

SURFACE WATER						
MANHOLE NAME	EASTING	NORTHING	CONNECTED PIPES	COVER LEVELS	MANHOLE SIZE DEPTH TO SOFFIT	MANHOLE TYPE COVER TYPE
S1	387764.407	41094.9.845	1050MM 1.000 INV.124.926	128.268	2.700 2.292	UU TYPE 1 SINGLE 600x600 CLEAR OPENING
S2	387831.670	410983.248	1050MM 1.000 INV.124.738 1050MM 1.001 INV.124.738	129.022	2.700 3.234	UU TYPE 1 SINGLE 600x600 CLEAR OPENING
S3	387810.601	411026.377	1050MM 1.001 INV.124.617 1050MM 2.002 INV.124.637 900MM 5.000 INV.124.767 1050MM 1.002 INV.124.617	128.828	3.000 3.141	UU TYPE 1 SINGLE 600x600 CLEAR OPENING
S4	387789.538	411069.179	1050MM 1.002 INV.124.498 1050MM 1.003 INV.124.498	128.134	3.000 2.586	UU DETAIL 1 SINGLE 600x600 CLEAR OPENING
S5 HYDROBRAKE	387763.168	411056.978	1050MM 1.003 INV.124.425 1050MM 6.003 INV.124.425 300MM 1.004 INV.124.425	127.862	3.000 2.387	UU DETAIL 5 DOUBLE 1200x675 CLEAR OPENING
S8	387843.927	411094.704	255MM 2.000 INV.127.280	128.705	1.350 1.200	UU TYPE 4 DOUBLE 1200x675 CLEAR OPENING
S9	387861.678	411059.584	225MM 2.000 INV.127.000 225MM 2.001 INV.126.333	128.503	1.350 1.278	UU TYPE 4 DOUBLE 1200x675 CLEAR OPENING
S10	387861.796	411051.570	225MM 2.001 BD.126.333 1050MM 3.000 INV.124.798 225MM 4.000 BD.126.333 1050MM 2.002 INV.124.798	128.650	2.700 2.802	UU TYPE 1 SINGLE 600x600 CLEAR OPENING
S11	387883.059	411008.362	1050MM 3.000 INV.124.950	129.487	2.700 3.487	UU TYPE 1 SINGLE 600x600 CLEAR OPENING
S12	387878.690	411059.884	225MM 4.000 INV.126.914	128.339	1.350 1.200	UU TYPE 4 DOUBLE 1200x675 CLEAR OPENING
S13	387772.247	411007.503	900MM 5.000 INV.124.874	128.600	2.700 2.826	UU TYPE 1 SINGLE 600x600 CLEAR OPENING
S14	387661.408	411030.806	1050MM 6.000 INV.124.697 1050MM 6.001 INV.124.697	129.203	2.700 3.456	UU TYPE 1 SINGLE 600x600 CLEAR OPENING
S14A	387662.697	411037.357	1050MM 6.000 INV.124.714	129.140	2.700 3.376	UU TYPE 1 SINGLE 600x600 CLEAR OPENING
S15	387687.589	411025.928	1050MM 6.001 INV.124.631 1050MM 6.002 INV.124.631	128.880	1.350 3.199	UU TYPE 1 SINGLE 600x600 CLEAR OPENING
S16	387698.858	411027.244	1050MM 6.002 INV.124.602 1050MM 6.003 INV.124.602	128.725	3.000 2.915	UU TYPE 1 SINGLE 600x600 CLEAR OPENING

SURFACE WATER DIVERSION						
MANHOLE NAME	EASTING	NORTHING	CONNECTED PIPES	COVER LEVELS	MANHOLE SIZE DEPTH TO SOFFIT	MANHOLE TYPE COVER TYPE
S6	387759.976	411063.463	300MM 1.004 INV.124.374 300MM 1.005 INV.124.374	127.397	1.350 2.723	UU TYPE 1 SINGLE 600x600 CLEAR OPENING
S7	387713.142	411040.416	300MM 1.005 INV.124.040	127.970	1.350 3.630	UU TYPE 1 SINGLE 600x600 CLEAR OPENING
S7A	387706.927	411042.491	300MM 1.005 INV.123.995	128.038	1.350 3.630	UU TYPE 1 SINGLE 600x600 CLEAR OPENING
EX 4001	387689.965	411058.293	300MM 1.005 INV.123.837	128.353	1.350 4.216	UU TYPE 1 SINGLE 600x600 CLEAR OPENING
S18	387795.206	410932.901	300MM 1.000 INV.126.450	128.066	1.350 1.316	UU TYPE 4 DOUBLE 1200x675 CLEAR OPENING
S19	387815.036	410947.499	300MM 1.000 INV.126.350 300MM 1.001 INV.126.350	128.900	1.350 2.250	UU TYPE 1 SINGLE 600x600 CLEAR OPENING
S20	387803.392	410971.311	300MM 1.001 INV.126.224 300MM 1.002 INV.126.224	128.820	1.350 2.296	UU TYPE 1 SINGLE 600x600 CLEAR OPENING
S21	387804.906	410977.965	300MM 1.002 INV.126.195 300MM 1.003 INV.126.195	128.996	1.350 2.501	UU TYPE 1 SINGLE 600x600 CLEAR OPENING
S22	387764.673	411059.721	300MM 1.003 INV.125.865 300MM 1.004 INV.125.865	127.836	1.350 1.671	UU TYPE 1 SINGLE 600x600 CLEAR OPENING

ALL CHAMBERS WITH A DEPTH FROM COVER TO SOFFIT OF 3.0M OR GREATER TO HAVE LADDERS IN PLACE OF STEP RUNGS

FOUL WATER						
MANHOLE NAME	EASTING	NORTHING	CONNECTED PIPES	COVER LEVELS	MANHOLE SIZE DEPTH TO SOFFIT	MANHOLE TYPE COVER TYPE
F1	387666.541	411027.066	150MM 1.000 INV.128.099	129.145	1.350 0.896	UU TYPE 4 DOUBLE 1200x675 CLEAR OPENING
F2	387691.735	411023.558	150MM 1.000 INV.127.782 225MM 1.001 INV.127.707	128.809	1.350 0.877	UU TYPE 4 DOUBLE 1200x675 CLEAR OPENING
F3	387702.431	411026.196	225MM 1.001 INV.127.602 225MM 1.002 INV.127.602	128.673	1.350 0.846	UU TYPE 4 DOUBLE 1200x675 CLEAR OPENING
F4	387733.397	411041.168	225MM 1.002 INV.127.277 225MM 1.003 INV.127.277	128.239	1.350 0.737	UU TYPE 4 DOUBLE 1200x675 CLEAR OPENING
F5	387751.290	411009.338	225MM 1.003 INV.126.933 225MM 1.004 INV.126.933	128.165	1.350 1.007	UU TYPE 4 DOUBLE 1200x675 CLEAR OPENING
F7	387807.579	411027.306	225MM 1.005 INV.125.946 300MM 2.002 INV.125.871 150MM 4.000 INV.126.021 400MM 1.006 INV.125.771	128.828	1.500 2.657	UU TYPE 1 SINGLE 600x600 CLEAR OPENING
F8	387866.119	411055.691	400MM 1.006 INV.124.975 225MM 5.001 INV.125.150 150MM 6.000 BD.126.250 375MM 1.007 INV.125.000	128.591	1.500 3.216	UU TYPE 1 SINGLE 600x600 CLEAR OPENING
F10	387816.993	410947.271	225MM 1.000 INV.126.491 225MM 1.001 INV.126.491	129.100	1.350 2.384	UU TYPE 1 SINGLE 600x600 CLEAR OPENING
F11	387805.009	410972.107	225MM 1.001 INV.126.336 225MM 2.001 INV.126.336	128.832	1.350 2.271	UU TYPE 1 SINGLE 600x600 CLEAR OPENING
F12	387829.069	410983.947	225MM 2.001 INV.126.166 300MM 2.002 INV.126.091	129.030	1.350 2.639	UU TYPE 1 SINGLE 600x600 CLEAR OPENING
F13	387816.667	410944.386	225MM 3.000 INV.126.516	128.807	1.350 2.066	UU TYPE 1 SINGLE 600x600 CLEAR OPENING
F14	387789.080	411064.629	150MM 4.000 INV.126.775	128.125	1.200 1.200	UU TYPE 4 DOUBLE 1200x675 CLEAR OPENING
F15	387880.629	411017.357	225MM 5.000 INV.125.676	129.255	1.200 3.324	UU TYPE 1 SINGLE 600x600 CLEAR OPENING
F16	387865.169	411048.509	225MM 5.000 INV.125.241 225MM 5.001 INV.125.241	128.622	1.350 3.156	UU TYPE 1 SINGLE 600x600 CLEAR OPENING
F17	387847.759	411092.735	150MM 6.000 INV.127.263	128.682	1.200 1.269	UU TYPE 4 DOUBLE 1200x675 CLEAR OPENING
F6 (PH17006)	387769.905	411009.038	225MM 1.004 INV.126.762 225MM 1.005 INV.126.762	128.576	1.350 1.596	UU TYPE 4 DOUBLE 1200x675 CLEAR OPENING
F9 (PH19009)	387914.500	411079.150	375MM 1.007 INV.124.450	128.030	1.200 3.205	UU TYPE 1 SINGLE 600x600 CLEAR OPENING

NOTES:

- ALL SEWERS ARE DESIGNED IN ACCORDANCE WITH SEWERS FOR ADOPTION 6TH EDITION AND UNITED UTILITIES GUIDELINES AND STANDARD DETAILS.
- ALL CO-ORDINATES AND LEVELS SHOWN ARE RELATIVE TO THE TOPOGRAPHIC SURVEY.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE ANY EXISTING SEWERS ARE IN THE LOCATION INDICATED AND ANY EXISTING GROUND AND INVERT LEVELS SHOWN ON THE DRAWING ARE CORRECT PRIOR TO THE COMMENCEMENT OF ANY WORKS. ANY DISCREPANCIES MUST BE MUST BE REPORTED IMMEDIATELY.
- PRIOR TO THE COMMENCEMENT OF ANY ON SITE WORKS THE CONTRACTOR MUST CONTACT THE STATUTORY UNDERTAKER AND BE IN POSSESSION OF THE LATEST DRAWINGS SHOWING THEIR APPARATUS.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ALLOW FOR THE SUPERVISION OF THE CONSTRUCTION WORKS BY UNITED UTILITIES AND/ OR ROCHDALE BOROUGH COUNCIL. THE CONTRACTOR WILL NOTIFY THE SUPERVISING OFFICER GIVING NOTICE WHICH WILL BE IN ACCORDANCE WITH THE AUTHORITIES REQUIREMENTS.
- THE PROPOSED SEWERS WILL BE REINFORCED PVC-U PIPES COMPLYING WITH BS EN 1401-1 UP TO AND INCLUDING 300MM. PVC-U PIPES TO BE IN ACCORDANCE WITH B.S 4660:200 & B.S EN 1401-1.
- ANY PCC PIPE WORK WILL BE IN ACCORDANCE WITH BS EN 1916:2002.
- ALL MANHOLES AND CHAMBERS SHALL BE IN ACCORDANCE WITH BS EN 1917:2002
- SEWERS WITH COVER TO SOFFIT GREATER THAN 1.2m IN ROADS AND 0.9m IN FIELDS SHALL HAVE CLASS 5 BED AND SURROUND ALL IN ACCORDANCE WITH UNITED UTILITIES STANDARD DETAIL STND/05/001.
- PRIVATE DRAINAGE CONNECTIONS TO THE SEWER WILL BE 150MM DIAMETER AND LAID TO THE SPECIFIED INVERT.
- THE INVERT LEVELS SPECIFIED AT THE DRAGOUT CHAMBER ARE INCOMING LEVELS.
- WHEREVER POSSIBLE PRIVATE DRAINAGE RUNS WILL REMAIN WITHIN THE CURTILAGE OF THE DWELLING FOR WHICH THEY SERVE.
- THE CONNECTION TO THE ADOPTABLE SEWER SHALL BE MANUFACTURED JUNCTION PIPES A SADDLE CONNECTION IS NOT PERMITTED UNLESS IT IS CLEARLY SPECIFIED.
- ANY SEWER FOR ADOPTION WITH A COVER OF LESS THAN 1.2M TO PIPE SOFFIT IN ROADS OR 0.9m TO PIPE SOFFIT IN FIELDS WILL HAVE A MINIMUM 150mm GEN 3 CONCRETE BED AND SURROUND WITH FLEXIBILITY MAINTAINED WITH FLEXCELL EXPANSION JOINT FILLER OR SIMILAR APPROVED AT EACH PIPE JOINT.
- CONCRETE MIX FOR MANHOLE SURROUNDS TO BE GEN3.
- INSTALL GULLIES, MANHOLES, GRATES, COVERS AND ALL ANCILLARY ITEMS TO MANUFACTURERS SPECIFICATION.
- ALL MANHOLES INCLUDING 1950MM DIAMETER TO BE KITEMARKED AND COMPLY TO BS EN 1917:2002.
- ALL MANHOLES TO BE INSTALLED IN ACCORDANCE WITH UNITED UTILITIES DETAILS AND HYDRO INTERNATIONAL SPECIFICATION.
- CONNECTIONS TO THE EXISTING SEWER WILL BE IN ACCORDANCE WITH SECTION 104 APPROVAL GRANTED BY UNITED UTILITIES.
- SEWERS/MANHOLES TO BE ABANDONED TO BE EITHER GROUTED UP OR GRUBBED OUT. UU INSPECTOR TO SIGN OFF WORKS ON COMPLETION.
- TOTAL SURFACE WATER DISCHARGE RATE QUOTED IS 30 LITRES PER SECOND. UNITED UTILITIES PRE DEVELOPMENT ENQUIRY RESPONSE TO CONFIRM ALLOWABLE DISCHARGE RATE.

FILENAME

PLOT DATE

0 mm 10 20 30 40 50

C06 19.06.23	Updated to revised channel levels	M.A. R.A.	
C05 23.01.23	Updated to suit latest drainage changes	J.C. R.A.	
C04 09.12.22	Updated in line with drainage	H.S. R.A.	
C03 09.11.22	Updated F8, F15, F16	H.S. R.A.	
Rev	Date	Description	By Chk



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DO NOT SCALE DRAWINGS. IF IN DOUBT, ASK!

Project Name

**NIXON STREET
ROCHDALE**

Client

HIVE HOMES

Designed

Drawn

Checked

Scale @ A1

R.A

J.A

R.A

N/A

Drawing Title

MANHOLE SCHEDULES

Project No.

20066

Drawing No.

C2101

Revision

C06

**ISSUED FOR
CONSTRUCTION**