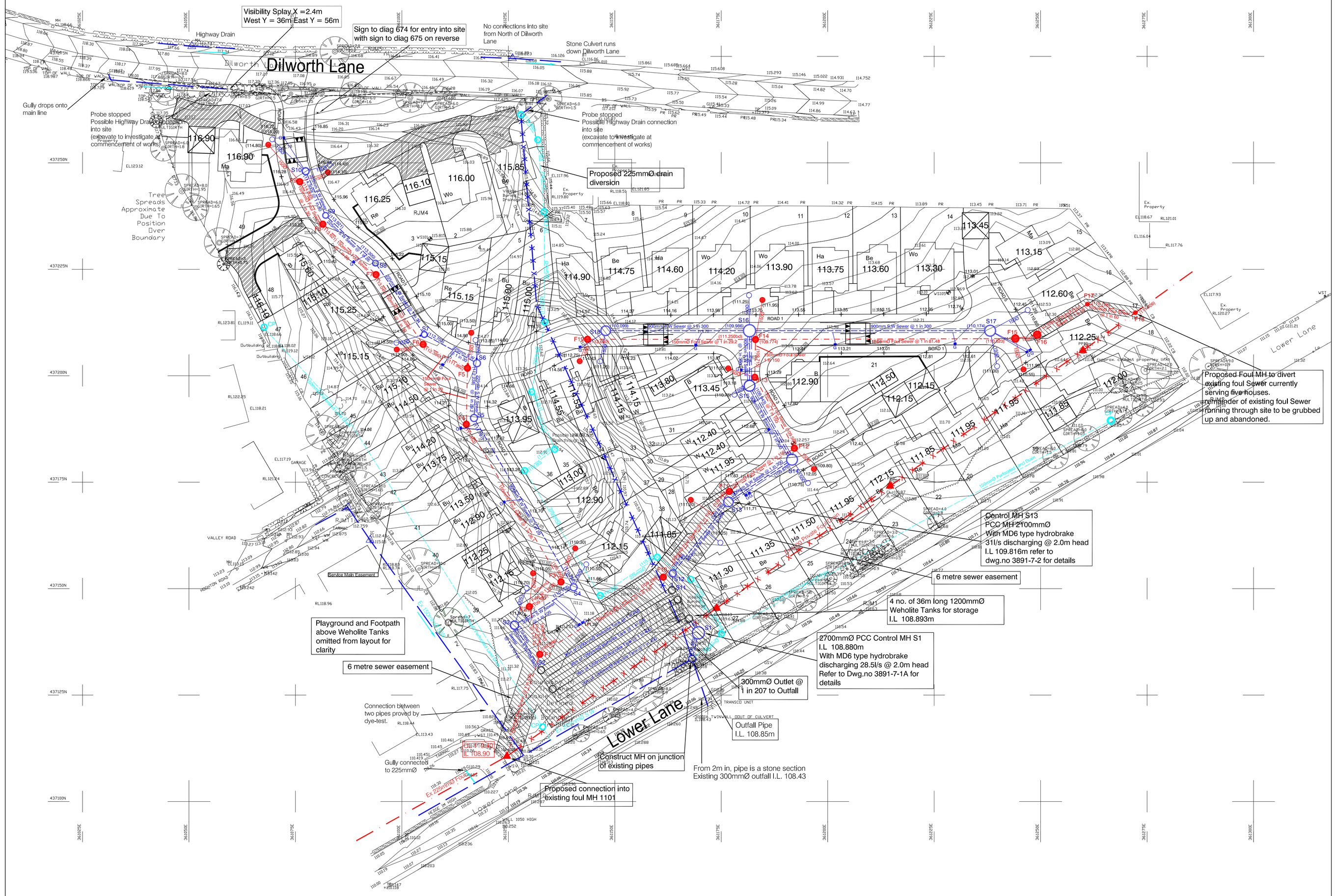


Mh No	C.L (m)	I.L (m)	Dia (m)	Notes	Mh No	C.L (m)	I.L (m)	Dia (m)	Notes
S1	111.100	108.880	2.700	Control MH	S11	111.300	108.893	1.200	Weholite Tk
S2	111.300	108.983	1.200	Weholite Tk	S12	111.200	109.734	1.500	
S3	111.900	110.004	1.800		S13	111.750	109.816	2.100	Control MH
S4	111.531	110.177	1.500		S14	112.032	109.876	2400	
S5	114.000	111.797	1.500		S15	113.072	109.943	2400	
S6	114.646	112.238	1.500		S16	113.561	109.986	2.700	
S7	114.792	112.703	1.200		S17	112.420	110.174	2.400	
S8	115.031	113.350	1.200		S18	114.248	110.099	2.100	
S9	115.681	113.921	1.200						
S10	116.181	114.300	1.500						

Mh No	C.L (m)	I.L (m)	Dia (m)	Notes	Mh No	C.L (m)	I.L (m)	Dia (m)	Notes
F1	111.100	109.068	1.200	Outfall to Ex	F11	111.750	109.465	1.200	
F2	111.810	109.523	1.200		F12	112.136	109.588	1.200	
F3	111.637	109.900	1.200		F13	113.145	109.715	1.200	
F4	113.949	111.553	1.200		F14	113.533	109.774	1.200	
F5	114.619	111.992	1.200		F15	112.106	110.523	1.500	
F6	114.779	112.386	1.200		F16	112.100	110.558	1.500	
F7	114.983	113.045	1.200		F17	112.100	110.788	0.450	Type 4
F8	115.627	113.621	1.200		F18	112.400	111.026	0.450	Type 4
F9	116.100	114.000	1.200		F19	114.336	112.600	1.200	
F10	111.200	109.296	1.200						

NOTES

1. Setting out shall be undertaken using only the information given. Distances should not be scaled from this drawing.
2. All sewers shall be constructed in accordance with Sewers for Adoption 6th Edition and United Utilities Details & Guidelines.
3. The minimum gravity pipe diameter under adoptable highways shall be 150mm
4. It is the responsibility of the Contractor to verify all information given with regards to existing services and drainage connections etc. prior to commencing the works. The rates shall include for hand dig around services where necessary. The Contractor shall adhere to the CDM Regulations at all times
5. The outsides of all sewers shall be a minimum of 1.0m from kerb lines and the outside of manholes shall be a minimum of 0.5m from kerb lines
6. Existing flows in watercourses, sewers and land drains shall be maintained at all times
7. Only trained personnel shall be permitted to enter confined spaces
8. All materials to bear the relevant B.S. Kitemark and comply fully with the specifications. All concrete & concrete products must use Sulphate resistant cement (unless the site investigation report proves that sulphate attack from soils and groundwater will not occur to withstand a class 3 condition).
9. All opening notices etc. as required under highways acts etc. are to be obtained prior to commencement of works. All works are to be inspected by L.A., NHBC or the Network Operator as applicable.
10. Where "Ultra Rib" UPVC pipes (or similar approved) are used in adoptable drainage they shall still be handled and laid in accordance with the specification and guidance issued by the High Performance Pipe Association.
11. A Class S Bed and surround must be used for such pipes. Trench backfill in highways to within 1m of highway shall, as directed by the Highway Authority be a suitable granular material all in accordance with Sewers for Adoption cl. 4.3.4.
12. Slab levels shall not be varied without reference to the Engineer for guidance

KEY

S.W. Foul

- Proposed sewer
- 1200mm dia I.C
- Land drain diversion (all manholes 1200mmØ PCC catchpit)
- 13.50 Proposed Plot Level
- Existing Foul sewer
- Existing S.W. sewer
- Proposed highway gully
- No Dig areas
- 109.370 Proposed level
- × 29.35 Existing Level
- Sewer Easement

REVISIONS

REV.	DATE	INT.	DETAILS
A	Jan 12	JCM	Drag-out I.L's amended to suit domestic drainage, plot 18 FFL raised.
B	05.03.12	JCM	drainage details updated, Gullies amended to suit crossfall
C	26.03.12	JCM	Details updated to Lancashire CC and UU's comments.
D	30.03.12	JCM	Visibility Splay shown.
E	03.05.12	JCM	Preliminary Remove

North Point

Quality Ass.

Project: Dilworth Lane Longridge

Client: Rowland Homes

Title: Highways & Drainage Layout

Original Size: A1

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Drawn: JCM | Checked By: SRG | Date: 13.01.12 | Scale: 1:500

Drawing No.: 3891/1 | Revision: E

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