



**ENGINEERING KEY**

	Adoptable S.W. Sewer		Adoptable F.W. Sewer & Manhole
	Existing S.W. Sewer		Existing S.W. Sewer Diverted Section
	S.W. Drop-Out and Invert		F.W. Drop-Out and Invert
	Adoptable Road Gully		

**FLOW CONTROL DETAILS**

MH Ref.	Specification
S13	Hydrobrake Optimum Flow Control Device Ref: HD-01E-0278-5000-2200-5000 Head=2.2m, Flow=50.0 l/s, D100=2.275m

**STREET LIGHTING KEY**

	10M TUBULAR STEEL LIGHTING COLUMN WITH GLASS EPOXY ROOT TREATMENT C/W SINGLE ARM BRACKET (1.5M OUTREACH @ 5°). TO BE INSTALLED AS PART OF SECTION 278
	6M TUBULAR STEEL LIGHTING COLUMN WITH GLASS EPOXY ROOT TREATMENT C/W SINGLE ARM BRACKET (1.5M OUTREACH @ 5°). TO BE INSTALLED AS PART OF SECTION 278
	6M TUBULAR STEEL LIGHTING COLUMN WITH GLASS EPOXY ROOT TREATMENT C/W SINGLE ARM BRACKET (1.5M OUTREACH @ 5°). TO BE INSTALLED AS PART OF SECTION 278
	6M TUBULAR STEEL LIGHTING COLUMN WITH GLASS EPOXY ROOT TREATMENT C/W SINGLE ARM BRACKET (1.5M OUTREACH @ 5°). TO BE INSTALLED AS PART OF SECTION 278
	6M TUBULAR STEEL LIGHTING COLUMN WITH GLASS EPOXY ROOT TREATMENT C/W SINGLE ARM BRACKET (1.5M OUTREACH @ 5°). TO BE INSTALLED AS PART OF SECTION 278
	6M TUBULAR STEEL LIGHTING COLUMN WITH GLASS EPOXY ROOT TREATMENT C/W SINGLE ARM BRACKET (1.5M OUTREACH @ 5°). TO BE INSTALLED AS PART OF SECTION 278

**PRIVATE STREET LIGHTING KEY**

	Private Street Lighting Column
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**MH Ref. Specification**

S13	Hydrobrake Optimum Flow Control Device Ref: HD-01E-0278-5000-2200-5000 Head=2.2m, Flow=50.0 l/s, D100=2.275m
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8m Buffer Zone to Watercourse

- WARNING TO HOUSE-PURCHASERS**  
Property Misdescription Act 1990
- Buyers are warned that this is a working drawing and is not intended to be treated as descriptive material describing in relation to any particular property or development, any of the specified matters prescribed by any Order made under the above Act. The contents of this drawing may be subject to change at any time and alterations and variations may occur during the progress of the works without revision of the drawing. Consequently the layout, form, content and dimensions of the finished construction may differ materially from those shown. Nor do the contents of this drawing constitute a contract, part of any contract or warranty.
- ENGINEERING NOTES**
1. All adoptable drainage works have been designed and are to be constructed in accordance with 'Sewers for Adoption, 6th Edition', and 'Urban Utilities Guidelines for Sewer for Adoption 6th Edition'. Where specification conflicts, the guidelines shall prevail.
  2. All pipe work shall be Extra Strength Clayware to BS 205 and BS 65 (SW pipes only).
  3. All proposed concrete pipework shall be to Class 125 in accordance with BS511 Part 1, BS EN 1916 and bear the BS Mark.
  4. All adoptable drainage to be installed in Class 5 granular surmount unless otherwise stated.
  5. All concrete manholes and soakaway pipes, concrete cover slabs and Cais to be manufactured to BS EN 1917 and BS 5911 Part 3.
  6. Rising Mains to be Black Polyethylene Pipes complying to BS EN 1224-2. Polyethylene fittings, including fusion joints, and electro-fusion fittings shall comply with BS EN 1224-2.
  7. All levels refer to Ordnance Datum. Contractor to ensure that this drawing is read in conjunction with the site specific Topographic Survey provided by Barratt Homes and the Environment Agency provide.
  8. No drainage is to be read in accordance with all other relevant drawings.
  9. The contractor shall be responsible for ensuring that any existing level levels indicated on the drawings are correct before work commences.
  10. All proposed connections to the sewer shall be 150mm unless stated otherwise.
  11. All private house drainage shall be 100mm and all drop-out connections shall be 100mm at a minimum gradient of 1:80 unless otherwise stated or as approved by the authority having jurisdiction of the relevant highway.
  12. Sewall from private surfaces shall not discharge across the highway. Gullies or channels shall be provided as applicable to prevent this.
  13. Preen crossings shall be provided at the inner tangent points of all junctions.
  14. Pipes shall be protected from concentrated loading by construction traffic during the construction period when maximum load on the pipe may be more than otherwise to design.
  15. Where Cais of the road formation level are to be carried out to determine the depth of proposed construction works, this is to be approved by the authority having jurisdiction of the road pavement.
  16. Groundwater to ensure that pit drainage be within the curbside of the pit where shown where possible and inspection cover just within hardstandings where possible.
  17. Contractor to provide Urban Utilities with sufficient notice prior to commencement of Sewer works on their inspection telephone number: 0161 851 905.
  18. Contractor to obtain all necessary Highway opening notices from the relevant Local Authority, obtain approval to work on Urban Utilities Sewerage System, obtain approval to method statement from the Environment Agency for any work affecting watercourses.
  19. All materials adopted by SBC to have a minimum 150mm SW concrete surmount to full depth.

- STREET LIGHTING NOTES**
1. Fixtures shall be factory supplied and include a compliance test certificate. Lighting Special Details are specified in sheets N2, N4 and N5. If required, maximum cable size with leader pillars shall be 'Street' conductor size.
  2. The 'N' series for Lighting Special Details shall be used in conjunction with this drawing.
  3. All new lighting columns to be approved by the authority having jurisdiction of the road pavement.
  4. A numbering system shall be obtained for all new columns from Lancashire County Council (01772 53720) upon completion. Sites that are not required to be numbered shall be marked with a '0' or '00'.
  5. The regional music company is Electricity North West. Use an Independent Connections Provider can be used with the LIC for supply point connections, location and disconnection.
  6. All supply cables to new or existing lighting columns shall be enclosed in 50/100mm internal diameter orange, non-flammable, double polyethylene service ducts, unless otherwise stated.
  7. All street lighting equipment shall be set out with the specified stipulated footpath or verge. Lighting columns shall be set at the back of the footpath with the rear facing across the road.

34	Speed roundels moved, F14 & S40 cover levels	18.06.20	CD
33	Bollards to the front of plots 59-62 amended.	19.12.19	FB
32	S55-S52 surface water diversion revised to suit Phase 2, FFL for Plots 79 & 23-24 revised	08.11.19	CD
31	S55-S52 surface water diversion revised to suit Phase 2, FFL for Plots 79 & 23-24 revised	09.10.19	CD
30	FFL for Plots 71-124 revised; Drag outs revised and notes added	12.07.19	CD
29	FFL for Plots 71-85 revised	19.06.19	CD
28	FFL for Plots 88-92 revised	04.04.19	CD
27	REVISED IN LINE WITH MTR REPLAN LAYOUT 7, ROAD 27 REVISIONS	21.11.18	CD
Z	STREET LIGHTING BOLLARDS ADDED TO PLOT 3.	29.10.18	FB
Y	STREET LIGHT LCG4 AMENDED TO LCG5.	24.05.18	FB
X	CRICKET PITCH DRAINAGE DITCH REVISED	23.05.18	CD
W	LEVELS REVISED FOR ROADS 1 & 6; FFLS REVISED FOR PLOTS 35-36, 52-57, 78-80 & 98-99; S39 MOVED; SW DIVERSION CONNECTION REVISED	24.04.18	CD
V	STREET LIGHTING AMENDED TO SIT WITHIN ADAPTABLE HIGHWAY	21.02.18	FB
U	DRAINAGE DITCH ALONG SOUTHERN BOUNDARY OF CRICKET PITCH REVISED TO LAND DRAIN	05.02.18	CD
T	DRAINAGE DITCH ALONG CRICKET PITCH DESIGNED; POND REVISED TO SUIT.	31.01.18	CD
S	PRIVATE STREET LIGHTING BOLLARDS ADDED.	12.01.18	FB
R	DRAUGHTS TO PLOTS 37-46 REVISED	05.01.18	CD
Q	TURNING HEADS FOR ROADS 3-5 REVISED	29.11.17	CD
P	FFLS PLOTS 24-28 REVISED	13.11.17	CD
N	ROAD 1 CULVERT DETAILS ADDED; TURNING HEADS REVISED IN LINE WITH VEHICLE TRACKING REQUIREMENTS	25.10.17	CD
M	FFLS REVISED TO SUIT NEW EXTERNAL LEVELS PLANS	19.09.17	CD
L	1 IN 200 YEAR WATER LEVEL NOTE ADDED TO POND; RISING MAIN SIZE REVISED; AND REDUCED DOWN TO ONE.	08.02.17	CD
K	POND WATER LEVEL AND TOP BANK LEVEL REDUCED; RISING MAIN ROUTE AND SIZE REVISED; F44 INVERT	10.01.17	FB
J	FFLS UPDATED TO SUIT EXTERNAL LEVELS; PRIVATE DRAINAGE ALSO UPDATED; F43-F19 PIPE REVISED TO OVAL; OTHER AMENDMENTS IN LINE WITH LUI COMMENTS	07.12.16	CD
H	FULL GRADIENTS REVISED; F43-F19 PIPE REVISED TO OVAL; OTHER AMENDMENTS IN LINE WITH LUI COMMENTS	21.11.16	CD
G	PRIVATE DRAINAGE ADDED.	24.10.16	FB
F	FFLS UPDATED TO SUIT EXTERNAL LEVELS.	20.10.16	FB
E	SECOND RISING MAIN & DIAMETERS ADDED; INCOMING INVERT REVISED.	18.10.16	CD
D	FFLS REVISED; NAME PLATES, TACTILE CROSSINGS AND STREET LIGHTS ADDED; F40 REMOVED; F39-F42 REVISED; DIVERSION ROUTE REVISED.	07.10.16	FB/CD
C	REVISED IN LINE WITH NEW 1:20 MANHOLE SCHEDULES; F40 ONLINE STORAGE ADDED; DIVERSION LEVELS ADDED	11.08.16	CD
B	FULL DRAINAGE DESIGN DUE TO OUTFALL CHANGES & POND PUT IN	06.04.16	CD
A	FULL DRAINAGE DESIGN DUE TO FLOW RATE CHANGES & POND REMOVED	23.03.16	CD

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Job: Chipping Lane Longridge  
Title: Engineering Layout

Design By: CD	Date: Feb 2016	Drawing Number: 459/ED/02	Rev: 34
CAD By: CD	Scale: 1:500 @ A0		