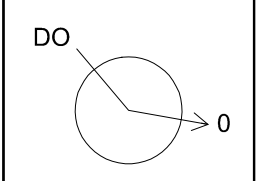
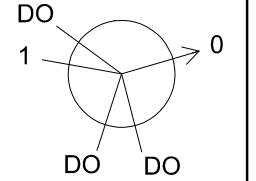
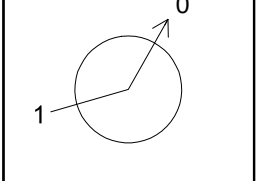
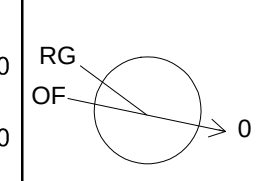
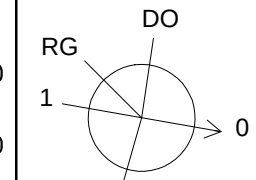


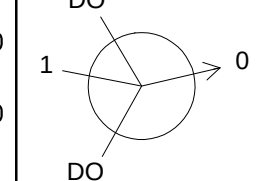
Manhole Number	Cover Level	Connections	Pipe			Manhole Size	Types	
Coordinates	Depth To Soffit		Code	Inverts	Diams		Manhole Type & Features	Cover Type, Size & Opening Size
F100	97.790		DO	PRIV	96.00	150	Type 1 with Double Steps	750x750 Eccentric Opening
E. 385973.923	1.640							
N. 404163.051			0	F 1.000	96.00	150		

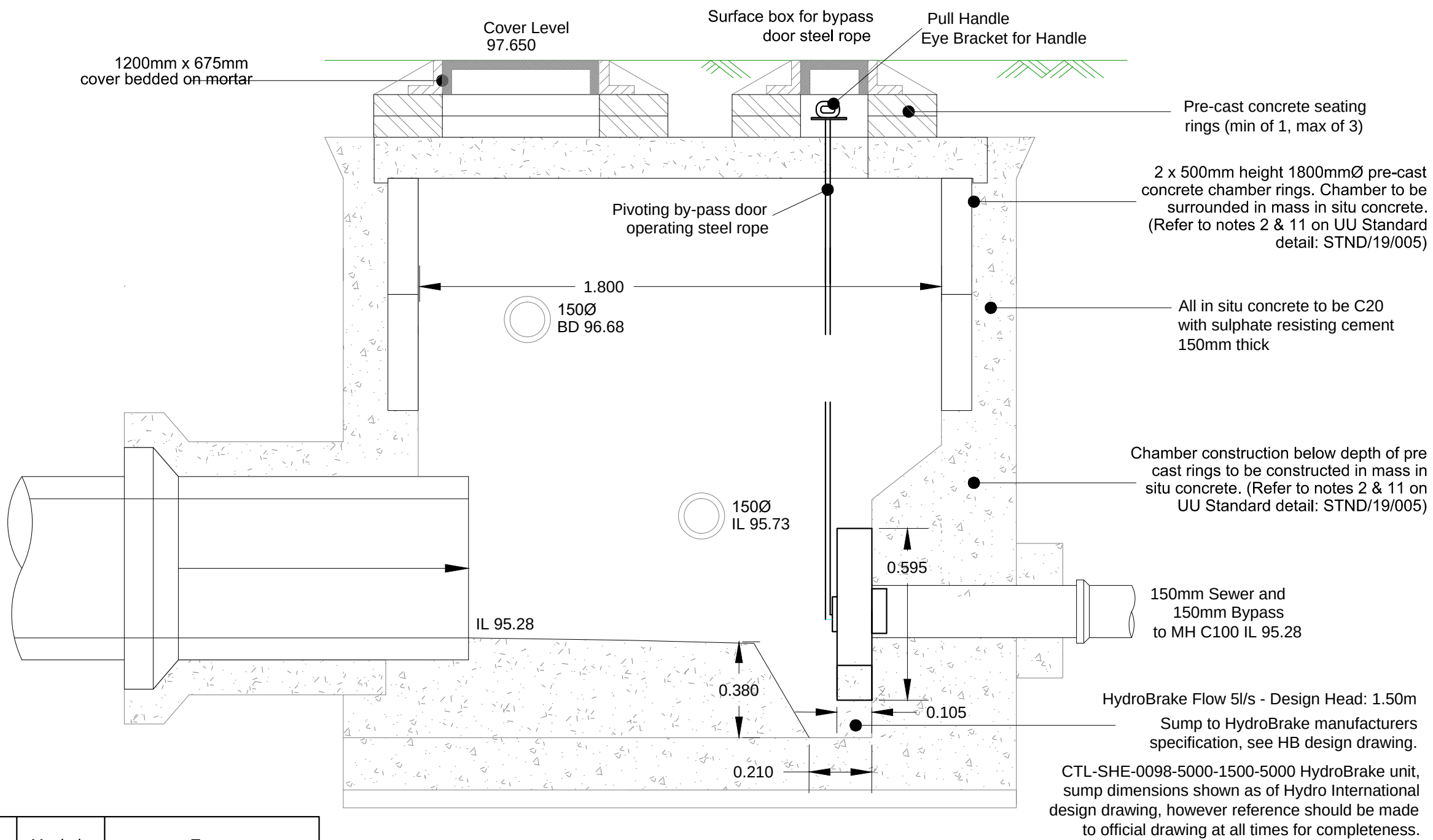
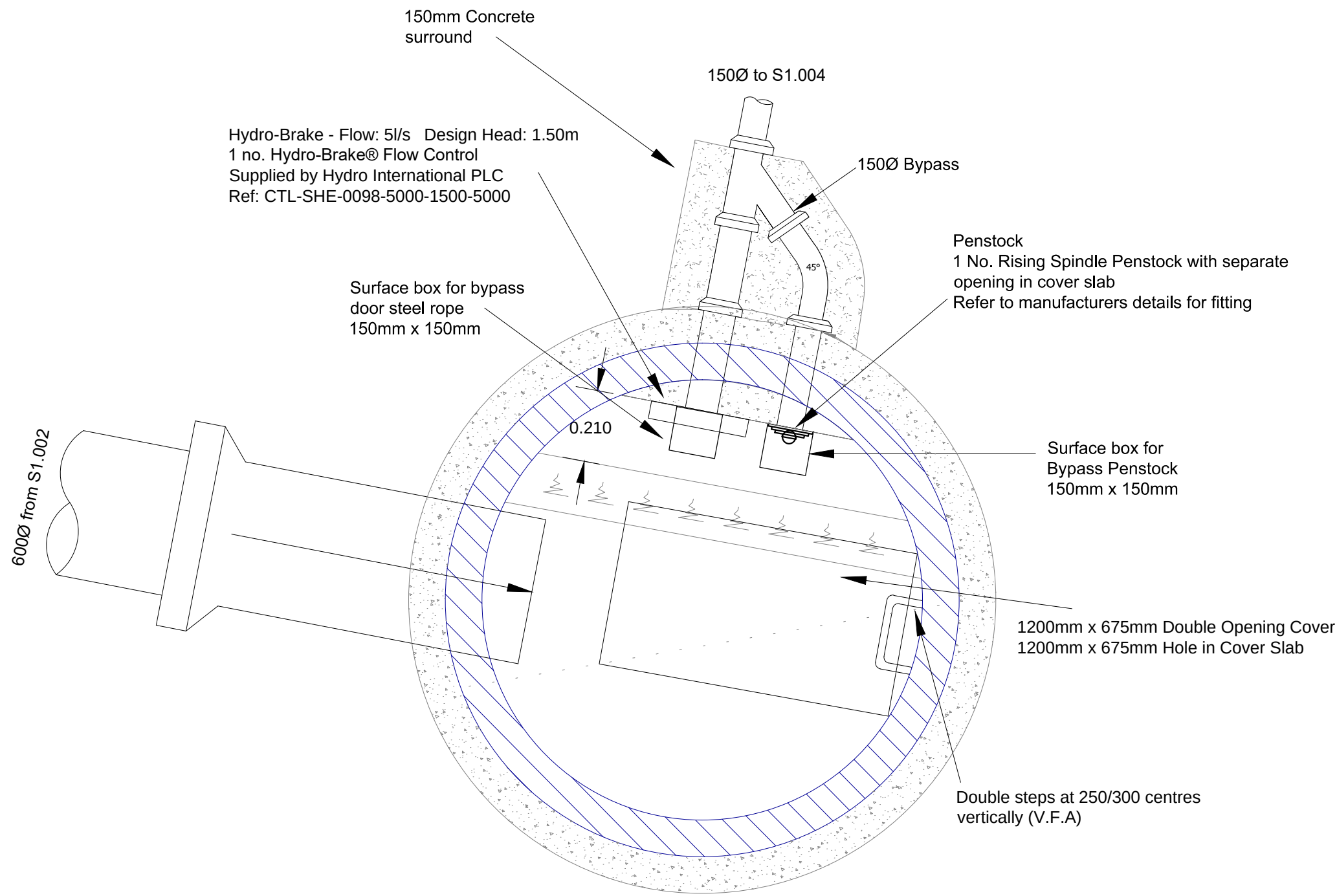
Manhole Number	Cover Level	Connections	Pipe			Manhole Size	Types	
Coordinates	Depth To Soffit		Code	Inverts	Diams		Manhole Type & Features	Cover Type, Size & Opening Size
F101	97.820		1 DO	F 1.000	95.88	150	Type 1 with Double Steps	1200x675 Central Opening
	1.790		DO DO	PRIV PRIV	95.88	150		1200x675 Eccentric D400 Cover
E. 385992.512			DO DO	PRIV PRIV	95.88	150		
N. 404159.773			0	F 1.001	95.88	150		

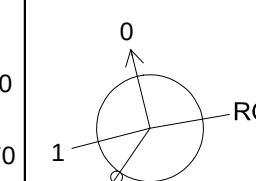
Manhole Number	Cover Level	Connections	Pipe			Manhole Size	Types		
Coordinates	Depth To Soffit		Code	Inverts	Diams		Manhole Type & Features	Cover Type, Size & Opening Size	
F102	97.650		1	F 1.001	95.28	150	Type 1 with Double Steps	750x750 Eccentric Opening	
E. 385998.466	2.220								750x750 Eccentric D400 Cover
N. 404161.512			0	F 1.002	95.28	150			

Manhole Number	Cover Level	Connections	Pipe			Manhole Size	Types	
Coordinates	Depth To Soffit		Code	Inverts	Diams		Manhole Type & Features	Cover Type, Size & Opening Size
S100	97.340		OF RG	TANK ROAD GULLY	96.20 95.90	225 150	Shallow Manhole With Double Steps and Benching Box Cut Out As Per UU Detail STND/19/004	1200x675 Eccentric Opening
E. 385956.651	1.290							1200x675 Eccentric D400 Cover
N. 404164.236			0	S 1.000	95.45	600		

Manhole Number	Cover Level	Connections	Pipe			Manhole Size	Types	
Coordinates	Depth To Soffit		Code	Inverts	Diams		Manhole Type & Features	Cover Type, Size & Opening Size
S101	97.760		1 DO	S 1.000	95.40	600	Type 4 with Double Steps	1200x675 Eccentric Opening
	1.760		DO DO	PRIV PRIV	95.85	150		1200x675 Eccentric D400 Cover
E. 385969.630			RG RG	ROAD GULLY	95.85	150		
N. 404161.808			0	S 1.001	95.40	600		

Manhole Number	Cover Level	Connections	Pipe			Manhole Size	Types	
Coordinates	Depth To Soffit		Code	Inverts	Diams		Manhole Type & Features	Cover Type, Size & Opening Size
S102	97.920		1 DO	S 1.001	95.32	600	Type 4 with Double Steps	1200x675 Eccentric Opening
E. 385990.352	1.970		DO DO	PRIV PRIV	95.77	150		1200x675 Eccentric D400 Cover
N. 404158.044			0	S 1.002	95.32	600		



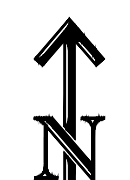
Manhole Number	Cover Level	Connections	Pipe			Manhole Size	Types		
Coordinates	Depth To Soffit		Code	Inverts	Diams		Manhole	Cover	
S103 DESIGN DEPTH: 1.500m DESIGN FLOW: 5.0m³ CTL SHE: 0096-5000-1500-5000	97.650		1 RG DO	1.002 ROAD GULLY BACKDROP (PRIVATE)	95.28 95.70 96.68	600 150 150	1800	Flow Control Chamber Double Steps	1200x675 Eccentric Opening
E. 386000.520	1.770								1200x675 Eccentric D400 Cover
N. 404160.550				0	1.003	95.28			150

ALL COVER & INVERT LEVEL INFORMATION HAS BEEN TAKEN FROM AVAILABLE TOPOGRAPHICAL SURVEY DATA OR UNITED UTILITIES AND CCTV REPORT. EXISTING PUBLIC WATER SEWERS ARE TO BE ABOVE GROUND PROBED, ROUTED AND INTERNALLY SURVEYED WITH ALL INFORMATION PASSED TO CARLEY DAINES AND PARTNERS FOR REVIEW PRIOR TO COMMENCEMENT ON SITE

NOTES

0m1m2m

1: 20 scale bar



SITE LOCATION
CHAIN ROAD,
BLACKLEY,
MANCHESTER.
M9 ORD.
EASTINGS: 386000;
NORTHINGS: 404140.

1. ALL DRAINAGE WORKS HAVE BEEN DESIGNED AND ARE TO BE CONSTRUCTED IN ACCORDANCE WITH BUILDING REGULATIONS DOCUMENT H & "SEWERS FOR ADOPTION 6TH EDITION" SUPPLEMENT GUIDELINES AND STANDARD DETAILS

2. ALL CLAY PIPE WORK SHALL BE EXTRA STRENGTH CLAYWARE TO B.S EN 295:1992 PART 1

3. ALL PRECAST CONCRETE PIPEWORK SHALL BE TO THE CLASS STATED ON THE DRAWINGS IN ACCORDANCE WITH B.S EN 1916:2002. ALL MANHOLES AND CHAMBERS SHALL BE TO BS EN 1917:2002

4. THE CONTRACTOR MAY ELECT TO USE REINFORCED PVC PIPES AS COVERED BY B.S-460:2000 & B.S EN 1403-1. STRUCTURED WALL UPVC PIPES TO COMPLY WITH WIS 4-35:01. (BY PRIOR AGREEMENT WITH ADOPTING AUTHORITY) MAX PIPE LENGTH TO BE 3.0M

5. ALL LEVELS RELATE TO TOPOGRAPHICAL SURVEY DATUM.

6. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS

7. PLOT DRAINAGE CONNECTIONS TO SEWERS MUST BE 150MM DIAMETER AND UNLESS OTHERWISE STATED LAID TO THE INVERT SHOWN.

8. ALL INSPECTION CHAMBERS TO BE 600mm DIAMETER FGS VITROPPYLENE WITH A MAXIMUM DEPTH OF 1200mm FOR THE STANDARD UNIT & A MAXIMUM DEPTH OF 3000mm WHEN A 350mm REDUCING RING IS USED.

9. ALL PLOT DRAINAGE RUNS TO BE 100mm DIAMETER AT A NOMINAL FALL OF 1:80 UNLESS NOTED OTHERWISE.

10. RIDDING EYES AT START OF EACH DRAINAGE RUN.

11. ALLOW FOR 5.0M OF 'ACO' DRAINAGE CHANNEL PER PROPERTY AT HIGHWAY BOUNDARY.

12. SURFACE WATER FROM PLOT PARKING AREAS MUST NOT DISCHARGE ONTO THE HIGHWAY.

13. PLOT DRAINAGE RUNS TO BE KEPT WITHIN THE CURTILAGE OF THE PLOT THEY SERVE WHEREVER POSSIBLE.

14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ANY EXISTING INVERT LEVELS INDICATED ON DRAWINGS ARE CORRECT BEFORE THE WORKS ARE COMMENCED.

15. ALL CONNECTIONS TO ADAPTABLE SEWERS SHALL BE MANUFACTURED JUNCTION PIPES. SADDLE CONNECTIONS WILL NOT BE PERMITTED UNLESS SPECIFIED.

16. ALL SEWERS FOR ADOPTION WITH GREATER THAN 1.20M COVER IN ROADS OR 0.9M COVER IN FIELDS SHALL HAVE CLASS S GRANULAR BED AND SURROUND.

17. ANY SEWER WITH LESS THAN 1.2M COVER IN ROADS OR 0.9M COVER IN FIELDS SHALL HAVE A MINIMUM OF 150MM ST4 CONCRETE SURROUND. FLEXIBILITY SHALL BE MAINTAINED BY THE PROVISION OF FLEXICELL OR SIMILAR APPROVED JOINT FILLER BREAKS IN THE CONCRETE SURROUND AT EACH PIPE JOINT.

18. IT IS THE RESPONSIBILITY FOR THE CONTRACTOR TO CHECK ALL ONSITE EXISTING GROUND LEVELS PRIOR TO COMMENCING AND IF THERE ARE ANY DISCREPANCIES THE CONTRACTOR MUST REPORT TO THE ENGINEER IMMEDIATELY.

19. CONTRACTOR TO CONFIRM THE COVER LEVEL, INVERT LEVEL & MANHOLE SIZE FOR THE EXISTING MANHOLE PRIOR TO CONTRACT START DATE.

20. ALL DRAINAGE SHOWN IN THIS DRAWING IS BASED ON ESTIMATES AND IS ALL SUBJECT TO A FURTHER DETAILED DESIGN STAGE AND IS SUBJECT TO CHANGE.

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25/02/22

INITIAL ISSUE FOR S104 APPROVAL

REV.

DATE

DESCRIPTION

CLIENT

GREAT PLACES HOUSING GROUP
BOWKER SADLER ARCHITECTURE

Carley
Daines and
Partners Limited

Consulting Civil and Structural Engineers

11 Bridgewater Road
Worsley Manchester M28 3JE
Tel 0161 799 2720 Fax 0161 790 3474
E-mail mail@carleydaines.co.uk

WALKDEN

TITLE

CHAIN ROAD
BLACKLEY, MANCHESTER

SECTION 104 DRAWINGS
MANHOLES SCHEDULES
AND FLOW CONTROL DETAIL

Drawn AM

Checked DM

Date 25/02/2022

Date 25/02/2022

Scale 1:20

@ A1

Drawing No. 21-B-12851-206

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