PRIVATE SURFACE WATER INSPECTION CHAMBER SCHEDULE						
MH REFERENCE	INVERT LEVELS	COVER LEVELS	DEPTH TO INVERT	TYPE	SIZE	COORDINATES
SW1	100Ø - 217.200	218.293	1.093	PPIC	0.450	E422292.840 N416194.308
SW2	100Ø - 217.500	218.087	0.587	PPIC	0.450	E422285.884 N416219.103
SW3	100Ø - 217.025 100Ø - 217.025 225Ø - 216.900	217.933	1.033	PPIC 600	0.600	E422289.813 N416210.174
SW4	100Ø - 215.800	216.601	0.801	PPIC	0.450	E422327.124 N416225.451
SW5	225Ø - 215.300 100Ø - 215.425 225Ø - 215.300	216.822	1.522	PPIC 600	0.600	E422329.369 N416222.355
SW6	225Ø - 215.200 225Ø - 215.200	216.788	1.588	PPIC 600 CATCHPIT	0.600	E422339.321 N416214.919
SW7	100Ø - 215.200	216.274	1.074	PPIC CATCHPIT	0.450	E422340.999 N416223.171
SW8	300Ø - 214.185 300Ø - 214.185	216.626	2.441	CTACHPIT	1.200	E422351.812 N416204.086
SW9	100Ø - 216.300	217.023	0.723	PPIC	0.450	E422339.776 N416193.519
SW10	100Ø - 216.300	216.991	0.691	PPIC	0.450	E422336.457 N416205.237
SW11	300Ø - 214.150 100Ø - 215.500 300Ø - 214.150	216.566	2.416	B	1.200	E422352.697 N416196.914
SW12	150Ø - 216.450	217.337	0.887	PPIC	0.450	E422318.189 N416165.620
SW13	150Ø - 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	300Ø - 214.050 150Ø - 215.150 150Ø - 214.200 225Ø - 214.050	216.276	2.226	FLOW CONTROL	1.500	D400	E422357.815 N416173.766
SW15	225Ø - 214.000 225Ø - 214.000	216.241	2.241	B	1.200	D400	E422359.402 N416166.534
SW16	225Ø - 213.625	215.249	1.624	B1	1.350	D400	E422411.763 N416176.852

NOTES:

1. REFER TO DRAINAGE CONSTRUCTION DETAILS D701 FOR FURTHER INFORMATION REGARDING MANHOLE/INSPECTION TYPES.
2. FOR FULL FIXING INFORMATION REFER TO MANUFACTURERS INSTALLATION GUIDELINES.
3. COVER TYPES;

- A15 – PEDESTRIAN AND CYCLIST USE ONLY
- B125 – PRIVATE DRIVEWAYS
- C250 – SHARED DRIVEWAYS
- D400 – ADOPTABLE ROADS

NOTES:

1. 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	100Ø - 216.900	218.312	1.412	PPIC	0.450	E422292.215 N416195.035
FW2	100Ø - 216.600 100Ø - 216.600	217.955	1.355	PPIC	0.450	E422289.141 N416210.600
FW3	100Ø - 215.000 150Ø - 215.000	216.775	1.775	PPIC	0.450	E422329.522 N416223.190
FW4	150Ø - 214.800 150Ø - 214.800	216.608	1.808	PPIC	0.450	E422353.655 N416205.238
FW5	100Ø - 215.400	216.750	1.350	PPIC	0.450	E422347.526 N416195.058
FW6	150Ø - 214.700 100Ø - 214.750 150Ø - 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	150Ø - 216.200 150Ø - 216.200	217.501	1.301	B1	1.350	D400	E422315.157 N416163.993
FWD2	150Ø - 214.500 150Ø - 214.500 150Ø - 214.500	216.221	1.721	B	1.200	D400	E422359.567 N416172.527
FWD3	150Ø - 214.000 150Ø - 214.000	215.678	1.678	B	1.200	D400	E422382.486 N416176.829

NOTES:

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

NOTES:

1. HEADWALL TYPES REFER TO ALTHON HEADWALL SPECS
2. 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:

1. 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.
2. ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE PRE CONSTRUCTION INFORMATION WHICH IS DEFINED IN THE CONSTRUCTION (DESIGN & MANAGEMENT) REGULATIONS 2015.
3. 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:
   A) NONE IDENTIFIED.
4. 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.
5. RESIDUAL RISKS THAT HAVE BEEN IDENTIFIED AND CANNOT BE 'DESIGNED OUT' ARE AS FOLLOWS:
   A) NONE IDENTIFIED.
6. 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:

1. CONTRACTOR SHOULD BE AWARE OF GENERAL CONSTRUCTION RISKS TO PREVENT SLIPS, TRIPS AND FALLS AND TAKE NECESSARY PRECAUTIONS WITHOUT SPECIAL INSTRUCTION.

ROADS & DRAINAGE

2. CONTRACTOR TO PROVIDE TRENCH SUPPORTS AS APPROPRIATE AND ENSURE THAT PLANT REMAINS A SAFE DISTANCE FROM TRENCHES PRIOR TO INSTALLING DRAINAGE
3. THE TIME THAT EXCAVATIONS ARE OPEN ON SITE SHOULD BE KEPT TO A MINIMUM AND ALL TRENCHES SHOULD BE SURROUNDED BY A BARRIER.
4. CONNECTIONS TO EXISTING SEWERS TO BE MADE BY APPROVED CONTRACTOR ONLY.
5. CONTRACTOR TO MAKE OPERATIVES AWARE OF ASSOCIATED DANGERS TO HEALTH SUCH AS LEPTOSPIROSIS (WEILS DISEASE) AND RECOMMENDED PRECAUTIONS. ADEQUATE WELFARE FACILITIES AND PROTECTIVE CLOTHING TO BE PROVIDED AS REQUIRED.
6. UNFINISHED MANHOLES MUST BE COVERED WITH LOAD BEARING MATERIALS AND SURROUNDED WITH BARRIER.

PIPES & CABLES

7. CONTRACTOR TO OBTAIN ALL SERVICE RECORDS PRIOR TO WORKS COMMENCING.
8. 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

9. CONTRACTOR TO ENSURE RELEVANT MEASURES ARE TAKEN TO KEEP PLANT AND PEOPLE A SAFE DISTANCE FROM STEEP SLOPES DURING THE WORKS.
10. CONTRACTOR TO ENSURE THAT PROCEDURES ARE IN PLACE TO KEEP PEOPLE A SAFE DISTANCE FROM WORKING PLANT WHERE NECESSARY.
11. CONTRACTOR TO REFER TO GROUND INVESTIGATION REPORT FOR CONTAMINATION TESTS AND TO PROVIDE ADEQUATE WELFARE FACILITIES AND PROTECTIVE CLOTHING AS REQUIRED.
12.

Date	Revisions	Drawn	Checked	Rev
12.01.2026	MINOR CHANGES TO LAYOUT, SW9 MOVED SLIGHTLY	NA	AE	4
17.11.2025	FW6,SW8,SW11 & SW14 CHANGED TO PRIVATE	NA	AE	3
13/11/2025	FW6,SW8,SW11 & SW14 CHANGED TO ADOPTABLE	SR	AE	2
21/07/2025	FIRST ISSUE	SR	AE	1

Dwg Status: TENDER

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YORKSHIRE
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RWO
CONSULTING ENGINEERS

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Client: YORKSHIRE COUNTY PROPERTIES

Project: DENBY LANE
GRANGE MOOR

Title: MANHOLE SCHEDULES

DO NOT SCALE	Scale @ A1: 1:250	Drawn SR	Checked AE	Date 21.07.2025
Job No Y22054		Dwg No D201		Rev 4