SYSTEM (DIRECTLY OR IN-DIRECTLY). AN ALTERNATIVE METHOD OF DISPOSAL OF THE LAND DRAINAGE RUN-OFF WILL THEREFORE BE REQUIRED AND YOU WILL HAVE TO LIAISE WITH THE LOCAL AUTHORITY, LAND DRAINAGE SECTION REGARDING THE DISPOSAL OF THE FILTER DRAINLAND DRAINAGE RUN-OFF.
- THE ADOPTABLE SEWERS SHOULD BE A MINIMUM OF 1m AND MANHOLES 0.5m FROM KERB FACES AND SERVICE MARGINS.
- SEWERS MUST HAVE 5 METRES CLEARANCE FROM TREES AND HEDGES OR THE WIDTH OF THE CANOPY AT MATURE HEIGHT.
- 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 NON-HIGHWAY ACCESS AREAS THEN A CONCRETE SLAB SHOULD BE PROVIDED ABOVE GRANULAR BED AND SURROUND.
- BEDDING AND BACKFILL MATERIAL TO CONFORM TO THE REQUIREMENT OF WATER INDUSTRY SPECIFICATION 4-08-02 (TABLE A2).
- YORKSHIRE WATER POLICY IS THAT TYPE 'C' BRICK MANHOLES AND 1050mm DIAMETER MANHOLE RINGS ARE NOT PREFERRED. INSTEAD, IT IS PREFERRED THAT YOU USE A TYPE 'B' MANHOLE WITH 1200mm DIAMETER OR 1500mm DIAMETER RINGS, WITH THE OPENING SITED OVER THE CHANNEL WHERE DEPTH OF COVER TO PIPE SOFFIT IS 1 - 1.5m.
- ADOPTABLE PLASTIC SEWER PIPES TO BE BSI KITEMARKED (CERTIFIED TO WIS 4-35-01 AND BS EN 1478). ADOPTABLE PLASTIC SEWER PIPES TO BE LAID IN MAXIMUM 3 METRE LENGTHS UNLESS THERE IS A SPECIFIC OPERATIONAL NEED TO LAY LONGER LENGTHS. PLASTIC CHANNEL SECTIONS IN MANHOLES ARE NOT ACCEPTABLE AND YORKSHIRE WATER WOULD REQUIRE CLAY WARE CHANNEL IN MANHOLES.
- THE MINIMUM CRUSHING STRENGTH FOR CLAY PIPES SHOULD BE AS FOLLOWS: 100mm DIA. 40kN/m, 150mm DIA. 40kN/m, 225mm DIA. 45kN/m AND 300mm DIA. 72kN/m. THE MINIMUM CRUSHING STRENGTH FOR CONCRETE PIPES SHOULD BE - (CLASS 120 TO EN 1916/BS5911-1:2002). PLASTIC PIPES SHOULD CONFORM TO WIS 4-35-01 AND BS EN13476.
- 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.
- THERE MUST BE ENOUGH CLEARANCE AT CROSSOVERS TO ACCOMMODATE BEDDING TO BOTH PIPES. APPROX. 300mm. IF CROSSOVER IS NEAR THE ROCKER THEN THE CLEARANCE NEEDED MAY NEED TO BE INCREASED.

THE INFORMATION ON THIS DRAWING IS FOR APPROVAL PURPOSES ONLY. NO CONSTRUCTION WORKS ARE TO BE UNDERTAKEN UNTIL WRITTEN APPROVAL IS RECEIVED FROM YORKSHIRE WATER.

- BOUNDARY KEY**
- PROPOSED SITE BOUNDARY
- LONGSECTION KEY**
- PROPOSED GROUND LEVEL
  - EXISTING GROUND LEVEL
  - PROPOSED S104 SURFACE WATER DRAINAGE
  - PROPOSED S104 FOUL WATER DRAINAGE

- NOTES:
- THESE NOTES ARE INTENDED TO AUGMENT DRAWINGS AND SPECIFICATIONS. WHERE CONFLICT OF REQUIREMENTS EXIST THE ORDER OF PRECEDENCE SHALL BE AS SHOWN IN THE SPECIFICATION. OTHERWISE THE STRICTEST PROVISION SHALL GOVERN.
  - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ENGINEERS AND ARCHITECTS DRAWINGS.
  - DRAWINGS NOT TO BE SCALED. ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR. ANY DISCREPANCIES TO BE NOTIFIED TO THE ENGINEER AND FURTHER INSTRUCTIONS OBTAINED BEFORE WORK IS COMMENCED.
  - ALL LEVELS ARE AOD (ABOVE ORDINANCE DATUM) UNO.

www.alanwood.co.uk

**Locations:**  
Hull  
Leeds  
Lincoln  
Scarborough  
Sheffield  
Stockton-on-Tees  
York

**Issuing Office:**  
Hull Office  
341 Beverley Road  
Hull  
HU5 1LD

eng@alanwood.co.uk  
T. 01482 442138

Project: PROPOSED DEVELOPMENT AT LAND OFF WAREMILL GARDENS, PENISTONE

Client: MULGRAVE PROPERTY GROUP LTD

Drawing: SECTION 104 - LONGSECTIONS

Role: CIVIL ENGINEER

Drawing Status: FOR APPROVAL

Job no. 47480

Scale@ A1: AS NOTED

Rev. P01

Project Originator Zone Level Type Role Number  
MDL - AWP - ZZ - XX - DR - C - 3201

P01	FIRST ISSUE	12.05.26	MJC	SC	--
Rev	Description	Date	By	Chk	App