



PHASE: 1								
MH No.	MANHOLE DIMENSION (mm)	MANHOLE TYPE	COVER TYPE	COVER LEVEL (m)	INVERT LEVEL (m)	DEPTH TO SOFFIT (m)	EASTING (m)	NORTHING (m)
S1	1500Ø	Type B	D400	175.324	173.200	1.824	401931.527	342794.479
S2	1500Ø	Type B	D400	175.012	172.780	1.932	401936.697	342774.805
S3	1500Ø	Type B	D400	173.942	171.770	1.872	401885.986	342761.037
S4	1500Ø	Type C	D400	174.334	172.690	1.344	401868.054	342791.474
S5	1500Ø	Type B	D400	174.011	172.140	1.571	401870.523	342771.470
S6	1500Ø	Type B	D400	173.583	171.500	1.783	401874.963	342756.333
S7	2100Ø	Type C	D400	170.243	168.770	1.173	401805.429	342782.742
S8	2100Ø	Type B	D400	170.677	168.210	2.167	401816.356	342740.251
S9	1500Ø	Type B	D400	169.426	166.780	2.346	401792.219	342733.663
S10	1800Ø	Type B	D400	168.639	165.500	2.689	401776.203	342737.725
S11	---	HEADWALL	D400	167.000	164.670	1.880	401765.551	342730.357
S12	1500Ø	Type B	D400	167.454	165.047	2.106	401750.646	342762.113
S13	1800Ø	Type B	D400	167.783	165.000	2.482	401750.371	342754.409
S14	1500Ø	Type B	D400	167.635	164.940	2.395	401740.265	342754.082
S15	---	HEADWALL	D400	166.402	164.660	1.292	401738.441	342726.968
S16	---	HEADWALL	D400	166.402	164.605	1.497	401745.164	342718.739
S17	2400Ø	Type B	D400	166.402	164.555	1.547	401739.723	342713.533
S18	---	HEADWALL	D400	165.000	164.500	0.200	401729.959	342705.529
F1	1200Ø	Type B	D400	175.399	173.650	1.599	401928.553	342796.384
F2	1500Ø	Type B	D400	174.957	173.300	1.507	401933.934	342776.708
F3	1200Ø	Unknown	D400	173.871	172.450	1.271	401884.189	342762.815
F4	1500Ø	Type C	D400	173.480	172.000	1.330	401871.742	342757.916
F5	1500Ø	Type B	D400	170.825	167.940	2.735	401818.813	342743.155
F6	1200Ø	Type B	D400	169.331	167.120	2.061	401789.979	342735.865
F7	1200Ø	Type B	D400	168.471	165.790	2.531	401773.100	342741.219
F8	1200Ø	Type A	D400	167.966	164.770	3.046	401759.769	342750.749
F9	1500Ø	Type A	D400	167.740	164.200	3.390	401748.210	342752.233
F10	1200Ø	Type A	D400	167.000	163.750	3.100	401747.917	342744.857
F11	1350Ø	Type C	D400	174.327	172.930	1.247	401865.624	342790.589
F12	1350Ø	Type C	D400	174.094	172.530	1.414	401867.389	342773.725
F13	1350Ø	Type C	D400	170.261	168.740	1.371	401807.230	342786.815

NOTES:

1. THIS DRAWING SHOULD BE READ IN RELATION TO THE SUBJECT OF THE TITLE ONLY. OTHER INFORMATION SHOWN ON THE DRAWING IS TO BE CONSIDERED INDICATIVE ONLY. REFERENCE SHOULD BE MADE TO APPROPRIATE DRAWINGS SERIES/SPECIFICATIONS FOR OTHER INFORMATION.
2. ALL DIMENSIONS ARE IN METRES UNLESS SPECIFIED OTHERWISE.
3. UNTIL TECHNICAL APPROVAL HAS BEEN OBTAINED FROM STAFFORDSHIRE COUNTY COUNCIL, IT SHOULD BE UNDERSTOOD THAT ALL DRAWINGS ARE PRELIMINARY, SUBJECT TO CHANGE AND NOT FOR CONSTRUCTION. SHOULD THE CONTRACTOR COMMENCE SITE WORK PRIOR TO APPROVAL BEING GIVEN, IT IS ENTIRELY AT THEIR OWN RISK.
4. PRESENCE OF STATUTORY UNDERTAKERS EQUIPMENT IN THE HIGHWAY SHOULD BE VERIFIED BY THE CONTRACTOR ON SITE PRIOR TO STARTING ANY WORKS. THE CONTRACTOR SHOULD CONFIRM THE LOCATION OF ALL STATS PLANT BY HAND DUG TRIAL TRENCHES PRIOR TO COMMENCING ANY WORKS. ALLOWANCE FOR THE PRESENCE OF ALL STATS APPROPRIATE PROTECTION / DIVERSION MEASURES IS TO BE PUT IN PLACE BY THE CONTRACTOR (UNLESS STATED OTHERWISE) WHERE STATS EQUIPMENT ARE FOUND TO BE WITHIN THE AREA OF HIGHWAY WORKS. NECESSARY DIVERSION/PROTECTION REQUIREMENTS TO BE AGREED WITH SERVICE PROVIDER.
5. THE CHAMBER SIZE OF MANHOLES WITH MORE THAN ONE CONNECTION IN THEM MAY NEED TO BE INCREASED AN INCREMENT TO ACCOMMODATE THE CONNECTIONS AND BENDS.
6. UNITED UTILITIES POLICY IS THAT TYPE 'C' BRICK MANHOLES AND 1050MM DIA MANHOLE RINGS ARE NOT PREFERRED. INSTEAD IT IS PREFERRED THAT YOU USE A TYPE 'B' MANHOLE WITH 1200MM DIA OR 1500MM DIA RINGS. WITH THE OPENING SITED OVER THE CHANNEL WHERE DEPTH OF COVER TO PIPE SOFFIT IS 1 - 1.5M.
7. ADOPTABLE PLASTIC SEWER PIPES TO BE BSI KITEMARKED (CERTIFIED TO WIS 4-35-01 AND BS EN 13476) ADOPTABLE PLASTIC SEWER PIPES TO BE LAID IN MAXIMUM 3 METRE LENGTHS UNLESS THERE IS A SPECIFIC OPERATIONAL NEED TO LAY LONGER LENGTHS. PLASTIC CHANNEL SECTIONS IN MANHOLES ARE NOT ACCEPTABLE AND UNITED UTILITIES WOULD PREFER CLAYWARE CHANNEL IN MANHOLES. WE HAVE FOUND THAT PLASTIC CHANNELS ARE DIFFICULT TO SET IN CONCRETE BECAUSE THEY FLOAT AND A SATISFACTORY FINISH CANNOT BE OBTAINED ON THE BENCHING.
8. THE MINIMUM CRUSHING STRENGTH FOR CLAY PIPES SHOULD BE AS FOLLOWS - 100MM DIA, 40KNM, 150MM DIA, 40KNM, 225MM DIA, 45KNM AND 300MM DIA, 72KNM. THE MINIMUM CRUSHING STRENGTH FOR CONCRETE PIPES SHOULD BE - (CLASS 120 TO EN 1916/BS5911-1 2002). PLASTIC PIPES SHOULD CONFORM TO WIS 4-35-01 AND BS EN13476
9. WHERE A B125 COVER AND FRAME HAS BEEN APPROVED, THIS MUST NOT BE COATED IN PLASTIC AND MUST HAVE LIFTING EYES SUITABLY SIZED TO ACCOMMODATE STANDARD LIFTING KEYS. SCREW DOWN COVERS ARE NOT ACCEPTABLE.
10. ALL ANCILLARY CHAMBERS (FLOW CONTROL, NRVS, CATCHPIPS ETC.) LOCATED OUTSIDE OF THE HIGHWAY REQUIRE IMPERMEABLE HARDSTANDING SURROUNDING 150MM ON ALL SIDES MEASURED FROM THE EDGE OF THE OPENING.
11. ALL LATERAL CONNECTIONS WILL BE MADE AT SOFFIT LEVEL TO THE MAIN CHANNEL. FLOW CONTROL CONNECTIONS ARE MADE INVERT TO INVERT.
12. FOR LAYOUT AND MORE INFORMATION REGARDING DRAINAGE LAYOUT, PLEASE REFER TO DRAWINGS 784-B076708-TTE-HDG-00-DR-CH-050000.

PRELIMINARY ISSUE