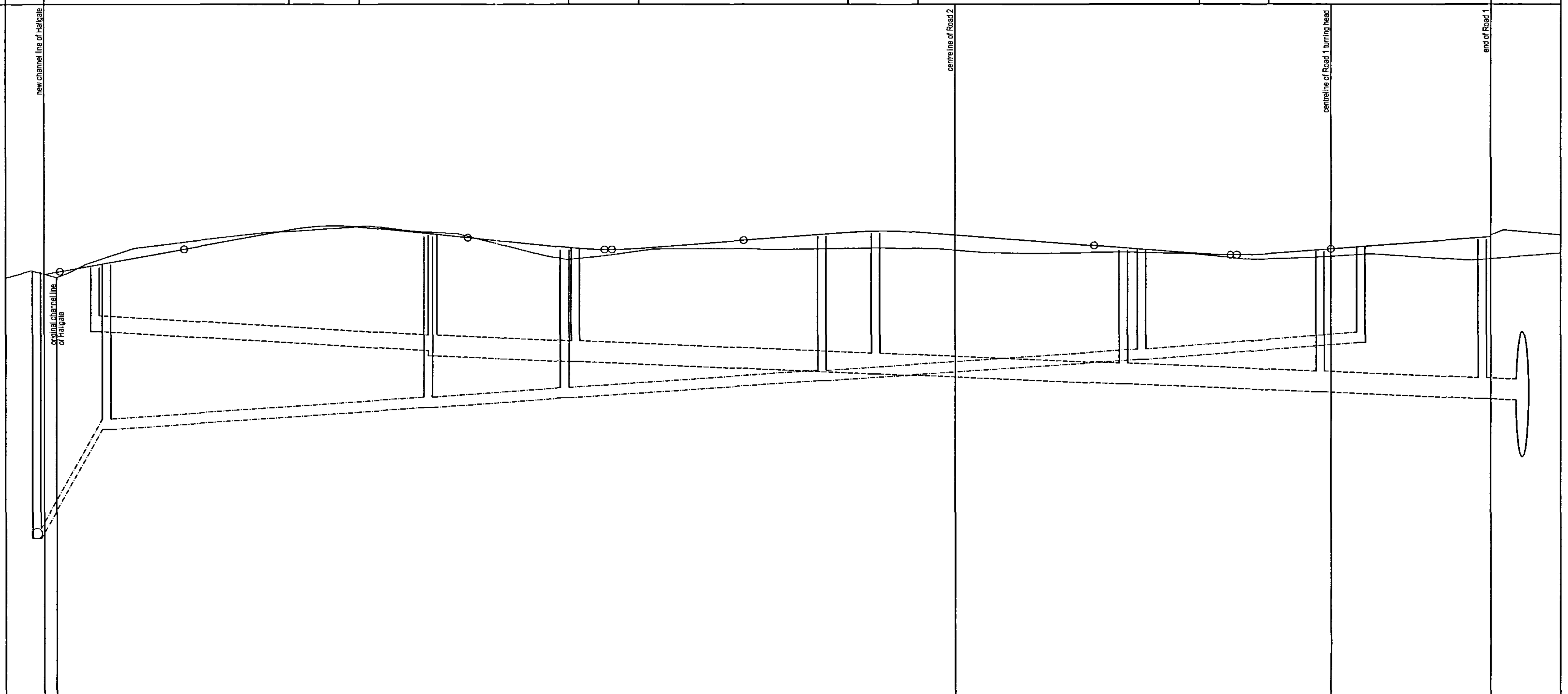
Road 1

Horz. Scale 1/500
Vert. Scale 1/50

Row	Values (left to right)
Horiz Alignment	Straight, Length = 50.428 · Arc, R -10.500 · Straight, L 11.060 · Arc, R -10.500 · Straight, Length = 70.887 · Circular Arc, R 39.125 · Str, 3.898 · Circular Arc, R -33.100 · Straight, L 21.204
Vert Alignment	Straight, Grade = 1:55 · Hog, k = 3.875 · Straight, Grade = 1:-100 · Sag, k = 5.750 · Straight, Grade = 1:130 · Hog, k = 6.500 · Straight, Grade = 1:-130 · Sag, k = 6 500 · Straight, Grade = 1:130



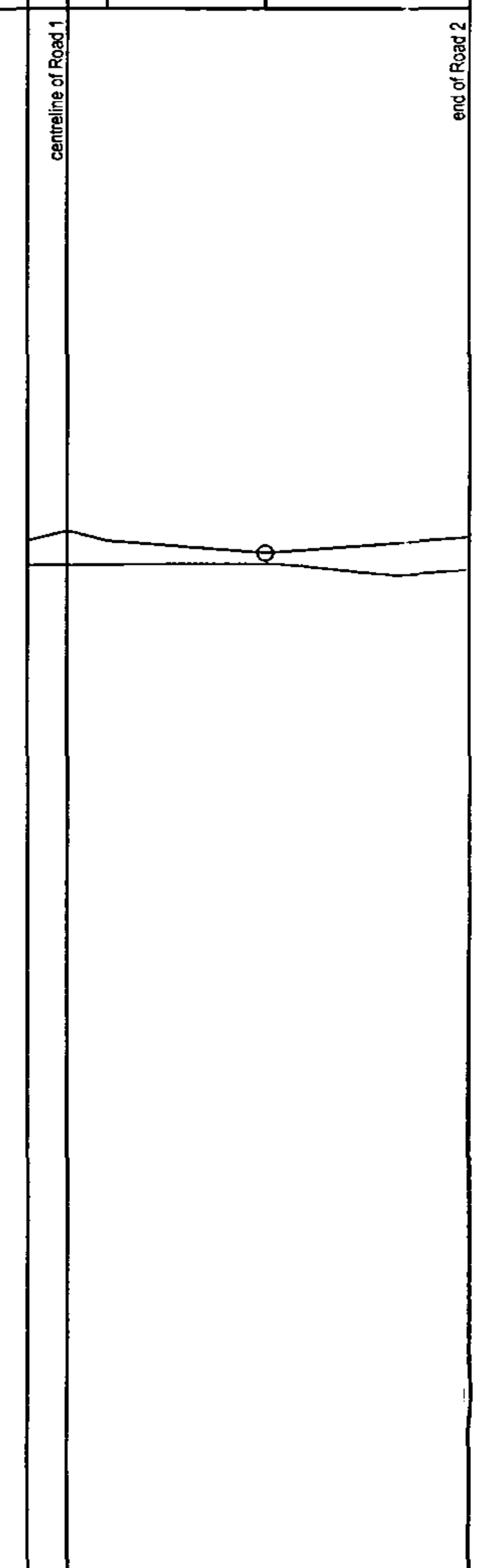
-3.000m ODN

Row	Values (left to right)
Ex Ground Level	3.11 · 3.19 · 3.14 · 3.09 · 3.42 · 3.60 · 3.72 · 3.75 · 3.78 · 3.79 · 3.82 · 3.78 · 3.69 · 3.44 · 3.34 · 3.40 · 3.40 · 3.46 · 3.50 · 3.50 · 3.49 · 3.50 · 3.51 · 3.51 · 3.50 · 3.48 · 3.48 · 3.43 · 3.44 · 3.43 · 3.41 · 3.36 · 3.35 · 3.36 · 3.38 · 3.42 · 3.35 · 3.35
Prop Road Level	3.137 · 3.319 · 3.501 · 3.682 · 3.773 · 3.829 · 3.832 · 3.814 · 3.764 · 3.664 · 3.564 · 3.514 · 3.486 · 3.486 · 3.503 · 3.541 · 3.618 · 3.695 · 3.733 · 3.752 · 3.752 · 3.733 · 3.694 · 3.692 · 3.617 · 3.540 · 3.463 · 3.424 · 3.405 · 3.424 · 3.463 · 3.493 · 3.540 · 3.617 · 3.668 · 3.693 · 3.765
Foul Manhole	F07 · F06 · F05 · F04 · F03 · F02 · F01
Pipe Details	Existing · 150 1:6.4 10.00 class S bedding (14-5 gravel) · 1200 · Diam= 150 1:150.0 46.38 class S bedding (14-5 gravel) · 1200 · Diam= 150 1:150.0 20.54 class S bedding ((14-5 gravel) · 1200 · Diam= 150 1:150.0 37.26 class S bedding (14-5 gravel) · 1200 · Diam= 150 1:150.0 45.45 class S bedding (14-5 gravel) · 1200 · Diam= 150 1:128.0 31.24 class S bedding (14-5 gravel) · 1200
Cover Level	3.170 · 3.277 · 3.672 · 3.480 · 3.673 · 3.474 · 3.493
Invert Level	-0.670 EX · 0.902 · 1.211 · 1.348 · 1.596 · 1.899 · 2.143 · Diam= 300 1:240.2 4.80 class S bedding (20-5 gravel)
Storm Manhole	S01 · S02 · S03 · S04 · S05 · S06 · S07 · S08
Pipe Details	1200 · Diam= 225 1:169.9 47.91 Highway Drain, C20 concrete bed & surround / class S bedding (14-5 gravel) · 1200 · Diam= 300 1:240.6 19.97 Highway Drain class S bedding (20-5 gravel) · 1200 · Diam= 300 1:239.7 42.66 class S bedding (20-5 gravel) · 1200 · Diam= 300 1:239.4 35.43 class S bedding (20-5 gravel) · 1200 · Diam= 300 1:240.7 28.16 class S bedding (20-5 gravel) · 1200 · Diam= 300 1:240.4 23.08 class S bedding (20-5 gravel) · 1200 · connection
Cover Level	3.237 · 3.694 · 3.502 · 3.720 · 3.469 · 3.454 · 3.627 · 3.700
Invert Level	2.313 · 2.031 · 1.956 · 1.873 · 1.695 · 1.547 · 1.430 · 1.334 · 1.314 · 0.500
Chainage	-5.500 · -1.865 · 0.000 · 1.775 · 10.000 · 20.000 · 30.000 · 35.000 · 40.000 · 41.451 · 45.000 · 50.000 · 60.000 · 70.000 · 75.000 · 80.000 · 80.652 · 85.000 · 90.000 · 100.000 · 110.000 · 114.917 · 119.917 · 120.000 · 124.917 · 130.000 · 130.000 · 140.000 · 150.000 · 160.000 · 165.000 · 170.000 · 175.000 · 180.000 · 183.876 · 190.000 · 200.000 · 206.712

Road 2

Horz. Scale 1/500
Vert. Scale 1/50

Row	Values (left to right)
Horiz Alignment	Straight, Length = 25.347
Vert Alignment	Straight, Grade = 1:-130 · Straight, Grade = 1:130



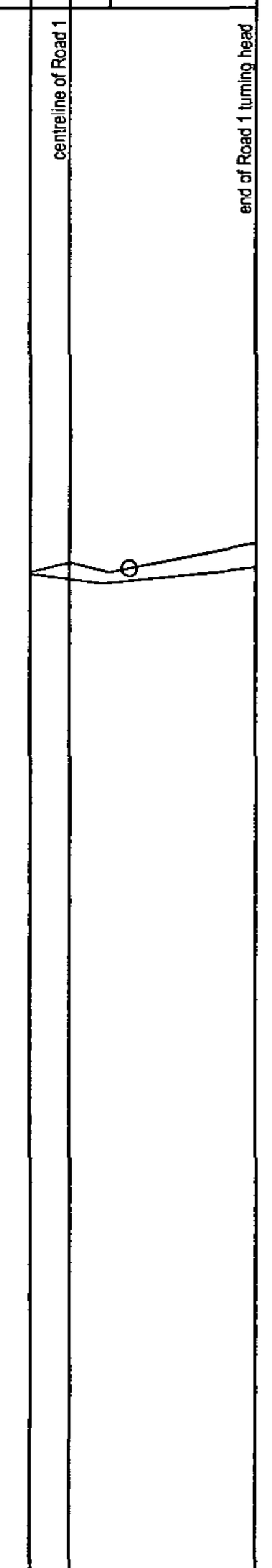
-3.000m ODN

Row	Values (left to right)
Ex Ground Level	3.48 · 3.48 · 3.48 · 3.48 · 3.42
Prop Road Level	3.692 · 3.630 · 3.572 · 3.553 · 3.610 · 3.652
Foul Manhole	
Pipe Details	
Cover Level	
Invert Level	
Storm Manhole	
Pipe Details	
Cover Level	
Invert Level	
Chainage	0.000 · 2.500 · 10.000 · 12.500 · 20.000 · 25.347

Road 1 Turning Head

Horz. Scale 1/500
Vert. Scale 1/50

Row	Values (left to right)
Horiz Alignment	Straight, Length = 11.759
Vert Alignment	Straight, Grade = 1:50



-3.000m ODN

Row	Values (left to right)
Ex Ground Level	3.38 · 3.36 · 3.44
Prop Road Level	3.493 · 3.430 · 3.580
Foul Manhole	
Pipe Details	
Cover Level	
Invert Level	
Storm Manhole	
Pipe Details	
Cover Level	
Invert Level	
Chainage	0.000 · 2.500 · 10.000

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NOTES:

ALL SEWERS TO BE CONSTRUCTED IN ACCORDANCE WITH THE PROCEDURES AND SPECIFICATIONS OF SEWERS FOR ADOPTION 6TH EDITION (MARCH 2006).

STORM BRANCH CONNECTIONS TO BE 150mm dia. LAID NO STEEPER THAN 1:5 AND NO FLATTER THAN 1:150.

GULLY CONNECTIONS TO BE 150mm dia. LAID NO FLATTER THAN 1:175.

FOUL BRANCH CONNECTIONS TO BE 150mm dia. LAID NO STEEPER THAN 1:5 AND NO FLATTER THAN 1:150.

ALL PIPEWORK TO BE LAID SOFFIT TO SOFFIT UNLESS OTHERWISE STATED.

ALL PIPES 300mmØ & GREATER WITH COVER EXCEEDING 1.2m TO BE STRENGTH CLASS 120 TO BS5911-1:2002 WITH CLASS S BEDDING (20mm - 5mm GRAVEL BED AND SURROUND).
ALL CLAY PIPES 150mmØ & 225mmØ DITTO TO BE EXTRA STRENGTH WITH CLASS S BEDDING (14mm - 5mm GRAVEL BED AND SURROUND).
ALL PIPES 300mmØ & GREATER WITH COVER LESS THAN 1.2m TO BE STRENGTH CLASS 120 TO BS5911-1:2002 WITH CONCRETE PROTECTION.
ALL CLAY PIPES 150mmØ & 225mmØ DITTO TO BE EXTRA STRENGTH WITH CONCRETE PROTECTION.

PRECAST CONCRETE PRODUCTS AND IN-SITU CONCRETE TO CONTAIN A MINIMUM CLASS 3 S.R.C.

STRUCTURAL CONCRETE TO BE IN ACCORDANCE WITH BS 5328 AND NOT TO BE LESS THAN GRADE FND2 WHEN REINFORCED AND GEN3 IN ALL OTHER SITUATIONS.

CAST CONCRETE SHALL BE FINISHED TO PRODUCE A "FAIR" SURFACE WHERE EXPOSED AND SHALL HAVE A "ROUGH" FINISH IN ALL OTHER SITUATIONS. (FINISHES AS DEFINED IN CIVIL ENGINEERING SPECIFICATION FOR THE WATER INDUSTRY - 5TH EDITION).

STEELWORK SHALL BE IN ACCORDANCE WITH BS4483.

ALL MANHOLE COVERS TO BE 600x600 CLEAR OPENING IN ACCORDANCE WITH B.S. EN124 CLASS D400 AND EMBOSSED FW OR SW AS APPROPRIATE.

MANHOLES ON SEWERS 600mm DIAMETER AND GREATER TO BE FITTED WITH SAFETY CHAINS TO AWS DRG SD/S/05.

O DENOTES GULLY POSITION ON LONG SECTION.

OO DENOTES DOUBLE GULLY POSITION ON LONG SECTION.

DO NOT SCALE. USE FIGURED DIMENSIONS ONLY. CHECK ON SITE AND ALL DISCREPANCIES TO BE REPORTED TO GBM CIVILS - DESIGN & BUILD.

AMENDMENTS:

REF.	DESCRIPTION.	DATE.	BY.

CLIENT: Sovereign Homes Ltd

PROJECT: Development at 51a Hallgate Holbeach

TITLE: Road and Sewer Long Sections

SCALE: 1:500 1:50

DATE: June 2006

DRAWING No: 060702

DRAWN BY: [signature]

CHECKED BY: [signature]

SHDC
PLANNING & DEVELOPMENT
2 5 JUL 2006
Ref. 1044/06

Unit 19 Station Estate
Newbridge Hill
Louth
Lincs LN11 0JT
tel: 01507 607944