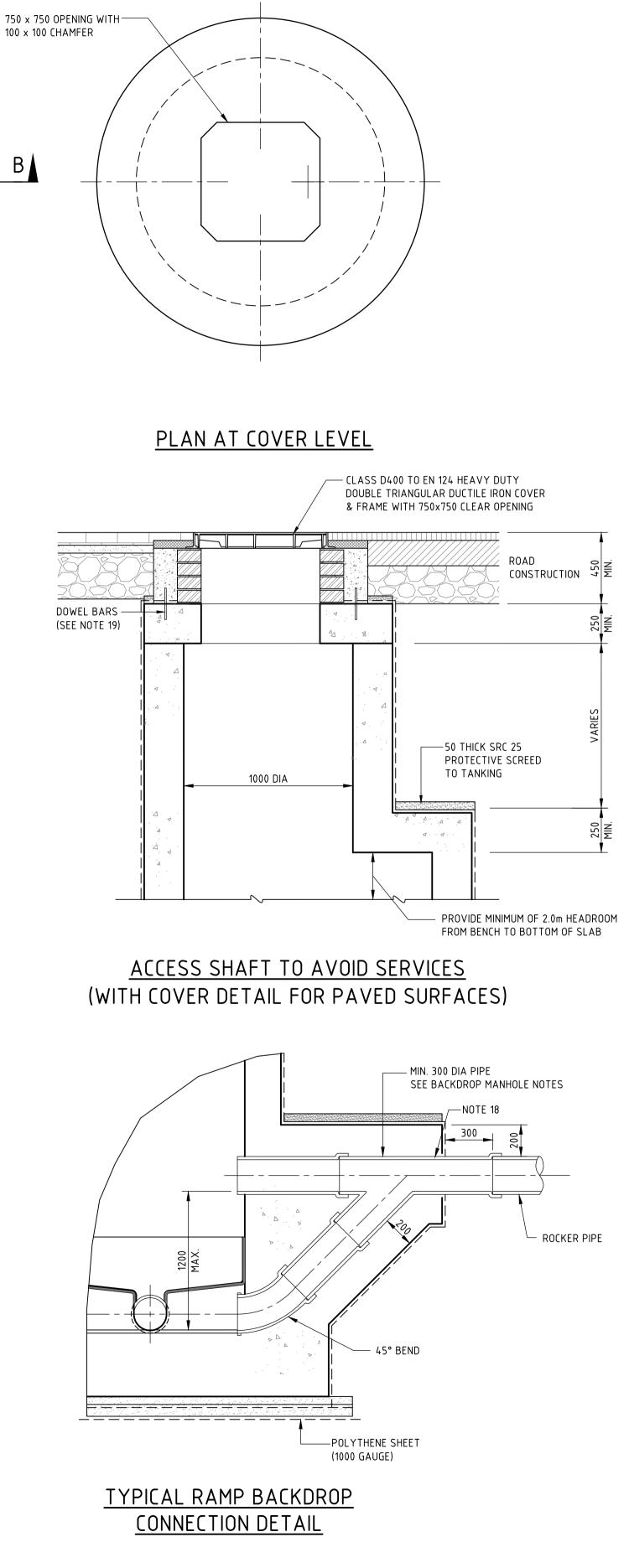
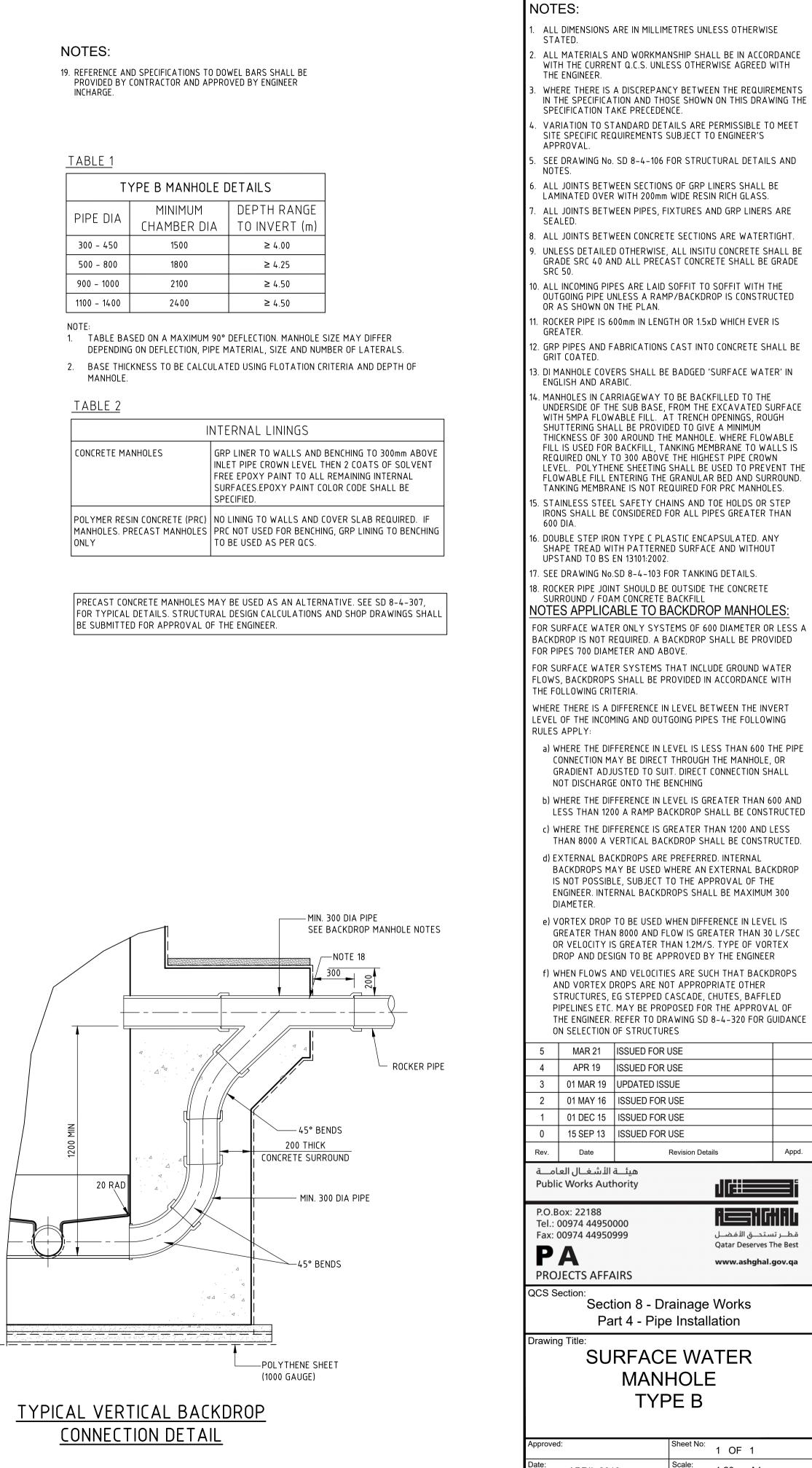


INCHARGE.

TYPE B MANHOLE DETAILS				
PIPE DIA	MINIMUM	DEPTH R		
	CHAMBER DIA	TO INVER		
300 - 450	1500	≥ 4.00		
500 - 800	1800	≥ 4.25		
900 - 1000	2100	≥ 4.50		
1100 - 1400	2400	≥ 4.50		

INTERNAL LINI		
CONCRETE MANHOLES	GRP LINER TO WAL INLET PIPE CROWN FREE EPOXY PAINT SURFACES.EPOXY SPECIFIED.	
POLYMER RESIN CONCRETE (PRC) MANHOLES. PRECAST MANHOLES ONLY	NO LINING TO WAL PRC NOT USED FOR TO BE USED AS PE	





5. SEE		SD 8-4-106	FOR STRUCTURAL DETA	ILS AND		
6. ALL			IS OF GRP LINERS SHALI			
7. ALL	LAMINATED OVER WITH 200mm WIDE RESIN RICH GLASS. ALL JOINTS BETWEEN PIPES, FIXTURES AND GRP LINERS ARE					
8. ALL 9. UNL GR4	SEALED. ALL JOINTS BETWEEN CONCRETE SECTIONS ARE WATERTIGHT. UNLESS DETAILED OTHERWISE, ALL INSITU CONCRETE SHALL BE GRADE SRC 40 AND ALL PRECAST CONCRETE SHALL BE GRADE SRC 50.					
10. ALL OUT	. INCOMING PIP	NLESS A RAM	SOFFIT TO SOFFIT WITH 1P/BACKDROP IS CONST			
11. ROC			TH OR 1.5xD WHICH EVE	R IS		
12. GRF		ABRICATIONS	G CAST INTO CONCRETE S	SHALL BE		
13. DI M			E BADGED 'SURFACE WA	TER' IN		
UNE WIT SHL FILL REG LEV FLO TAN 15. STA IROI 600	DERSIDE OF TH TH 5MPA FLOW JTTERING SHA CKNESS OF 30 LIS USED FOR QUIRED ONLY T YEL. POLYTHE WABLE FILL E WABLE FILL E NKING MEMBRA AINLESS STEE DIA. JBLE STEP IRC	IE SUB BASE, ABLE FILL. A LL BE PROVID AROUND TH BACKFILL, TA TO 300 ABOVI NE SHEETING NTERING THE ANE IS NOT RE L SAFETY CH CONSIDERED I	TO BE BACKFILLED TO TI FROM THE EXCAVATED AT TRENCH OPENINGS, R DED TO GIVE A MINIMUM IE MANHOLE. WHERE FLO ANKING MEMBRANE TO V E THE HIGHEST PIPE CRO SHALL BE USED TO PRE GRANULAR BED AND SI EQUIRED FOR PRC MANH AINS AND TOE HOLDS OF FOR ALL PIPES GREATED ASTIC ENCAPSULATED.	SURFACE OUGH WABLE VALLS IS OWN EVENT THE URROUND. OLES. R STEP R THAN ANY		
UPS	STAND TO BS	EN 13101:2002	ED SURFACE AND WITHO  FOR TANKING DETAILS.	101		
SUF	RROUND / FOA	M CONCRETE	E OUTSIDE THE CONCRET BACKFILL ACKDROP MANHC			
BACKE	DROP IS NOT R	EQUIRED. A B	TEMS OF 600 DIAMETER BACKDROP SHALL BE PR			
FOR S FLOWS		R SYSTEMS SHALL BE P	BOVE. THAT INCLUDE GROUND ROVIDED IN ACCORDANC			
LEVEL	WHERE THERE IS A DIFFERENCE IN LEVEL BETWEEN THE INVERT LEVEL OF THE INCOMING AND OUTGOING PIPES THE FOLLOWING RULES APPLY:					
a) W	VHERE THE DIF		EVEL IS LESS THAN 600 THROUGH THE MANHOL			
C		USTED TO SU	IT. DIRECT CONNECTION			
ь) м	VHERE THE DIF	FERENCE IN L	EVEL IS GREATER THAN			
c) V	VHERE THE DIF	FERENCE IS C	GREATER THAN 1200 AN	D LESS		
d) E	XTERNAL BAG	KDROPS ARE	PREFERRED. INTERNAL			
19	S NOT POSSIB	LE, SUBJECT	WHERE AN EXTERNAL B, TO THE APPROVAL OF T ROPS SHALL BE MAXIMI	ΉE		
D	IAMETER.		WHEN DIFFERENCE IN LE			
G	REATER THAN	N 8000 AND F	LOW IS GREATER THAN HAN 1.2M/S. TYPE OF V	30 L/SEC		
D	ROP AND DES	IGN TO BE AP	PROVED BY THE ENGINE	EER		
Д	ND VORTEX D	ROPS ARE NO	DT APPROPRIATE OTHEF CASCADE, CHUTES, BAF	२		
P T	PIPELINES ETC.	MAY BE PRO REFER TO DR	POSED FOR THE APPRO AWING SD 8-4-320 FOR	VAL OF		
5	MAR 21 APR 19	ISSUED FOR				
3	01 MAR 19	UPDATED ISS				
2	01 MAY 16	ISSUED FOR				
1 0	01 DEC 15 15 SEP 13	ISSUED FOR				
Rev.	Date		Revision Details	Appd.		
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	JECTS AFFA	AIRS				
3 C S S			rainage Works e Installation			
Drawin	ng Title: SU		E WATER HOLE			
			PEB			
Approve	d:		Sheet No: 1 OF 1			
Date: APRIL 2019			Scale: 1:20 on A1			
Drawing		-		_		
	Number:	<b>D</b>		Revision:		
	Number:	D 8-4-3		Revision: 5		