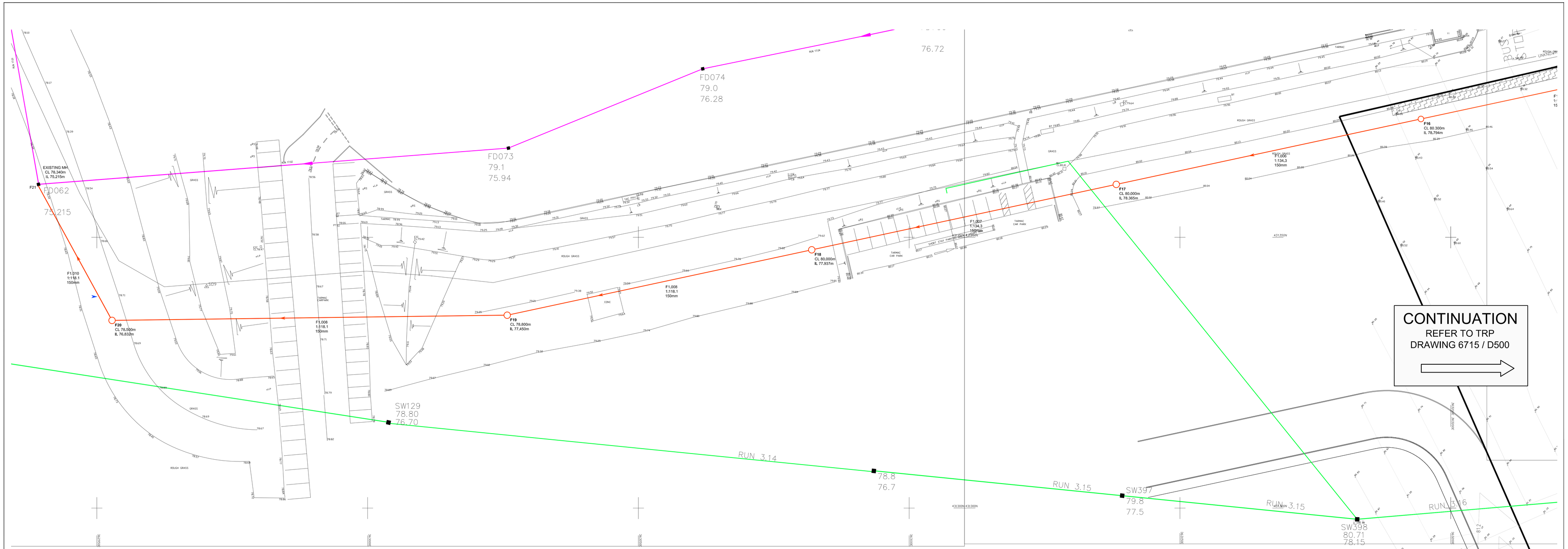

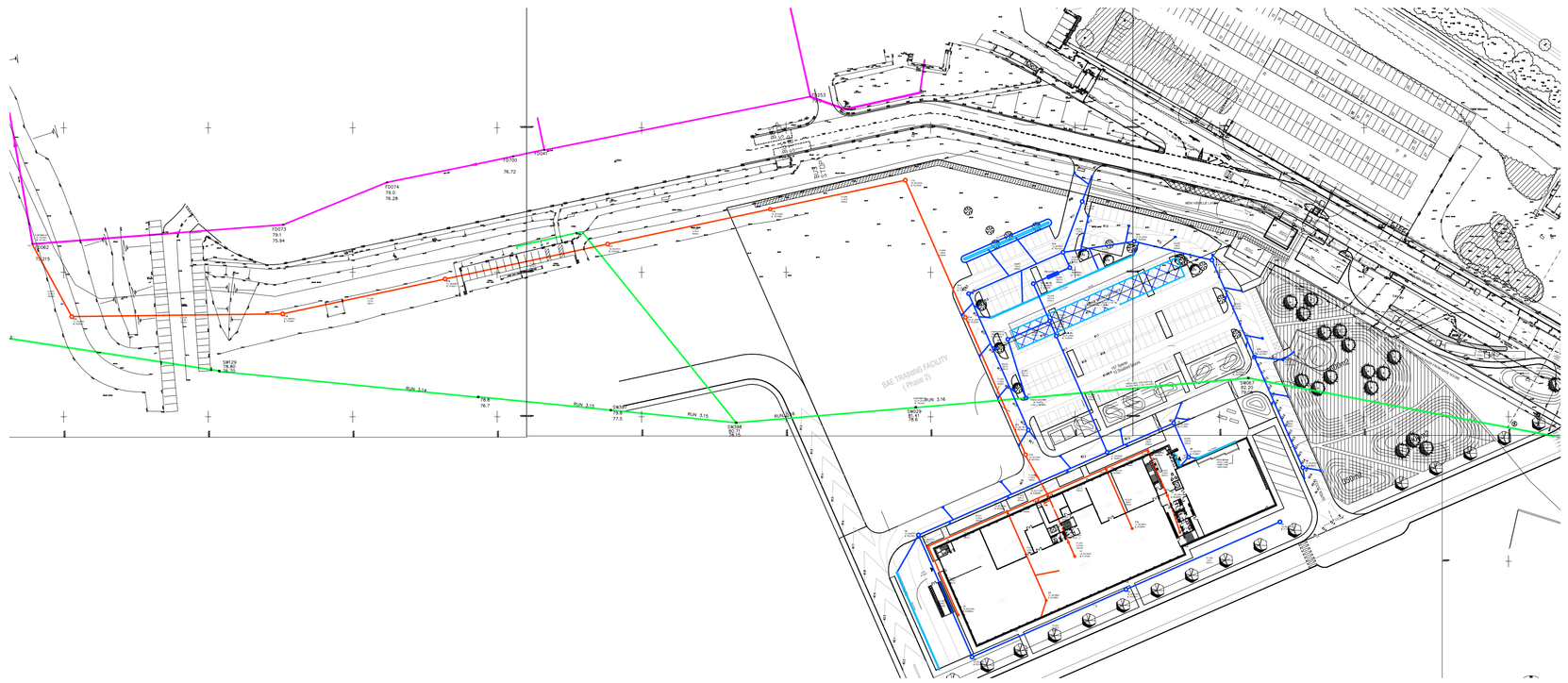

KEY PLAN
SCALE 1:1000

FOUL MANHOLE SCHEDULE										
Manhole Name	Cover Level (m)	MH Depth (m)	Manhole Diam.,L*W (mm)	Pipe Out PN	Pipe Out Invert Level (m)	Pipe Out Diameter (mm)	Pipes In PN	Pipes In Invert Level (m)	Pipes In Diameter (mm)	Pipes In Backdrop (mm)
F1	82.350	1.350	600	F1.000	81.000	150				
F2	82.350	1.389	600	F1.001	80.961	150	F1.000	80.961	150	
F3	82.315	1.350	1200	F2.000	80.965	150				
F4	82.315	1.544	1200	F2.001	80.771	150	F2.000	80.771	150	
F5	82.350	1.350	600	F3.000	81.000	150				
F6	82.315	1.767	1200	F2.002	80.548	150	F2.001	80.548	150	
							F3.000	80.750	150	201
F7	82.350	1.350	600	F4.000	81.000	150				
F8	82.350	1.450	600	F4.001	80.900	150	F4.000	80.900	150	
F9	82.315	1.544	1200	F4.002	80.771	150	F4.001	80.771	150	
F10	82.350	1.350	600	F5.000	81.000	150				
F11	82.315	1.662	1200	F4.003	80.653	150	F4.002	80.653	150	
							F5.000	80.653	150	
F12	82.315	1.880	1200	F1.002	80.435	150	F1.001	80.824	150	389
							F2.002	80.435	150	
							F4.003	80.435	150	
F13	82.100	1.781	1200	F1.003	80.319	150	F1.002	80.319	150	
F14	81.380	1.448	1200	F1.004	79.932	150	F1.003	79.932	150	
F15	80.500	1.350	1200	F1.005	79.150	150	F1.004	79.150	150	
F16	80.300	1.506	1200	F1.006	78.794	150	F1.005	78.794	150	
F17	80.000	1.635	1200	F1.007	78.365	150	F1.006	78.365	150	
F18	80.000	2.063	1200	F1.008	77.937	150	F1.007	77.937	150	
F19	78.800	1.350	1200	F1.009	77.450	150	F1.008	77.450	150	
F20	78.500	1.668	1200	F1.010	76.832	150	F1.009	76.832	150	
F21	78.500	1.907	0		OUTFALL		F1.010	76.593	150	

SURFACE WATER MANHOLE SCHEDULE										
Manhole Name	Cover Level (m)	MH Depth (m)	Manhole Diam.,L*W (mm)	Pipe Out PN	Pipe Out Invert Level (m)	Pipe Out Diameter (mm)	Pipes In PN	Pipes In Invert Level (m)	Pipes In Diameter (mm)	Pipes In Backdrop (mm)
S1	82.900	1.350	1200	S1.000	81.550	225				
S2	82.315	1.465	1200	S1.001	80.850	300	S1.000	80.925	225	
S3	82.315	1.812	1200	S1.002	80.503	300	S1.001	80.503	300	
S4	81.975	1.746	1200	S1.003	80.229	300	S1.002	80.229	300	
S5	82.315	1.083	1200	S2.000	81.232	150				
S6	82.380	1.350	1200	S2.001	81.030	225	S2.000	81.105	150	
S7	82.200	2.345	1350	S1.004	79.855	375	S1.003	79.930	300	
							S2.001	80.781	225	776
S8	81.590	1.937	1350	S1.005	79.653	375	S1.004	79.653	375	
S9	83.650	1.350	1200	S3.000	82.300	150				
S10	82.200	1.425	1200	S3.001	80.775	225	S3.000	80.850	150	
S11	81.650	1.375	1200	S3.002	80.275	225	S3.001	80.275	225	
S12	81.390	1.500	1200	S3.003	79.890	300	S3.002	79.965	225	
S13	82.190	1.350	1200	S4.000	80.840	150				
S14	81.300	1.425	1200	S4.001	79.875	225	S4.000	79.950	150	
S15	81.100	1.350	1200	S5.000	79.750	150				
S16	81.300	1.886	1200	S3.004	79.414	300	S3.003	79.729	300	315
							S4.001	79.489	225	
							S5.000	79.564	150	
S17	81.350	1.962	1200	S3.005	79.388	300	S3.004	79.388	300	
S18	81.350	2.093	1350	S3.006	79.257	375	S3.005	79.332	300	
S19	81.540	2.419	1350	S1.006	79.121	450	S1.005	79.632	375	436
							S3.006	79.196	375	
S20	81.540	2.461	1350	S1.007	79.079	150	S1.006	79.079	450	
S	81.850	2.850	1200		OUTFALL		S1.007	79.000	150	

LEGEND

- FOUL DRAIN EXTG
- SURFACE WATER EXTG
- FOUL DRAIN PROPOSED
- SURFACE WATER PROPOSED

Notes

1. This Drawing is to be read in conjunction with all relevant TRP, Architects, Service Engineers and Subcontractor drawings.
2. Review all drawings and report any discrepancies to TRP Consulting prior to commencement.
3. Do not scale from this drawing. All dimensions and levels including any abutment to existing structures to be checked on site prior to commencement.
4. Work from figured dimensions only.
5. No deviation from details shown on this drawing is allowed without TRP Consultings prior permission in writing.
6. All work is to be carried out in accordance with the relevant specifications Issued by TRP Consulting, British Standard Codes of Practice, Statutory requirements and the Contract Documents.
7. All drainage to be installed in accordance with the requirements set out in BS 8301, BS 8005 and the Building Regulations unless noted otherwise.
8. The manhole cover levels shown on the drawing are approximate. Final cover levels are to be adjusted to suit finished paving levels
9. The falls shown on pipe runs are indicative and pipes are to be installed to the invert levels shown on the manhole schedule
10. All pipes are to be laid with soffits level unless noted otherwise All gully connections to be 150mm diameter at a fall of 1 in 80
11. Foul branch connections to ground floor connections to be 100mm diameter at a fall of 1 in 40 unless noted otherwise
12. All sump units to linear drainage channels to be fitted with foul air traps.
13. All surface water gullies to be trapped
14. All drains to be set out to give a minimum clearance of 1.0m to kerb lines
15. All pipes from 100-300mm diameter to be Hepworth SuperSleeve or equivalent
16. All pipes above 300mm diameter to be precast concrete to BS 5911-1 Class 120
17. All gullies to be precast concrete to Bs 5911-230
18. All manholes to be precast concrete to BS 5911-3
19. Manhole covers in roads and hard paved areas to be Grade D400 double triangle
20. Gully gratings to be Grade D400
21. Drainage channels in car parks to be fitted with Heelguard ductile iron gratings Grade C250
22. All Internal manhole covers to be double sealed, lockable and recessed to accept floor finishes where applicable.

REVISION STATUS

S - Information issued for feasibility, scheme or tender purposes only.

C - Information issued for Construction

Note - Only C Revision Drawings to be used for Construction.

Rev	Description	Date / By
S5	Post Tender Issue - RFC 12,18, 21, 23 & 25	27-02-15 DC
S4	Issued for Tender	19-12-14 DC
S3	Legend and Key plan added	24-11-14 WC
S2	MH's renumbered	07-11-14 DC
S1	Issued for Information	04-11-14 DC

Project
BAE SAMLESBURY TRAINING CENTRE

Client
BAE SYSTEMS

Drawing Title
DRAINAGE LAYOUT
SHEET 2 OF 2

TRP Consulting
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Drawn By	Date	Scale	Checked
DC	NOV 2014	1:250	TR

Project No.	Drawing No.	Revision
6715	D502	S5