

PRIVATE SURFACE WATER INSPECTION CHAMBER SCHEDULE						
MH REFERENCE	INVERT LEVELS	COVER LEVELS	DEPTH TO INVERT	TYPE	SIZE	COORDINATES
SW1	1000 - 217.200	218.293	1.093	PPIC	0.450	E422292.840 N416194.308
SW2	1000 - 217.500	218.087	0.587	PPIC	0.450	E422285.884 N416219.103
SW3	1000 - 217.025 1000 - 217.025 2250 - 216.900	217.933	1.033	PPIC 600	0.600	E422289.813 N416210.174
SW4	1000 - 215.800	216.601	0.801	PPIC	0.450	E422327.124 N416225.451
SW5	2250 - 215.300 1000 - 215.425 2250 - 215.300	216.822	1.522	PPIC 600	0.600	E422329.369 N416222.355
SW6	2250 - 215.200 2250 - 215.200	216.788	1.588	PPIC 600 CATCHPIT	0.600	E422339.321 N416214.919
SW7	1000 - 215.200	216.267	1.067	PPIC CATCHPIT	0.450	E422340.999 N416223.171
SW8	3000 - 214.190 3000 - 214.190	216.554	2.364	CTACHPIT	1.200	E422352.437 N416204.773
SW9	1000 - 216.300	217.023	0.723	PPIC	0.450	E422339.776 N416193.519
SW10	1000 - 216.300	216.991	0.691	PPIC	0.450	E422336.457 N416205.237
SW11	3000 - 214.150 1000 - 215.500 3000 - 214.150	216.566	2.416	B	1.200	E422352.697 N416196.914
SW12	1500 - 216.450	217.337	0.887	PPIC	0.450	E422318.189 N416165.620
SW13	1500 - 214.850	216.256	1.406	PPIC CATCHPIT	0.450	E422365.133 N416175.228

ADOPTABLE SURFACE WATER MANHOLE SCHEDULE							
MH REFERENCE	INVERT LEVELS	COVER LEVELS	DEPTH TO INVERT	TYPE	SIZE	COVER TYPE	COORDINATES
SW14	3000 - 214.050 1500 - 215.150 1500 - 214.200 2250 - 214.050	216.276	2.226	FLOW CONTROL	1.500	D400	E422357.815 N416173.766
SW15	2250 - 214.000 2250 - 214.000	216.241	2.241	B	1.200	D400	E422359.402 N416166.534
SW16	2250 - 213.625	215.249	1.624	B1	1.350	D400	E422411.763 N416176.852

NOTES:

- REFER TO DRAINAGE CONSTRUCTION DETAILS D701 FOR FURTHER INFORMATION REGARDING MANHOLE/INSPECTION TYPES.
- FOR FULL FIXING INFORMATION REFER TO MANUFACTURERS INSTALLATION GUIDELINES.
- COVER TYPES;
 - A15 - PEDESTRIAN AND CYCLIST USE ONLY
 - B125 - PRIVATE DRIVEWAYS
 - C250 - SHARED DRIVEWAYS
 - D400 - ADOPTABLE ROADS

NOTES:

- FLOW CONTROL DETAIL REFERS TO HYDRO INTERNATIONAL HYDRO BRAKE OPTIMUM SPECIFICATION

PRIVATE FOUL WATER INSPECTION CHAMBER SCHEDULE						
MH REFERENCE	INVERT LEVELS	COVER LEVELS	DEPTH TO INVERT	TYPE	SIZE	COORDINATES
FW1	1000 - 216.900	218.312	1.412	PPIC	0.450	E422292.215 N416195.035
FW2	1000 - 216.600 1000 - 216.600	217.955	1.355	PPIC	0.450	E422289.141 N416210.600
FW3	1000 - 215.000 1500 - 215.000	216.775	1.775	PPIC	0.450	E422329.522 N416223.190
FW4	1500 - 214.800 1500 - 214.800	216.525	1.725	PPIC	0.450	E422353.655 N416205.238
FW5	1000 - 215.400	216.750	1.350	PPIC	0.450	E422347.526 N416195.058
FW6	1500 - 214.700 1000 - 214.750 1500 - 214.700	216.532	1.832	B	1.200	E422354.185 N416196.194

DIVERTED FOUL WATER MANHOLE SCHEDULE							
MH REFERENCE	INVERT LEVELS	COVER LEVELS	DEPTH TO INVERT	TYPE	SIZE	COVER TYPE	COORDINATES
FWD1	1500 - 216.200 1500 - 216.200	217.501	1.301	B1	1.350	D400	E422315.157 N416163.993
FWD2	1500 - 214.500 1500 - 214.500 1500 - 214.500	216.221	1.721	B	1.200	D400	E422359.567 N416172.527
FWD3	1500 - 214.000 1500 - 214.000	215.678	1.678	B	1.200	D400	E422382.486 N416176.829

NOTES:

- MANHOLE TYPE B1 TO HAVE DOUBLE COVER.
- REFER TO DRAINAGE CONSTRUCTION DETAILS D701 FOR FURTHER INFORMATION REGARDING MANHOLE TYPES.
- FOR FULL FIXING INFORMATION REFER TO MANUFACTURERS INSTALLATION GUIDELINES.

NOTES:

- HEADWALL TYPES REFER TO ALTHON HEADWALL SPECS
- FOR FULL FIXING INFORMATION REFER TO MANUFACTURERS INSTALLATION GUIDELINES.

SW14 HYDROBRAKE DETAILS		
REFERENCE: CTL-SHE-0084-3500-1350-3500		
DESIGN HEAD: 1.35m		
ORIFICE SIZE: 82mm		
DESIGN FLOW: 3.5l/s		
INVERT LEVEL: 214.05m		
TECHNICAL SPECIFICATION		
CONTROL POINT	HEAD (m)	FLOW (l/s)
PRIMARY DESIGN	1.350	3.500
FLUSH - FLO	0.367	3.323
KICK - FLO	0.747	2.667
MEAN FLOW		2.973

DESIGN RISK NOTES:

- IN ACCORDANCE WITH THE CONSTRUCTION (DESIGN & MANAGEMENT) REGULATIONS 2015, IT IS THE POLICY OF THIS PRACTICE TO 'DESIGN OUT' AS MANY IDENTIFIABLE RISKS AS POSSIBLE FOR THE CONSTRUCTION, OPERATION AND MAINTENANCE OF THE PROJECT.
- ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE PRE CONSTRUCTION INFORMATION WHICH IS DEFINED IN THE CONSTRUCTION (DESIGN & MANAGEMENT) REGULATIONS 2015.
- A COMPETENT CONTRACTOR SHOULD BE AWARE OF 'NORMAL' RISKS INVOLVED WITH THE CONSTRUCTION PROCESS. HOWEVER ADDITIONAL PRECAUTIONS WILL NEED TO BE CONSIDERED FOR THE FOLLOWING ITEMS:
 - NONE IDENTIFIED.
- SAFE METHODS AND SYSTEMS OF WORK REMAIN THE RESPONSIBILITY OF THE CONTRACTOR AND MUST BE IDENTIFIED IN THE CONSTRUCTION PHASE PLAN. THE CONSTRUCTION PHASE PLAN MUST BE IN PLACE PRIOR TO THE START OF ANY MOBILIZATION OR SITE WORKS.
- RESIDUAL RISKS THAT HAVE BEEN IDENTIFIED AND CANNOT BE 'DESIGNED OUT' ARE AS FOLLOWS:
 - NONE IDENTIFIED.
- IF ANY PARTY USING THIS DRAWING CONSIDERS THAT THERE ARE 'ABNORMAL' RISKS THAT HAVE NOT BEEN IDENTIFIED ABOVE, THEN THE ENGINEER SHOULD BE NOTIFIED.

ADDITIONAL HEALTH & SAFETY NOTES:

- CONTRACTOR SHOULD BE AWARE OF GENERAL CONSTRUCTION RISKS TO PREVENT SLIPS, TRIPS AND FALLS AND TAKE NECESSARY PRECAUTIONS WITHOUT SPECIAL INSTRUCTION.
- CONTRACTOR TO PROVIDE TRENCH SUPPORTS AS APPROPRIATE AND ENSURE THAT PLANT REMAINS A SAFE DISTANCE FROM TRENCHES PRIOR TO INSTALLING DRAINAGE.
- THE TIME THAT EXCAVATIONS ARE OPEN ON SITE SHOULD BE KEPT TO A MINIMUM AND ALL TRENCHES SHOULD BE SURROUNDED BY A BARRIER.
- CONNECTIONS TO EXISTING SEWERS TO BE MADE BY APPROVED CONTRACTOR ONLY.
- CONTRACTOR TO MAKE OPERATIVES AWARE OF ASSOCIATED DANGERS TO HEALTH SUCH AS LEPTOSPIROSIS (WELLS DISEASE) AND RECOMMENDED PRECAUTIONS, ADEQUATE WELFARE FACILITIES AND PROTECTIVE CLOTHING TO BE PROVIDED AS REQUIRED.
- UNFINISHED MANHOLES MUST BE COVERED WITH LOAD BEARING MATERIALS AND SURROUNDED WITH BARRIER.

PIPES & CABLES

- CONTRACTOR TO OBTAIN ALL SERVICE RECORDS PRIOR TO WORKS COMMENCING.
- SERVICE RECORDS TO BE REFERRED TO PRIOR TO WORK COMMENCING. CONTRACTOR TO PROCEED WITH CAUTION AND SERVICES TO BE LOCATED BY HAND DIG AND PROTECTED ACCORDINGLY.

EXCAVATION/FILL

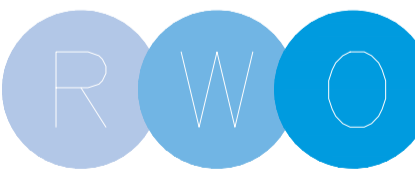
- CONTRACTOR TO ENSURE RELEVANT MEASURES ARE TAKEN TO KEEP PLANT AND PEOPLE A SAFE DISTANCE FROM STEEP SLOPES DURING THE WORKS.
- CONTRACTOR TO ENSURE THAT PROCEDURES ARE IN PLACE TO KEEP PEOPLE A SAFE DISTANCE FROM WORKING PLANT WHERE NECESSARY.
- CONTRACTOR TO REFER TO GROUND INVESTIGATION REPORT FOR CONTAMINATION TESTS AND TO PROVIDE ADEQUATE WELFARE FACILITIES AND PROTECTIVE CLOTHING AS REQUIRED.

17/11/2025	FW6_SWB_SWT1 & SW14 CHANGED TO PRIVATE	NA	AE	3
13/11/2025	FW6_SWB_SWT1 & SW14 CHANGED TO ADOPTABLE	SR	AE	2
20/07/2025	FIRST ISSUE	SR	AE	1
Date	Revisions	Drawn	Checked	Rev

Dwg Status: **TENDER**

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CONSULTING ENGINEERS

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Client: **YORKSHIRE COUNTY PROPERTIES**

Project: **DENBY LANE
GRANGE MOOR**

Title: **MANHOLE SCHEDULES**

DO NOT SCALE	Scale @ A1: 250	Drawn: SR	Checked: AE	Date: 21.07.2025
Job No: Y22054	Dwg No: D201	Rev: 3		