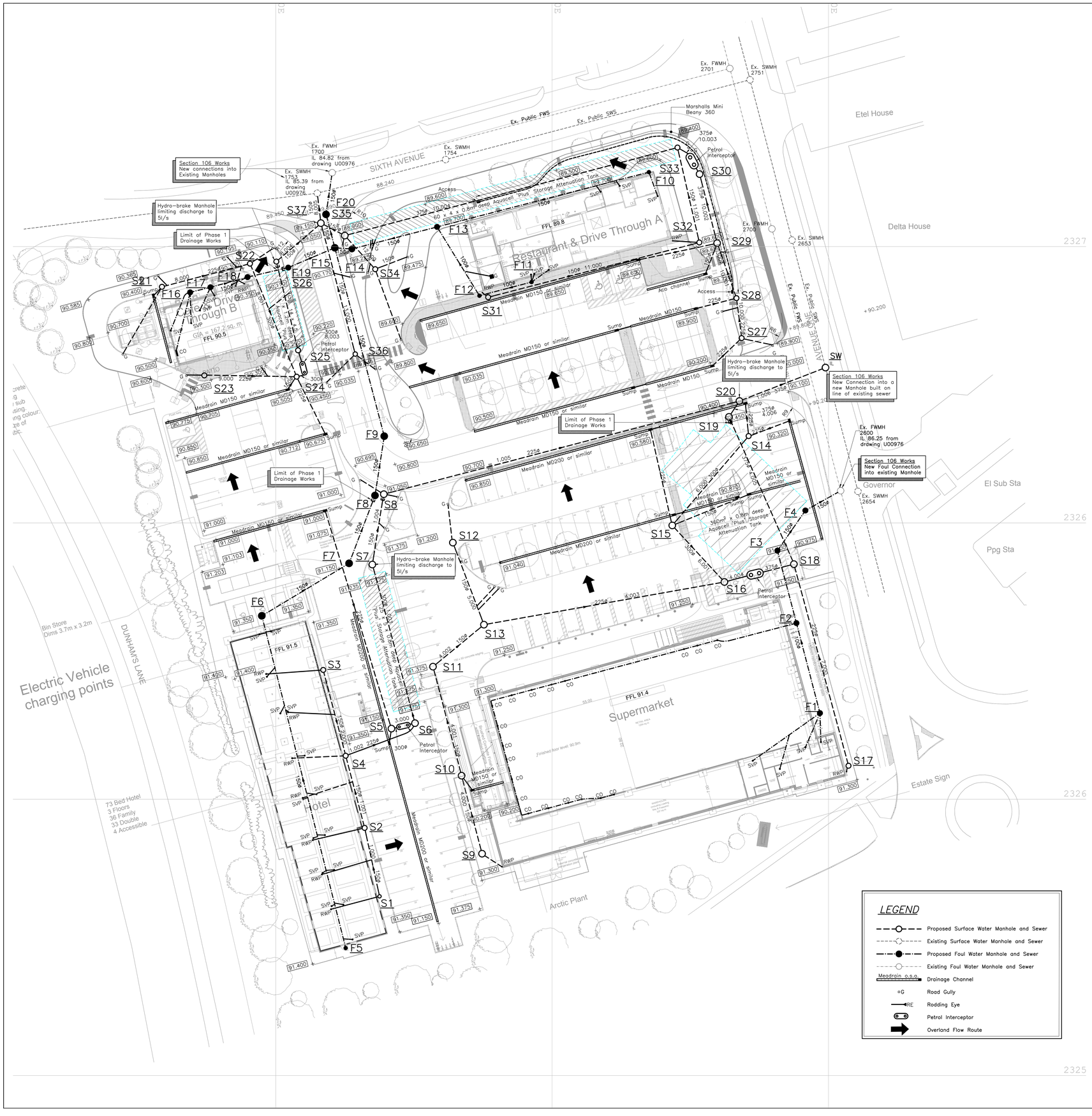

Project Title:	Letchworth Gateway
Project No.:	2016-238
Surface Water	

M.H. No.	Cover level	Invert level	Size	Type	Largest pipe	Cover type	Notes
S1	91.350	90.150	475	P.P.I.C	150	C250	
S2	91.350	90.065	600	Tegra IC	150	C250	
S3	91.350	90.150	475	P.P.I.C	150	C250	
S4	91.350	89.900	1200	C.R.	225	C250	
S5	91.220	89.720	1200	C.R.C.P.	300	D400	
S6	91.061	89.200	1200	C.R.C.P.	300	D400	
S7	91.000	89.100	1200	C.R.C.P.	150	D400	Hydrobrake Manhole limiting discharge 5l/s
S8	91.050	88.938	1200	C.R.	225	D400	
S9	91.300	90.300	1200	C.R.	225	C250	
S10	91.300	89.325	1200	C.R.	225	C250	
S11	91.375	89.202	1200	C.R.	225	D400	
S12	91.000	89.650	1200	C.R.	150	D400	
S13	91.175	89.131	1200	C.R.	225	D400	
S14	90.400	88.900	1200	C.R.	300	D400	
S15	90.600	88.794	1200	C.R.	300	D400	
S16	91.000	88.650	1350	C.R.C.P.	375	D400	
S17	91.300	90.300	1200	C.R.	225	C250	
S18	91.000	88.581	1350	C.R.C.P.	375	D400	
S19	90.400	88.484	1350	C.R.C.P.	375	D400	
S20	90.300	88.390	1350	C.R.	225	D400	Hydrobrake Manhole limiting discharge 5l/s
S21	90.400	89.100	1200	C.R.	225	D400	
S22	90.200	88.926	1200	C.R.	300	D400	
S23	90.300	88.900	1200	C.R.	225	C250	
S24	90.450	88.725	1200	C.R.C.P.	300	C250	
S25	90.300	87.350	1200	C.R.C.P.	300	D400	
S26	90.200	87.294	1200	C.R.C.P.	150	D400	Hydrobrake Manhole limiting discharge 5l/s
S27	89.900	88.600	1200	C.R.	225	C250	
S28	89.900	88.484	1200	C.R.	300	C250	
S29	89.650	88.372	1350	C.R.	375	D400	
S30	89.500	88.329	1350	C.R.C.P.	375	D400	
S31	89.650	88.350	600	Tegra IC	150	C250	
S32	89.650	88.087	1200	C.R.	150	D400	
S33	89.400	87.200	1350	C.R.C.P.	375	D400	
S34	89.400	88.100	1200	C.R.	150	D400	
S35	89.000	86.993	1350	C.R.C.P.	150	D400	
S36	90.040	88.700	1200	C.R.	150	D400	
S37	89.000	86.960	1200	C.R.	150	D400	Hydrobrake Manhole limiting discharge 5l/s

NOTES	
C.R.	Concrete ring manhole see std. detail D1 or D15.
CRCP	- Concrete Ring Catchpit see std detail D14
P.P.I.C	Polypropylene Inspection Chamber see std.detail D13
X	600 sq. Medium duty recessed, air-tight, screw-down cover and frame eg Broadstel
D400	600sq. Heavy duty, ductile iron, cover and frame to BS EN 124:D400
C	proprietary light duty cover and frame

Project Title	Letchworth Gateway
Project No.:	2016-238
Foul Water	

M.H. No.	Cover level	Invert level	Size	Type	Largest pipe	Cover type	Notes
F1	91.300	90.100	475	P.P.I.C	100	C250	
F2	91.300	89.890	600	Tegra IC	150	C250	
F3	91.100	89.420	600	Tegra IC	150	D400	
F4	90.798	89.310	600	Tegra IC	150	D400	
F5	91.400	90.200	600	Tegra IC	150	D400	
F6	91.350	89.786	600	Tegra IC	150	D400	
F7	91.150	89.663	600	Tegra IC	150	D400	
F8	91.050	89.576	600	Tegra IC	150	D400	
F9	90.657	88.503	600	Tegra IC	150	D400	
F10	89.700	88.500	475	P.P.I.C	150	C250	
F11	89.656	88.456	475	P.P.I.C	100	C250	
F12	89.656	88.358	600	Tegra IC	100	C250	
F13	89.700	88.236	600	Tegra IC	150	D400	
F14	89.085	87.830	600	Tegra IC	150	D400	
F15	89.050	87.850	475	P.P.I.C	150	D400	
F16	90.350	89.700	475	P.P.I.C	150	C250	
F17	90.350	89.675	475	P.P.I.C	150	C250	
F18	90.350	89.628	475	P.P.I.C	150	C250	
F19	90.160	89.577	475	P.P.I.C	150	D400	
F20	89.150	88.226	475	P.P.I.C	150	D400	

NOTES	
C.R.	- Concrete ring manhole see std. detail D1 or D15.
P.P.I.C	- Polypropylene Inspection Chamber see std.detail D13
A.C.	- Plastic Access Chamber
Tegra	- Tegra Inspection Chamber see std detail D49
X	600 sq. Medium duty recessed, air-tight, screw-down cover and frame eg Broadstel
D400	- 600sq. Heavy duty, ductile iron, cover and frame to BS EN 124:D400
C250	- 600sq Medium duty, ductile iron, cover and frame to BS EN 124:C250
B125	- 600sq Light duty, ductile iron, cover and frame to BS EN 124:B125
C	proprietary light duty cover and frame

LEGEND

- Proposed Surface Water Manhole and Sewer
- Existing Surface Water Manhole and Sewer
- Proposed Foul Water Manhole and Sewer
- Existing Foul Water Manhole and Sewer
- Meadrain o.s.g. — Drainage Channel
- ▫G — Road Gully
- RE — Rodding Eye
- Petrol Interceptor
- Overland Flow Route

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NOTES:

1. Grate covers to all channel drains to be Class D400 D.I.
2. All Manhole/Catchpit covers and frames to be 675 x 675 clear opening, Class D400 D.I.
3. All pipes to be 100ømm unless otherwise stated.
4. All interceptors to be by-pass Class 1 as follows:
   - McDonalds Conder Ref: CNSB10s/21
   - Aldi Conder Ref: CNSB10s/21
   - Travelodge Conder Ref: CNSB4.5s/21
   - Costa Coffee Conder Ref: CNSB4.5s/21
5. Attenuation Storage Construction: If an an alternative to 'Aquacell Plus' cellular units is considered the units must be capable of supporting 44T HGV loading and at least 1m of fill/road construction.
6. Construction of Manholes, Catchpits and pipe laying shall generally comply with the typical Construction details in 'Sewers for Adoption 7th Edition' as the benchmark standard or tenant-specific requirement, whichever is the more onerous.
7. For tenant-specific requirements, refer to the Performance Specification No. 2016-238-SP-0100.
8. All hydro-brakes to limit discharge to a maximum of 5l/s.

Note:

McDonalds RWP & SVP locations to be confirmed

Aldi RWP locations are indicative

NOLAN ASSOCIATES

PRELIMINARY DRAWING

NOT TO BE USED FOR CONSTRUCTION

REV	DESCRIPTION	BY	CHKD	DATE
P3	Foul water updated	CH	JJG	16.02.18
P2	Surface water updated and manhole schedule added	CH	JJG	15.02.18
T2	Pipe sizes amended as noted	S.J.	J.K.	24.05.17
T1	Tender Issue	S.J.	J.K.	05.05.17
P1	Preliminary	S.J.	J.K.	03.05.17

Letchworth Gateway

Drainage Layout

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Drawn by	Date	Plot Date	Scale
S.J.	30.03.17	15.02.18	1:250@A0
Checked by	Project No		Dwg No
	2016-238		101 P3