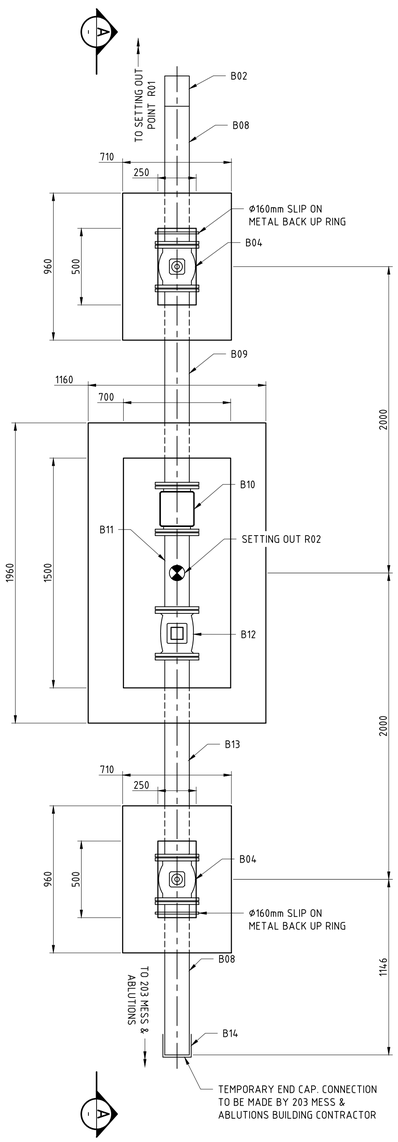
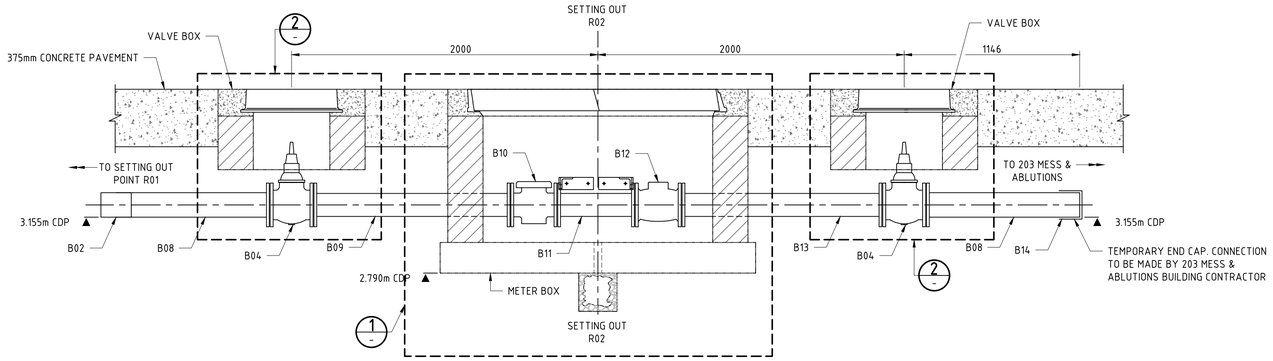
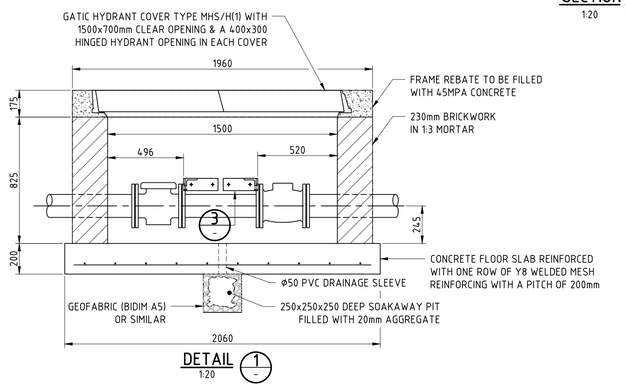
DO NOT SCALE - IF IN DOUBT, ASK



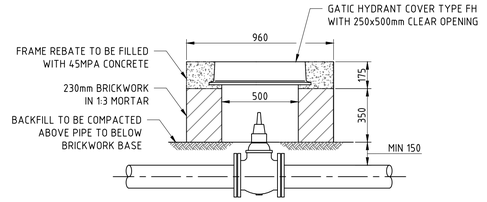
PLAN: 203 MESS & ABLUTIONS WATER CONNECTION SETUP
1:20



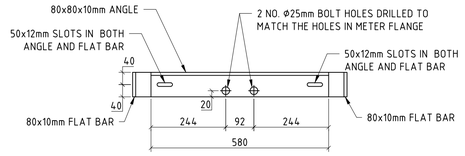
SECTION A
1:20



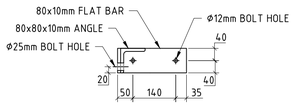
DETAIL 1
1:20



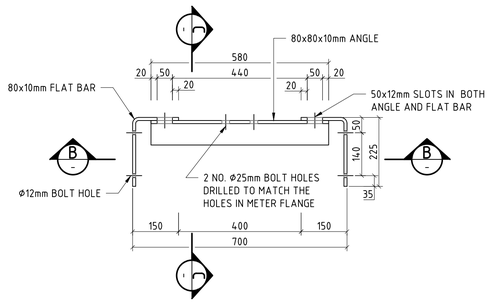
DETAIL 2
1:20



SECTION B
1:10



SECTION C
1:10



DETAIL 3
1:10

NOTES:

1. VALVES
1.1. GATE VALVES SHALL BE CAST IRON FLANGED RESILIENT SEAL TYPE, COMPLYING TO SANS 664 CLASS 16.
1.2. GATE VALVES SHALL BE CLOCKWISE CLOSING AND SHALL HAVE RISING SPINDLES.

2. WATER METERS
2.1. THE WATER METER IS TO BE A ELSTER KENT HELIX H4000 WOLTMAN TYPE METER OR SIMILAR APPROVED

3. FLANGES
3.1. ALL FLANGES SHALL COMPLY WITH SANS 1123 TABLE 15.
3.2. THE JOINTING MATERIAL USED ON FLANGE JOINTS SHALL BE A 3mm NEOPRENE RUBBER INSERTION.
3.3. FULL FACE GASKETS SHALL BE USED ON ALL JOINTS.
3.4. ALL BURIED FLANGED JOINTS SHALL BE COVERED WITH DENSO MASTIC AND WRAPPED WITH DENSO TAPE.
3.5. ANY BOLTS, NUTS, WASHERS & BACK UP RINGS USED ON FLANGES ARE TO BE STAINLESS STEEL GRADE 316 STAINLESS STEEL TO ASTM 240.

4. FASTENERS
4.1. BOLTS, NUTS AND WASHERS USED ON PIPE SUPPORT FRAMES SHALL BE COATED WITH A ZINC COATING APPLIED BY THERMO DIFFUSION COATING (SHERARDIZING) IN ACCORDANCE WITH BS EN 13811:2003.

5. VALVE SUPPORT BRACKETS
5.1. VALVE SUPPORT BRACKETS ARE TO BE HOT DIP GALVANISED AFTER FABRICATION

6. HDPE PIPES
6.1. HDPE PIPES ARE TO BE PE 100 CLASS 16 WITH A STANDARD DIAMETER RATIO OF 11 IN ACCORDANCE WITH ISO 4427.
6.2. HDPE PIPES ARE TO BE JOINED TOGETHER BY ELECTROFUSION COUPLING IN ACCORDANCE WITH SANS 10286 PART 2.
6.3. COUPLINGS MAY NOT HAVE A PRESSURE RATING LOWER THAN THAT OF THE PIPES BEING JOINED TOGETHER.

7. CONCRETE
7.1. ALL CONCRETE IS TO HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 40MPa.

8. MANHOLES
8.1. MANHOLE COVER TO BE A GATIC F900 TYPE DMR WITH A 600x600mm CLEAR OPENING.

7. BLINDING
7.1. THE BLINDING LAYER SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 15MPa

MARK	COMPONENT	NO. OF	DESCRIPTION
B02	198	1 **	Ø160mm HDPE ELECTROFUSION COUPLING
B04	280	2	Ø150mm CAST IRON STRAIGHT THROUGH GATE VALVE.
B08	1000	2	Ø160mm HDPE SPOOL PIECE 1000mm LONG WITH Ø160mm SLIP ON METAL BACK UP RING. ONE END FLANGED. ONE END PLAIN.
B09	1280	1	Ø150mm CAST IRON SPOOL PIECE 1280mm LONG. BOTH ENDS FLANGED.
B10	300	1	Ø150mm CAST IRON INLINE STRAINER. BOTH ENDS FLANGED.
B11	500	1	Ø150mm CAST IRON SPOOL PIECE 500mm LONG. BOTH ENDS FLANGED.
B12	300	1	Ø150mm WATER METER.
B13	1300	1	Ø150mm CAST IRON SPOOL PIECE 1300mm LONG. BOTH ENDS FLANGED.
B14		1	Ø160mm TEMPORARY HDPE END CAP

++ QUANTITY ONLY APPLIES TO COUPLINGS FOR SPECIAL FITTINGS ONLY. STANDARD PIPE LENGTHS ARE TO BE SUPPLIED COMPLETE WITH COUPLINGS.

1785-CO-120-C-DWG-0001-01 | WATER SUPPLY GENERAL ARRANGEMENT
DRAWING NO. | REFERENCE

REFERENCE DRAWINGS

Engineers
ZAA ENGINEERING PROJECTS & NAVAL ARCHITECTS
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PROJECT NO	DIS CODE	AREA	DISP	TYPE	DRG NO	SHEET	STATUS	REV
1785	CO	120	C	DWG	0002	08	T	0A

NO.	DESCRIPTION	BY	CHK'D	APP'D	DATE
0A	ISSUED FOR TENDER	DC	MC	JZ	2019.07.26

REVISIONS / ISSUE AUTHORIZATION

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EPCM CONSULTANT: TNPA

TITLE	NAME	SIGNATURE	DATE
LEAD DES. ENG.			
ENG. COORD.			
ENG. MANAGER			
AREA MANAGER			
PROJECT MGR.			
DIVISION			

DIV.	TITLE	NAME	SIGNATURE	DATE

ORIGINATOR: ZAA

TITLE	NAME	SIGNATURE	DATE
DRAWN	DC	DC	19 07 26
CHECKED	MC	MC	19 07 26
ENG. COORD.			
DISCIP. ENG.			
ENG. MANAGER			
AREA MANAGER			

PR.ENG. / PR.TECH.

NAME	SIGNATURE	DATE
J. ZIETSMAN	J. Zietsman	19 07 26

REG. NUMBER 760293

SCALE : OR AS NOTED | A1

Transnet National Ports Authority
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DURBAN
P.O. BOX 31683, DURBAN
TEL: 031 361 8852

PORT OF DURBAN

DCT BERTHS 203 to 205 RECONSTRUCTION DEEPENING AND LENGTHENING

WATER SUPPLY TYPICAL DETAILS SHEET 8 OF 9

PROJECT NUMBER	DV	FBS	DIS	TYPE	DRG. NO.	SHT.	REV.	ID
212283	0	1	120	C	GA	1001	08	0A DC