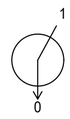
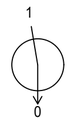
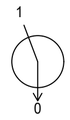
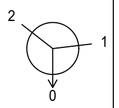
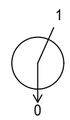
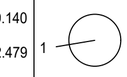
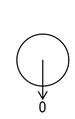
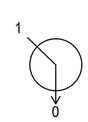
Manhole Number	Cover Level	Connections	Pipe				Manhole Size	Types	
Coordinates	Depth To Soffit		Code	Inverts	Diams			Manhole	Cover
F1	104.134		0	1.000	102.000	150	1200	B	D400
E. 441082.954	1.984								
N. 411191.249									
F2	103.535		1	1.000	101.093	150	1200	B	D400
E. 441090.300	2.292		0	1.001	101.093	150			
N. 411197.142									
F3	102.703		1	1.001	99.835	150	1200	B	D400
E. 441095.368	2.718		0	1.002	99.835	150			
N. 411209.339									
F4	101.951		1	1.002	99.749	150	1200	B	D400
E. 441101.278	2.052		0	1.003	99.749	150			
N. 411218.773									
F5	100.410		1	2.001	97.083	150	1200	A	D400
E. 441134.162	3.177		2	1.003	97.083	150			
N. 411243.849			0	1.004	97.083	150			
F6	100.043		1	1.004	96.734	150	1200	A	D400
E. 441178.106	3.159		0	1.005	96.734	150			
N. 411232.360									

Manhole Number	Cover Level	Connections	Pipe				Manhole Size	Types	
Coordinates	Depth To Soffit		Code	Inverts	Diams			Manhole	Cover
Ex MH F7	99.140		1	1.005	96.511	150	EXISTING MANHOLE F7 MUST BE INSPECTED BY A YW INSPECTOR TO ENSURE THAT THE MANHOLE CAN ACCOMMODATE THE NEW CONNECTION AND CHECK IF ANY REMEDIAL WORKS ARE REQUIRED PRIOR TO STARTING ON SITE (IT MAY BE NECESSARY TO RECONSTRUCT THE MANHOLE AT THE CLIENTS EXPENSE).		
E. 441206.734	2.479								
N. 411237.125									
F8	100.704		0	2.000	97.508	150	1200	A	D400
E. 441118.757	3.046								
N. 411276.049									
F9	100.213		1	2.000	97.164	150	1200	B	D400
E. 441135.620	2.899		0	2.001	97.164	150			
N. 411254.288									

RISK ASSESSMENT: SIGNIFICANT RISKS THAT CANNOT BE DESIGNED OUT		
RISK	LEVEL OF RISK (H/M)	SUGGESTED ACTION
DEEP EXCAVATIONS ASSOCIATED WITH NEW DRAINAGE WORKS	HIGH	ENSURE ALL EXCAVATIONS HAVE ADEQUATE TRENCH SUPPORTS
HANDLING LARGE DIAMETER MANHOLE RINGS AND CIRCULAR PIPES	HIGH	USE CORRECT LIFTING EQUIPMENT AND ENSURE OPERATIVES WEAR APPROPRIATE PROTECTIVE CLOTHING/HARD HATS/CORRECT PPE.
CONTACT WITH SEWAGE	MED	OPERATIVES TO USE CORRECT BREATHING EQUIPMENT/CORRECT PPE
NOISE	MED	OPERATIVES TO USE CORRECT EAR PROTECTION/CORRECT PPE
DRAINAGE EXCAVATIONS ADJACENT EXISTING BOUNDARY STRUCTURES	HIGH	ENSURE CORRECT SUPPORTS ARE PROVIDED TO TRENCHES AND BUILDINGS WHERE REQUIRED
DRAINAGE EXCAVATION IN PUBLIC HIGHWAY	HIGH	ENSURE CORRECT USE OF TRENCH SUPPORTS IN EXCAVATION AND SCREEN BARRIERS TO PROTECT MEMBERS OF THE PUBLIC
MAINTAIN ACCESS TO ADJACENT PROPERTIES AND OCCUPIERS	HIGH	ENSURE WORKS ARE PROTECTED WITH BARRIERS AND SIGNS TO GUIDE THE PUBLIC AWAY FROM THE WORKS
DRAINAGE EXCAVATIONS NEAR TO EXISTING SERVICES	HIGH	ENSURE WORKS ARE PROTECTED WITH BARRIERS AND SIGNS TO GUIDE MEMBERS OF THE PUBLIC AWAY FROM THE AREA
WORKING IN CONFINED SPACES. WORKING IN DRAINS AND MANHOLES	HIGH	CONFINED SPACES WORKING TRAINED PERSONNEL ONLY TO CARRY OUT WORKS UNDER A PERMIT TO WORK SCHEME IMPLEMENTED BY CONTRACTOR. GAS TESTING TO TAKE PLACE BEFORE ALL ENTRIES TO CONFINED SPACES.
WORKING IN HIGHWAYS / RISKS FROM VEHICLE AND PLANT	HIGH	ALL WORKS TO BE SIGNED AND FENCED FROM NORMAL VEHICULAR TRAFFIC, ALL WORKERS TO WEAR HIGH VISIBILITY CLOTHING. ALL PLANT TO HAVE VISUAL AND AUDIBLE WARNING SYSTEMS.
ROAD AND DRAINAGE CONSTRUCTION	HIGH	ALL EXCAVATIONS TO BE ADEQUATELY FENCED OFF AND SUPPORTED DURING CONSTRUCTION. ALL OPERATIVES TO BE TRAINED IN CORRECT METHODS OF LIFTING AND WORK IN ACCORDANCE WITH LOLER REGS
IT IS ASSUMED THAT WORKS ASSOCIATED WITH THIS DESIGN WILL BE UNDERTAKEN BY A PERSON OR PERSONS WHO ARE COMPETANT AND HAVE THE REQUIRED LEVEL OF EXPERIENCE AND EXPERTISE		

Haigh Huddleston & Associates

Civil Structural Engineering Consultants

Firth Buildings, 99 - 101 Leeds Rd, Dewsbury, WF12 7BU t 01924 464342 f 01924 450662

e martin@haighhuddleston.co.uk

Client
SAUL CONSTRUCTION

Project
HALL GARDENS, BRIERLEY - PHASE 2

Detail
MANHOLE SCHEDULE - SECTION 104

Dwn	Chkd	Date	Scale	Dwg No.
CM	MD	Apr'21	NTS@A2	E18/7318/07_01