

MANHOLE COVER LEVELS APPROX (m)	97.718 - 97.622 -
FOUL WATER SEWER INVERT LEVELS (m)	892 298
SURFACE WATER SEWER INVERT LEVELS (m)	95.907
MANHOLE DIAMETER (mm)	1300 B
Road 13	F41 ch=10.
Datum: 91.000M AOD	
CHAINAGE ON CENTRELINE (m)	10.000 - 2.750 - 10.000 - 14.009 -
LEVELS ON CENTRELINE OF CARRIAGEWAY (m)	97.710 - 97.821 - 97.922 -
LEVELS ON LEFT HAND CHANNEL (m)	97.753 +
LEVELS ON RIGHT HAND CHANNEL (m)	97.891
VERTICAL DESIGN ON CARRIAGEWAY CENTRELINE	GRADIENT 2.500% (1 in 40.000) LENGTH = 11.259m
HORIZONTAL DESIGN ON CARRIAGEWAY CENTRELINE	STRAIGHT LENGTH = 11.259m
EXISTING LEVELS (m)	97,807

MANHOLE COVER LEVELS APPROX (m)	95.254 - 95.362 - 95.362 -
FOUL WATER SEWER INVERT LEVELS (m)	92.776
SURFACE WATER SEWER INVERT LEVELS (m)	93.186
MANHOLE DIAMETER (mm)	17ype B 1500 17ype B 1ype B
Road 14	S204 ch=10 F43 ch=10
Datum: 89.000M AOD	
CHAINAGE ON CENTRELINE (m)	- 0.000 - 2.750 - 12.975 - 12.975
LEVELS ON CENTRELINE OF CARRIAGEWAY (m)	95.338 - 95.269 - 95.088 - 95.088 -
LEVELS ON LEFT HAND CHANNEL (m)	95.131
LEVELS ON RIGHT HAND CHANNEL (m)	94.969
VERTICAL DESIGN ON CARRIAGEWAY CENTRELINE	GRADIENT -2.500% (-1 in 40.000) LENGTH = 10.225m
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HORIZONTAL DESIGN ON CARRIAGEWAY CENTRELINE	STRAIGHT LENGTH = 10.225m

MANHOLE COVER LEVELS APPROX (m)	93.792 -
FOUL WATER SEWER INVERT LEVELS (m)	91.021
SURFACE WATER SEWER INVERT LEVELS (m)	91.339
MANHOLE DIAMETER (mm)	1500 1500 Type B
	F44 ch=0.4
Road 15	
Datum: 87.000M AOD	
CHAINAGE ON CENTRELINE (m)	- 0.000 - 2.750 - 10.000 - 13.375
LEVELS ON CENTRELINE OF CARRIAGEWAY (m)	- 93.767 - - 93.517 - - 93.433 -
LEVELS ON LEFT HAND CHANNEL (m)	- 93.448 93.364
LEVELS ON RIGHT HAND CHANNEL (m)	93.586
VERTICAL DESIGN ON CARRIAGEWAY CENTRELINE	GRADIENT -2.500% (-1 in 40.000) LENGTH = 10.625m
HORIZONTAL DESIGN ON CARRIAGEWAY CENTRELINE	STRAIGHT LENGTH = 10.625m
EXISTING LEVELS (m)	92.318 + 92.586 - 92.586 - 92.586 - 92.586 - 92.586 - 92.586 - 92.586 - 92.587 - 92.5

MANHOLE COVER LEVELS APPROX (m)	92222 - 92118
FOUL WATER SEWER INVERT LEVELS (m)	89.170
SURFACE WATER SEWER INVERT LEVELS (m)	687.89
MANHOLE DIAMETER (mm)	1700 1700 1700 1790 B
Road 16	S008 dp-1/5
Datum: 85.000M AOD	
CHAINAGE ON CENTRELINE (m)	- 2.750 - 13.000 - 13.
LEVELS ON CENTRELINE OF CARRIAGEWAY (m)	92.129 - 92.129 - 91.948 - 91.873 -
or or www.toern tr (iii)	4 6
LEVELS ON	- 91.904
LEVELS ON LEFT HAND CHANNEL (m) LEVELS ON RIGHT HAND CHANNEL (m)	91.904 + 91.90
LEVELS ON LEFT HAND CHANNEL (m) LEVELS ON	
LEVELS ON LEFT HAND CHANNEL (m) LEVELS ON RIGHT HAND CHANNEL (m) VERTICAL DESIGN ON	

MANHOLE COVER LEVELS APPROX (m)	90.129 -
FOUL WATER SEWER INVERT LEVELS (m)	87.546
SURFACE WATER SEWER INVERT LEVELS (m)	88.332
MANHOLE DIAMETER (mm)	17)pe B 1500 1500
	F47 ch=1.2 S301 ch=1.3
Road 17	
Datum: 84.000M AOD	
CHAINAGE ON CENTRELINE (m)	10,000 - 10,000 - 13,375 - 13,375 -
LEVELS ON CENTRELINE OF CARRIAGEWAY (m)	90.171 + 90.283 + 90.368 + 90.368
LEVELS ON LEFT HAND CHANNEL (m)	90215 +
LEVELS ON RIGHT HAND CHANNEL (m)	90.215 +
VERTICAL DESIGN ON CARRIAGEWAY CENTRELINE	GRADIENT 2.50% (1 in 40.000) LENGTH = 10.625m
HORIZONTAL DESIGN ON CARRIAGEWAY CENTRELINE	STRAIGHT LENGTH = 10.625m
EXISTING LEVELS (m)	90.000000000000000000000000000000000000

STRUCTURAL DESIGN OF PIPELINES

Pipelines have been designed based on Simplified Tables of External Loads on Buried Pipelines. Pipes under Main Roads with the depth of cover related to finished construction level of road. The contractor shall ensure that overload of the pipes does not occur during construction. The following precautions shall be adopted.

- 1. Prohibit the movement of construction plant over that part of the pipeline where
- 2. Confine the passage of such plant to suitably bridged crossing points.
- 3. Temporarily deposit (or leave in place) fill over that part of the pipeline and
- adopt precautions when the fill is finally removed.
- 4. Restrict the load of vehicles to a safe load. 5. Redesign the affected part of the pipeline to carry the additional external load.

CDM REGULATIONS 2015

overloading would occur.

- 1. If you do not fully understand the risks involved during the construction of the items indicated on this drawing ask your manager, health and safety advisor or a member of the design team before proceeding.
- 2. Existing services may exist on site. The contractor shall liaise with all relevant service companies and arrange for all services to be located, marked and protected.
- 3. Drainage works may involve deep excavations and/or heavy plant/materials.
- 4. The contractor shall read and understand the Ground investigation Report and be aware of any potential variations in soil conditions over the site.
- 5. The potential for danger to the general public and site personnel exists from works in the public highway. The contractor shall liaise with the highway authority and ensure safe method of working is maintained at all times.
- 6. Existing drainage pipes may be asbestos cement or fibre reinforced pipes,or concrete pipes containing asbestos fibre. Contractor to ensure that competent, adequately trained staff are are engaged in the works, and disposal of any affected material is undertaken in line with current legislation and good practice guidelines.
- 7. The contractor is to be aware that overhead cables may cross the site.
- 8. The contractor is to be aware that works may involve working adjacent to or in existing watercourses.
- 9. Works may involve working in close proximity to an existing water main. The contractor is to ensure that this is fully located and protected during the works.

DRAINAGE PIPEWORK AND BEDDING DETAILS

- 1. All foul water sewers shall be Extra Strength Clayware to BS EN 295
- 2. All 150-300mm surface water sewers shall be Extra Strength Clayware to BS EN 295. All surface water sewers of 375mm or greater shall be Concrete Class 120 to BS 5911-1:2002.
- 3. All pipe bedding shall be Class S, (FM 2.2), unless otherwise stated.



Drawing Approval Status:-

N/A Section 104

N/A Section 38

N/A Section 278

FOR TENDER



Wormald Burrows Civil Engineering Consultants

Haverhill, Boyton Place - Phases 2-6

Drawing Description:

Longitudinal Sections - Sheet 5

Persimmon Homes (Suffolk) Ltd Persimmon House Orion Court Great Blakenham Suffolk IP6 0LW

Designed By:

1:500 @ A1 1:1000 @ A3

E3838/539/A

Drawing Number:

Client Reference:

afaq Checked By:

ISO 9001 UKAS

TJW JMW 01.04.21 11.03.21 ©This drawing is Copyright, Wormald Burrows Partnership Limited 2018.

Drawn By:

Certified by Afnor UK