

NOTES:

- THIS DRAWING IS BASED UPON:
 - HW SITE LAYOUT (22/01/15) (FORTEM AMEND);
 - HW/COOK AND FOOD SITE SURVEY DRAWING 51/07/19 DATED OCTOBER 2024;
 - YORKSHIRE WATER RECORDS;
 - ORDNANCE SURVEY MAPS.
- THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH FORTEM SECTION 104 LAYOUT DRAWING 1223 - 102 AND SECTION 38 LAYOUT DRAWING 1223 - 130.

ADOPTABLE DRAINAGE NOTES:

(THESE NOTES APPLY TO ALL ADOPTABLE DRAINAGE WORKS)

ALL ADOPTABLE SEWER WORKS AND MATERIAL TO BE IN ACCORDANCE WITH DESIGN AND CONSTRUCTION GUIDANCE (DCG) CODE FOR ADOPTION, THE RELEVANT BRITISH (EUROPEAN AND THE ADOPTING WATER AUTHORITIES) STANDARDS (REQUIREMENTS) ADDITIONAL TO THE MECHANICAL AND ELECTRICAL SPECIFICATION (M&E) STANDARD.

MANHOLE COVERS MUST HAVE A CLEAR OPENING OF 675mm AND SHALL BE CLASS D400 TO BS EN 124 WITH 150mm DEEP FRAMES IN HIGHWAYS.

THE ADOPTING WATER AUTHORITY IS NOT OBLIGED TO ACCEPT FILTER DRAIN (LAND DRAINAGE) RUN-OFF INTO THE PUBLIC SEWER NETWORK OR ADOPTABLE DRAINAGE SYSTEM DIRECTLY OR INDIRECTLY. AN ALTERNATIVE METHOD OF DISPOSAL OF THE LAND DRAINAGE RUN-OFF MUST THEREFORE BE AGREED AND YOU WILL HAVE TO LIAISE WITH THE LOCAL AUTHORITY, LAND DRAINAGE SECTION WITH REGARD TO THE DISPOSAL OF THE FILTER DRAIN (LAND DRAINAGE) RUN-OFF.

COVER SLABS MUST CARRY THE 80 KITEMARK OR WILL BE REJECTED BY THE ADOPTING WATER AUTHORITY. WHERE THE CLEAR OPENING OF THE FRAMEWORK PRODUCT IS DIFFERENT TO THAT OF THE COVER AND FRAME A LOADING BEARING SLAB SHOULD BE FITTED ABOVE THE COVER SLAB TO BRING THE SIZE DOWN TO 675mm x 675mm FOR THE SPECIFIED COVER SIZE. PLEASE REFER TO CONCRETE PIPE SYSTEMS ASSOCIATION (CPSA) TECHNICAL BULLETIN ISSUED AUTUMN 2004 FOR KITEMARKED COVER SLAB OPENING SIZES.

SULPHATE RESISTANT CEMENT (C30/37) AND PRECAST CONCRETE PRODUCTS MUST BE USED ON ALL ADOPTABLE REPORT PROVIDED PROVING THAT SUCH PRECAUTIONS ARE NOT NECESSARY.

THE ADOPTABLE SEWERS SHOULD BE A MINIMUM OF 1m AND MANHOLES 0.5m FROM KERB FACES AND SERVICE MARGINS.

SEWERS MUST HAVE A METRES CLEARANCE FROM TREES AND HEDGES.

SEWERS TO BE Laid IN CLASS 'S' BEDDING (150mm GRANULAR BED AND SURROUND), WHERE 80% OF COVER TO TOP OF THE SEWER IS LESS THAN 2m IN HIGHWAYS AND 100% IS LESS THAN 1000mm IN HOME (KITCHEN ACCESS AREAS) THEN CONCRETE SLAB SHOULD BE PROVIDED ABOVE GRANULAR BED AND SURROUND.

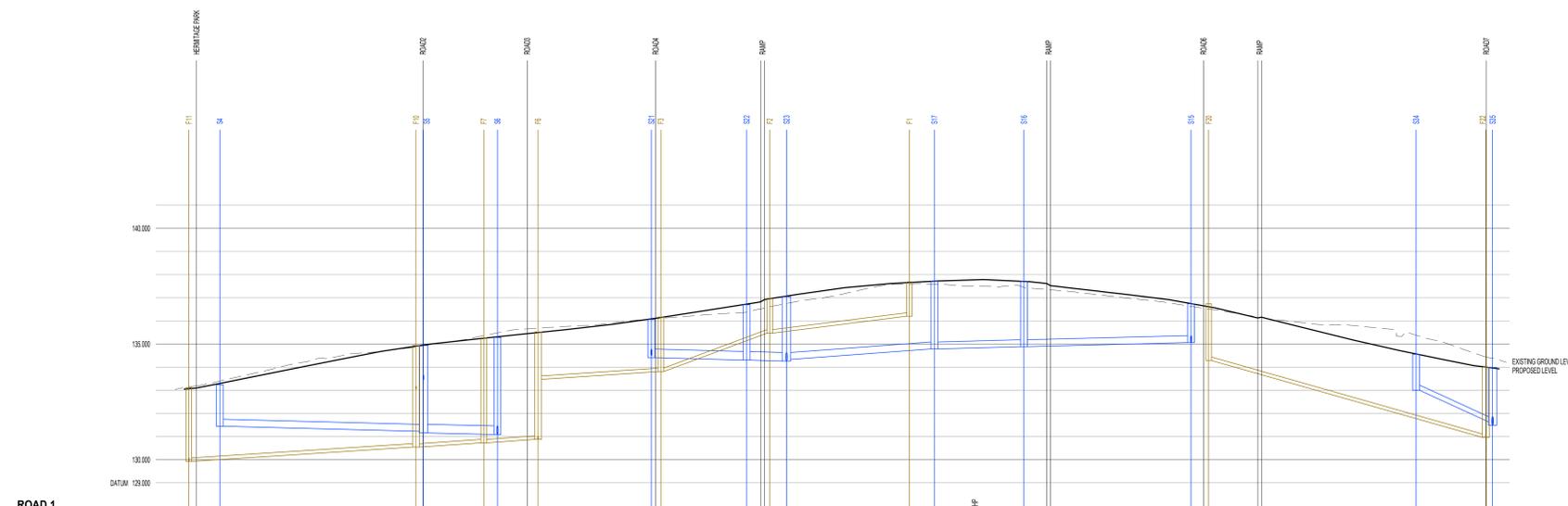
BEDDING AND BACKFILL MATERIAL TO CONFORM TO THE REQUIREMENT OF WATER INDUSTRY SPECIFICATION 4:04:02 (TABLE A4)

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.

THE MINIMUM CRUSHING STRENGTH FOR CLAY PIPES SHOULD BE AS FOLLOWS: 100mm DIA 40N/m², 150mm DIA 40N/m², 225mm DIA 45N/m² AND 300mm DIA 70N/m². THE MINIMUM CRUSHING STRENGTH FOR CONCRETE PIPES SHOULD BE: CLASS 120 TO DIA 1000mm x 1.000. PLASTIC PIPES SHOULD CONFORM TO BS 4535 AND BS EN 13476.

WHERE BRICK COVER AND FRAMES HAVE BEEN APPROVED, THIS MUST NOT BE COATED IN PLASTIC AND MUST HAVE LIFTING EYES SUFFICIENTLY SIZED TO ACCOMMODATE STANDARD LIFTING KEYS. SCREW DOWN COVERS ARE NOT ACCEPTABLE.

THE CLEARANCE OF THE CROSSOVER POINTS (MIN 300mm) BETWEEN THE SURFACE WATER SEWERS, FLOOD WATER SEWERS, RISING MAINS AND OTHER SERVICES SHOULD BE SUFFICIENT CLEARANCE TO PROVIDE 150mm GRANULAR BED AND SURROUND AROUND BOTH PIPES. THERE SHOULD BE ENOUGH CLEARANCE TO ACCOMMODATE THE BEDDING FOR BOTH PIPES. APPROX. 300mm F CROSSOVER IS NEAR THE ROCKIER THEN THE CLEARANCE NEEDED MAY BE INCREASED.



CHANGING	0.000	5.64	11.17	16.70	22.23	27.76	33.29	38.82	44.35	49.88	55.41	60.94	66.47	72.00	77.53	83.06	88.59	94.12	99.65	105.18	110.71	116.24	121.77	127.30	132.83	138.36	143.89	149.42	154.95	160.48	166.01	171.54	177.07	182.60	188.13	193.66	199.19	204.72	210.25	215.78	221.31	226.84	232.37	237.90	243.43	248.96	254.49	260.02	265.55	271.08	276.61	282.14	287.67	293.20	298.73	304.26	309.79	315.32	320.85	326.38	331.91	337.44	342.97	348.50	354.03	359.56	365.09	370.62	376.15	381.68	387.21	392.74	398.27	403.80	409.33	414.86	420.39	425.92	431.45	436.98	442.51	448.04	453.57	459.10	464.63	470.16	475.69	481.22	486.75	492.28	497.81	503.34	508.87	514.40	519.93	525.46	530.99	536.52	542.05	547.58	553.11	558.64	564.17	569.70	575.23	580.76	586.29	591.82	597.35	602.88	608.41	613.94	619.47	625.00	630.53	636.06	641.59	647.12	652.65	658.18	663.71	669.24	674.77	680.30	685.83	691.36	696.89	702.42	707.95	713.48	719.01	724.54	730.07	735.60	741.13	746.66	752.19	757.72	763.25	768.78	774.31	779.84	785.37	790.90	796.43	801.96	807.49	813.02	818.55	824.08	829.61	835.14	840.67	846.20	851.73	857.26	862.79	868.32	873.85	879.38	884.91	890.44	895.97	901.50	907.03	912.56	918.09	923.62	929.15	934.68	940.21	945.74	951.27	956.80	962.33	967.86	973.39	978.92	984.45	989.98	995.51	1001.04	1006.57	1012.10	1017.63	1023.16	1028.69	1034.22	1039.75	1045.28	1050.81	1056.34	1061.87	1067.40	1072.93	1078.46	1083.99	1089.52	1095.05	1100.58	1106.11	1111.64	1117.17	1122.70	1128.23	1133.76	1139.29	1144.82	1150.35	1155.88	1161.41	1166.94	1172.47	1178.00	1183.53	1189.06	1194.59	1200.12	1205.65	1211.18	1216.71	1222.24	1227.77	1233.30	1238.83	1244.36	1249.89	1255.42	1260.95	1266.48	1272.01	1277.54	1283.07	1288.60	1294.13	1299.66	1305.19	1310.72	1316.25	1321.78	1327.31	1332.84	1338.37	1343.90	1349.43	1354.96	1360.49	1366.02	1371.55	1377.08	1382.61	1388.14	1393.67	1399.20	1404.73	1410.26	1415.79	1421.32	1426.85	1432.38	1437.91	1443.44	1448.97	1454.50	1460.03	1465.56	1471.09	1476.62	1482.15	1487.68	1493.21	1498.74	1504.27	1509.80	1515.33	1520.86	1526.39	1531.92	1537.45	1542.98	1548.51	1554.04	1559.57	1565.10	1570.63	1576.16	1581.69	1587.22	1592.75	1598.28	1603.81	1609.34	1614.87	1620.40	1625.93	1631.46	1636.99	1642.52	1648.05	1653.58	1659.11	1664.64	1670.17	1675.70	1681.23	1686.76	1692.29	1697.82	1703.35	1708.88	1714.41	1719.94	1725.47	1731.00	1736.53	1742.06	1747.59	1753.12	1758.65	1764.18	1769.71	1775.24	1780.77	1786.30	1791.83	1797.36	1802.89	1808.42	1813.95	1819.48	1825.01	1830.54	1836.07	1841.60	1847.13	1852.66	1858.19	1863.72	1869.25	1874.78	1880.31	1885.84	1891.37	1896.90	1902.43	1907.96	1913.49	1919.02	1924.55	1930.08	1935.61	1941.14	1946.67	1952.20	1957.73	1963.26	1968.79	1974.32	1979.85	1985.38	1990.91	1996.44	2001.97	2007.50	2013.03	2018.56	2024.09	2029.62	2035.15	2040.68	2046.21	2051.74	2057.27	2062.80	2068.33	2073.86	2079.39	2084.92	2090.45	2095.98	2101.51	2107.04	2112.57	2118.10	2123.63	2129.16	2134.69	2140.22	2145.75	2151.28	2156.81	2162.34	2167.87	2173.40	2178.93	2184.46	2189.99	2195.52	2201.05	2206.58	2212.11	2217.64	2223.17	2228.70	2234.23	2239.76	2245.29	2250.82	2256.35	2261.88	2267.41	2272.94	2278.47	2284.00	2289.53	2295.06	2300.59	2306.12	2311.65	2317.18	2322.71	2328.24	2333.77	2339.30	2344.83	2350.36	2355.89	2361.42	2366.95	2372.48	2378.01	2383.54	2389.07	2394.60	2400.13	2405.66	2411.19	2416.72	2422.25	2427.78	2433.31	2438.84	2444.37	2449.90	2455.43	2460.96	2466.49	2472.02	2477.55	2483.08	2488.61	2494.14	2499.67	2505.20	2510.73	2516.26	2521.79	2527.32	2532.85	2538.38	2543.91	2549.44	2554.97	2560.50	2566.03	2571.56	2577.09	2582.62	2588.15	2593.68	2599.21	2604.74	2610.27	2615.80	2621.33	2626.86	2632.39	2637.92	2643.45	2648.98	2654.51	2660.04	2665.57	2671.10	2676.63	2682.16	2687.69	2693.22	2698.75	2704.28	2709.81	2715.34	2720.87	2726.40	2731.93	2737.46	2742.99	2748.52	2754.05	2759.58	2765.11	2770.64	2776.17	2781.70	2787.23	2792.76	2798.29	2803.82	2809.35	2814.88	2820.41	2825.94	2831.47	2837.00	2842.53	2848.06	2853.59	2859.12	2864.65	2870.18	2875.71	2881.24	2886.77	2892.30	2897.83	2903.36	2908.89	2914.42	2919.95	2925.48	2931.01	2936.54	2942.07	2947.60	2953.13	2958.66	2964.19	2969.72	2975.25	2980.78	2986.31	2991.84	2997.37	3002.90	3008.43	3013.96	3019.49	3025.02	3030.55	3036.08	3041.61	3047.14	3052.67	3058.20	3063.73	3069.26	3074.79	3080.32	3085.85	3091.38	3096.91	3102.44	3107.97	3113.50	3119.03	3124.56	3130.09	3135.62	3141.15	3146.68	3152.21	3157.74	3163.27	3168.80	3174.33	3179.86	3185.39	3190.92	3196.45	3201.98	3207.51	3213.04	3218.57	3224.10	3229.63	3235.16	3240.69	3246.22	3251.75	3257.28	3262.81	3268.34	3273.87	3279.40	3284.93	3290.46	3295.99	3301.52	3307.05	3312.58	3318.11	3323.64	3329.17	3334.70	3340.23	3345.76	3351.29	3356.82	3362.35	3367.88	3373.41	3378.94	3384.47	3389.00	3394.53	3400.06	3405.59	3411.12	3416.65	3422.18	3427.71	3433.24	3438.77	3444.30	3449.83	3455.36	3460.89	3466.42	3471.95	3477.48	3483.01	3488.54	3494.07	3499.60	3505.13	3510.66	3516.19	3521.72	3527.25	3532.78	3538.31	3543.84	3549.37	3554.90	3560.43	3565.96	3571.49	3577.02	3582.55	3588.08	3593.61	3599.14	3604.67	3610.20	3615.73	3621.26	3626.79	3632.32	3637.85	3643.38	3648.91	3654.44	3659.97	3665.50	3671.03	3676.56	3682.09	3687.62	3693.15	3698.68	3704.21	3709.74	3715.27	3720.80	3726.33	3731.86	3737.39	3742.92	3748.45	3753.98	3759.51	3765.04	3770.57	3776.10	3781.63	3787.16	3792.69	3798.22	3803.75	3809.28	3814.81	3820.34	3825.87	3831.40	3836.93	3842.46	3847.99	3853.52	3859.05	3864.58	3870.11	3875.64	3881.17	3886.70	3892.23	3897.76	3903.29	3908.82	3914.35	3919.88	3925.41	3930.94	3936.47	3942.00	3947.53	3953.06	3958.59	3964.12	3969.65	3975.18	3980.71	3986.24	3991.77	3997.30	4002.83	4008.36	4013.89	4019.42	4024.95	4030.48	4036.01	4041.54	4047.07	4052.60	4058.13	4063.66	4069.19	4074.72	4080.25	4085.78	4091.31	4096.84	4102.37	4107.90	4113.43	4118.96	4124.49	4130.02	4135.55	4141.08	4146.61	4152.14	4157.67	4163.20	4168.73	4174.26	4179.79	4185.32	4190.85	4196.38	4201.91	4207.44	4212.97	4218.50	4224.03	4229.56	4235.09	4240.62	4246.15	4251.68	4257.21	4262.74	4268.27	4273.80	4279.33	4284.86	4290.39	4295.92	4301.45	4306.98	4312.51	4318.04	4323.57	4329.10	4334.63	4340.16	4345.69	4351.22	4356.75	4362.28	4367.81	4373.34	4378.87	4384.40	4389.93	4395.46	4400.99	4406.52	4412.05	4417.58	4423.11	4428.64	4434.17	4439.70	4445.23	4450.76	4456.29	4461.82	4467.35	4472.88	4478.41	4483.94	4489.47	4495.00	4500.53
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