

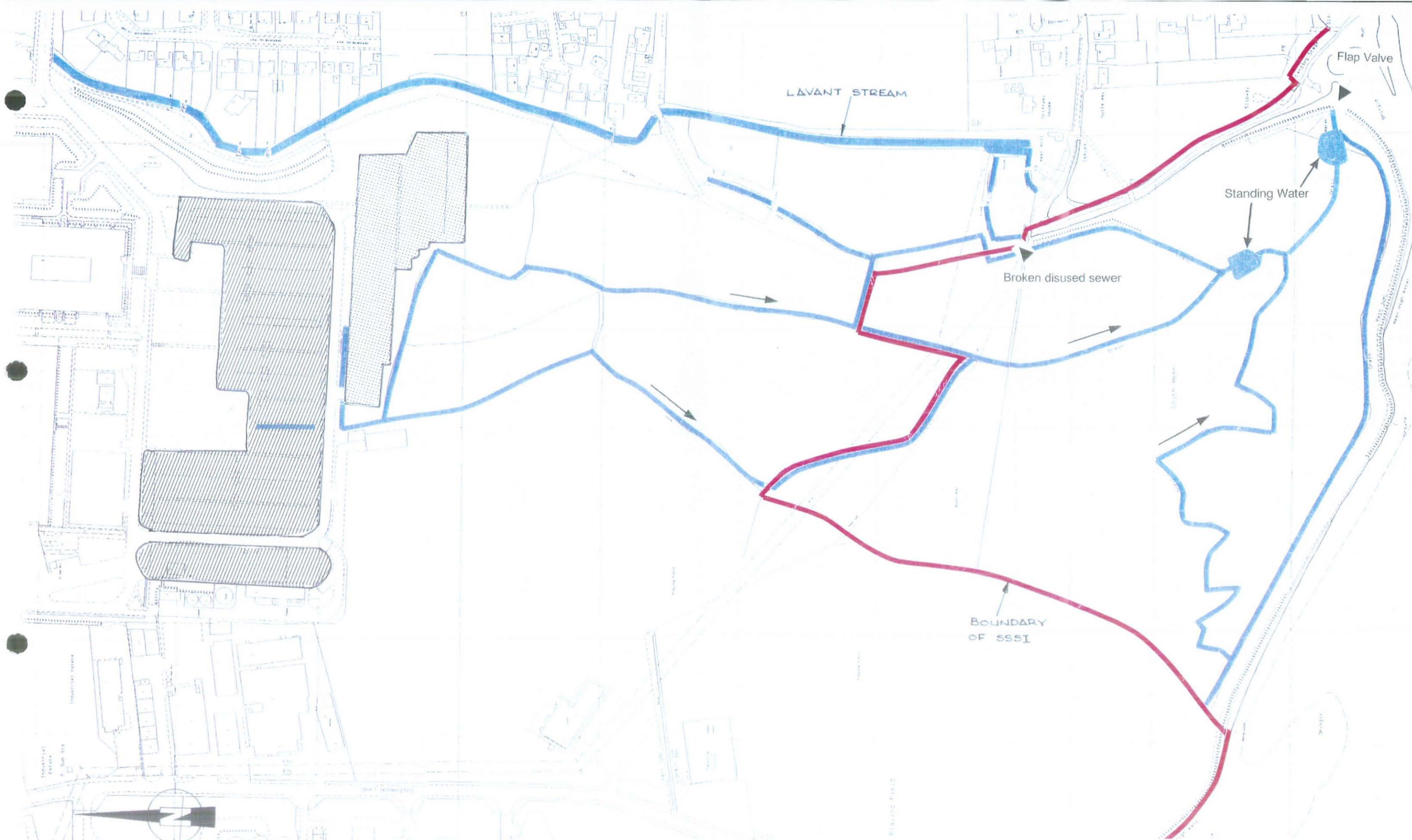


IBM LAND AT SOUTH MOOR, HAVANT

Location of NRA Monitoring Wells.

SYMONDS
TRAVERS MORGAN

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K			June'96	1:50 000		Figure 7.4	



BASED ON ORDNANCE SURVEY MAPPING
 REPRODUCED BY SYMONDS TRAVERS
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Key



- Ditches
- Area draining to ditch system
- Area draining to soakaway

IBM LAND AT SOUTH MOOR, HAVANT

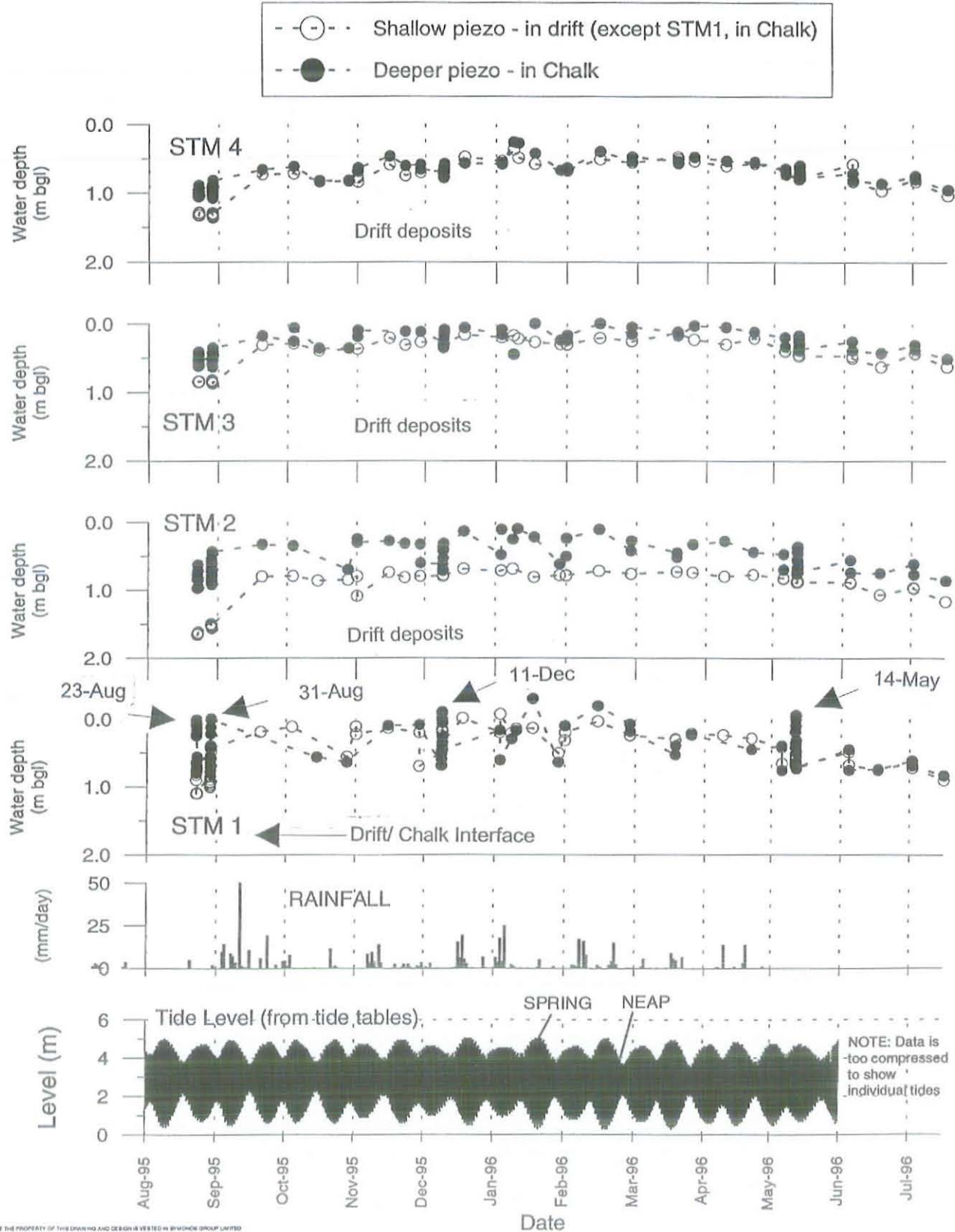
LAND DRAINAGE REGIME
 PRIOR TO 1995 DEVELOPMENT

**SYMONDS
 TRAVERS MORGAN**

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<i>[Signature]</i>			June '96	1:2500	E.C.	Figure 8.1	



REV

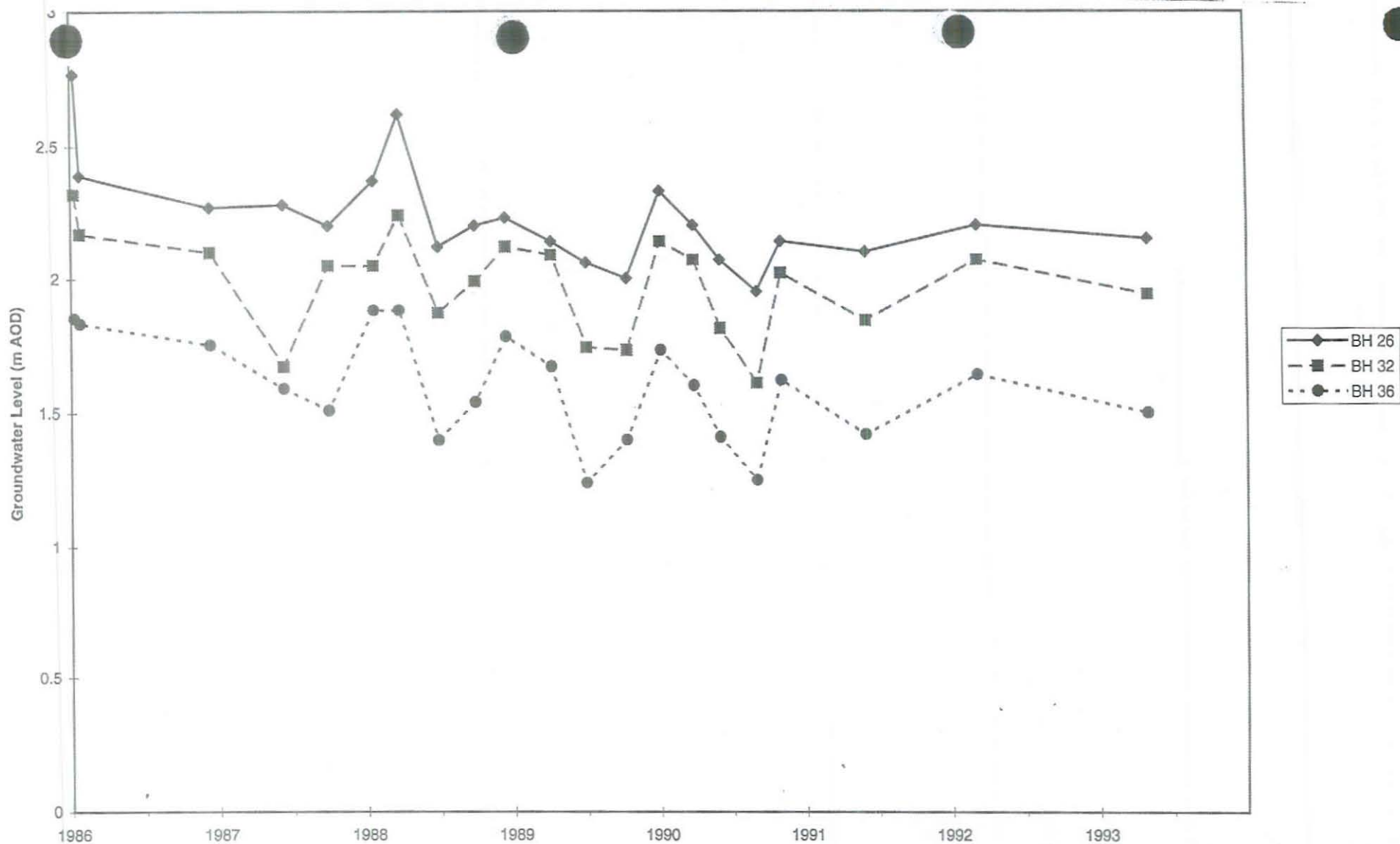


IBM LAND AT SOUTH MOOR, HAVANT

Groundwater levels in STM boreholes
throughout period of study

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IBM LAND AT SOUTH MOOR, HAVANT

Groundwater Level Fluctuation
1985 - 1993 to the North of SSSI

SYMONDS
TRAVERS MORGAN

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K

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DATE

June'96

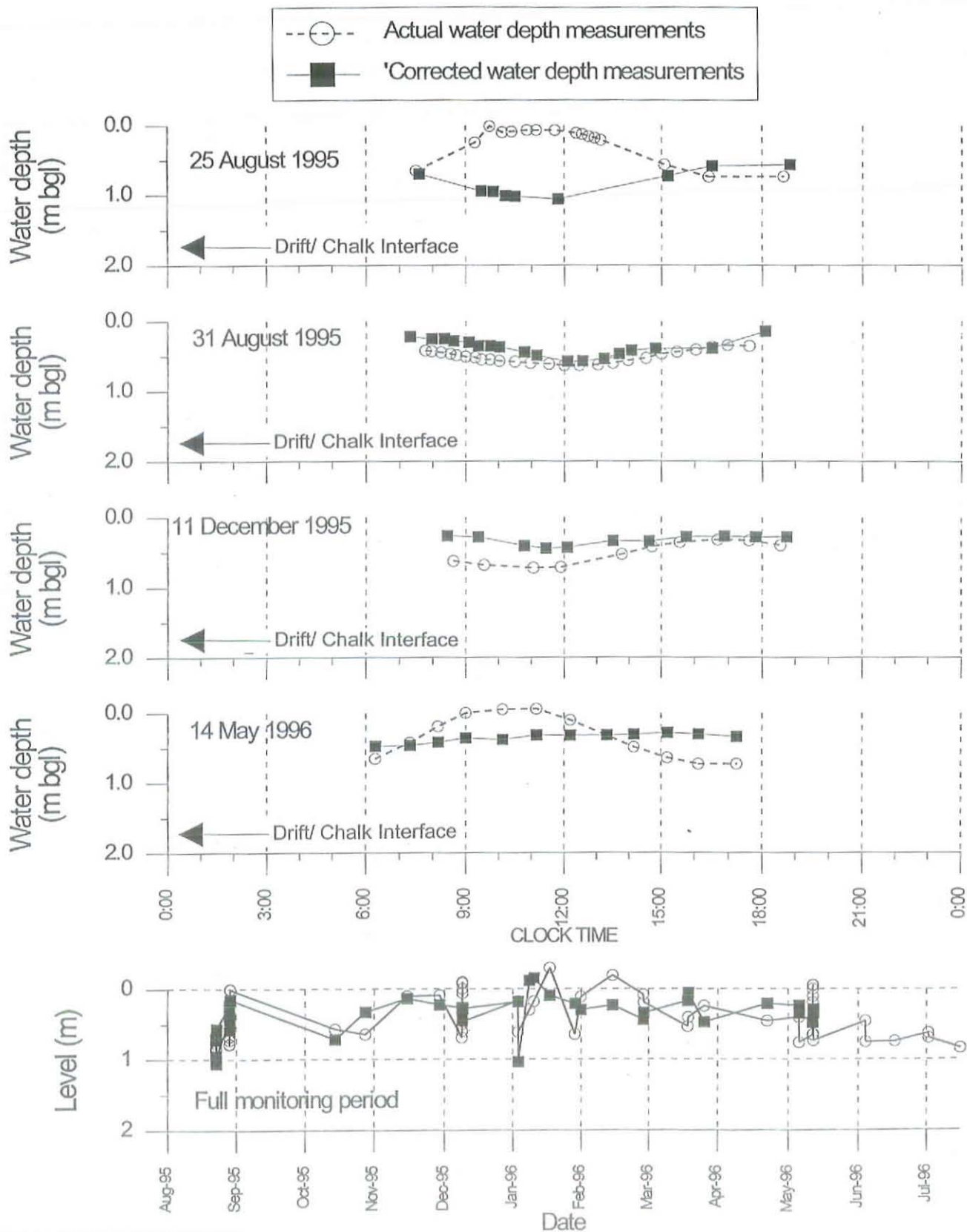
SCALES

ISSUING OFFICE

DRAWING NUMBER

Figure 7.1

REV



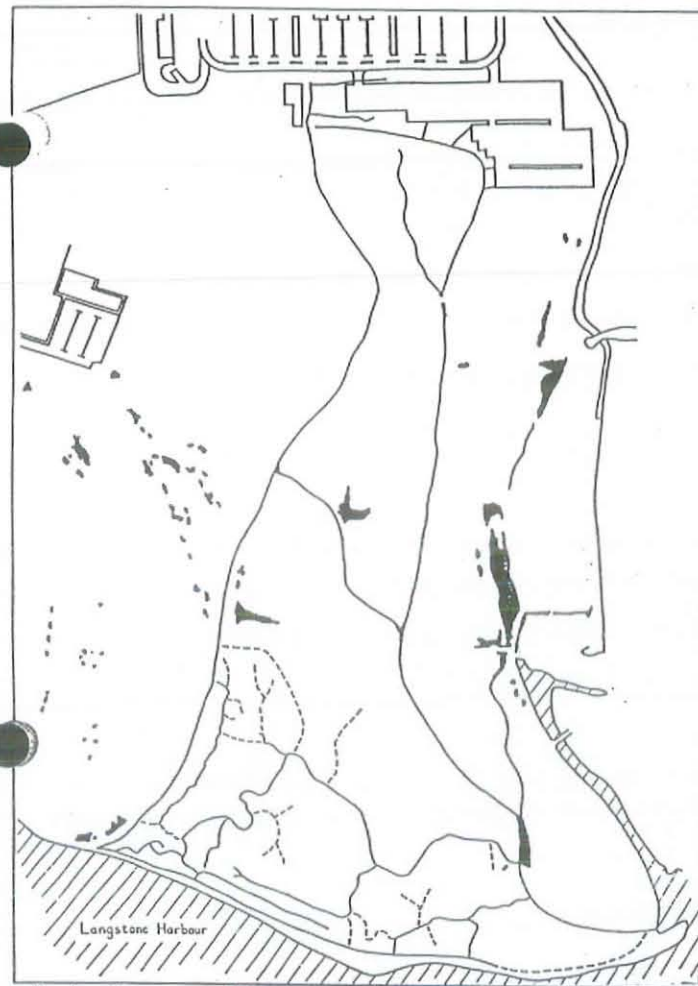
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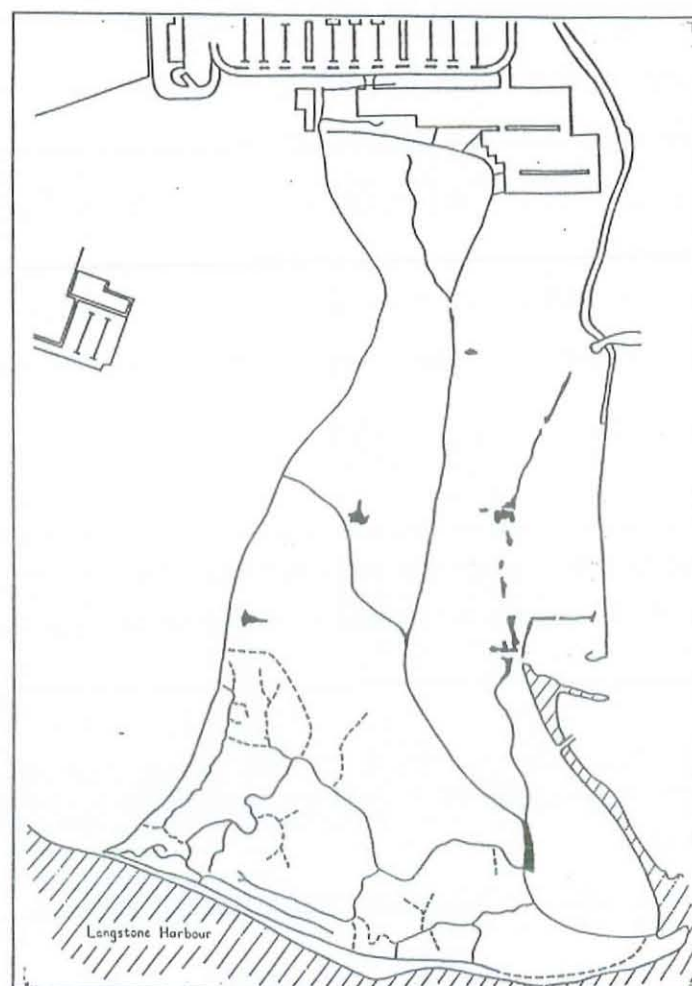
Actual and 'Corrected' Groundwater levels in STM1shallow piezo

SYMONDS
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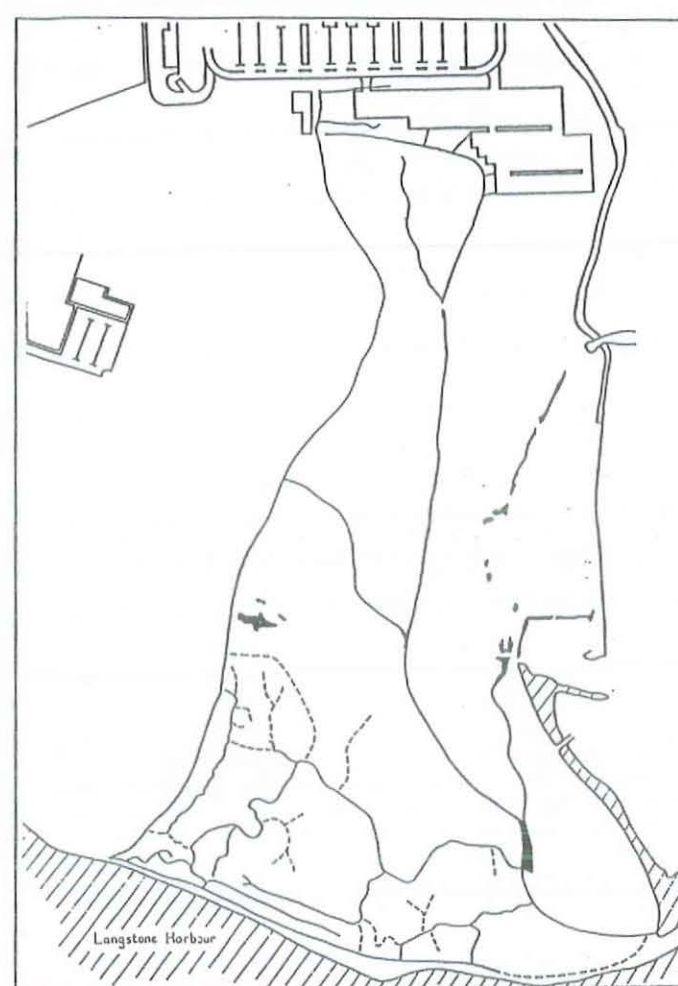
DRAWN BY PHE	CHECKED BY	PASSED BY	DATE AUG 1996	SCALES @ A4	ISSUING OFFICE	DRAWING NUMBER Figure 7.10	REV
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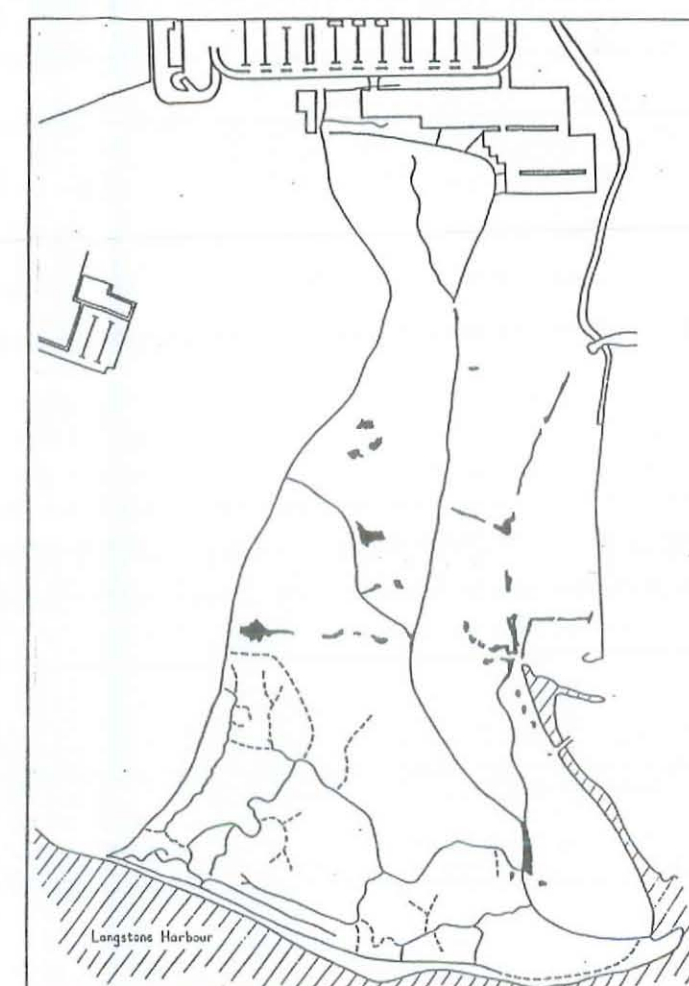
Early January, 1986



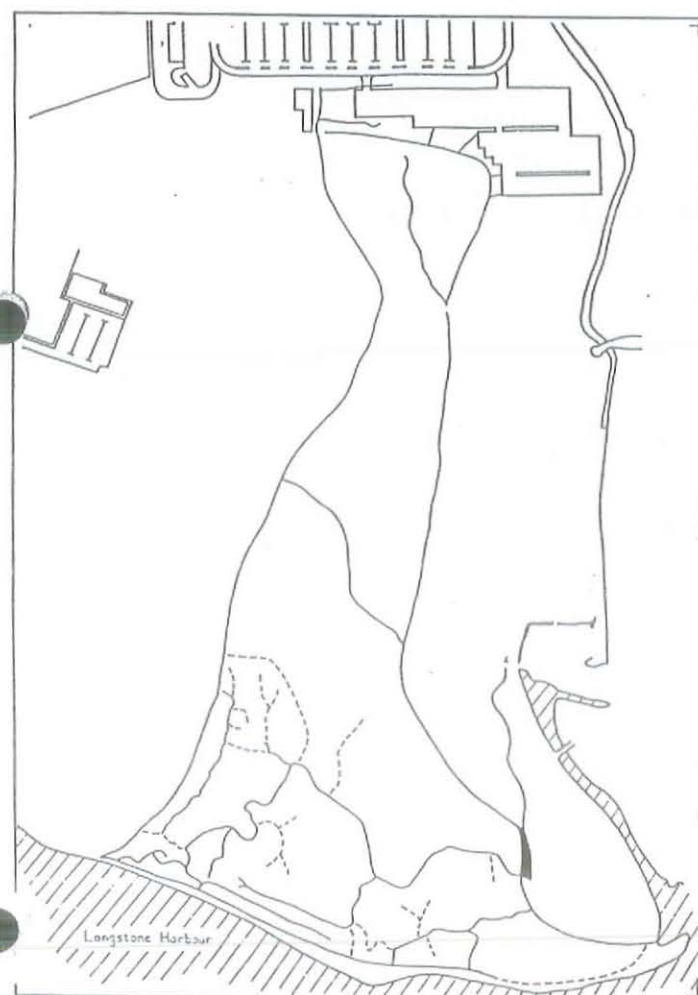
Mid March, 1986



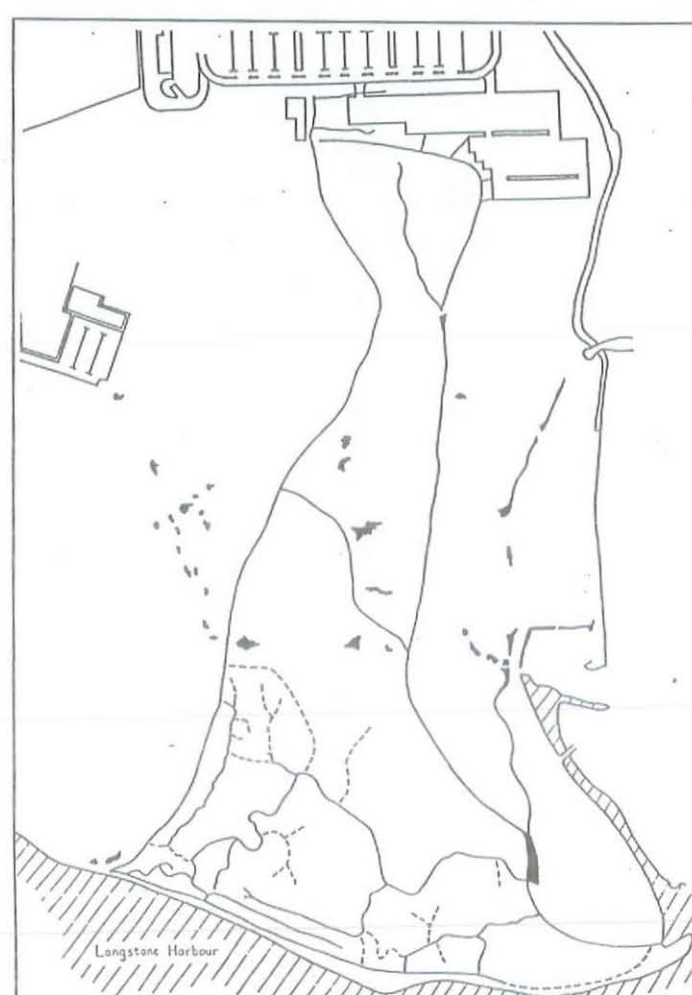
Mid May, 1986



End of May, 1986



Mid June, 1986



Mid August, 1986

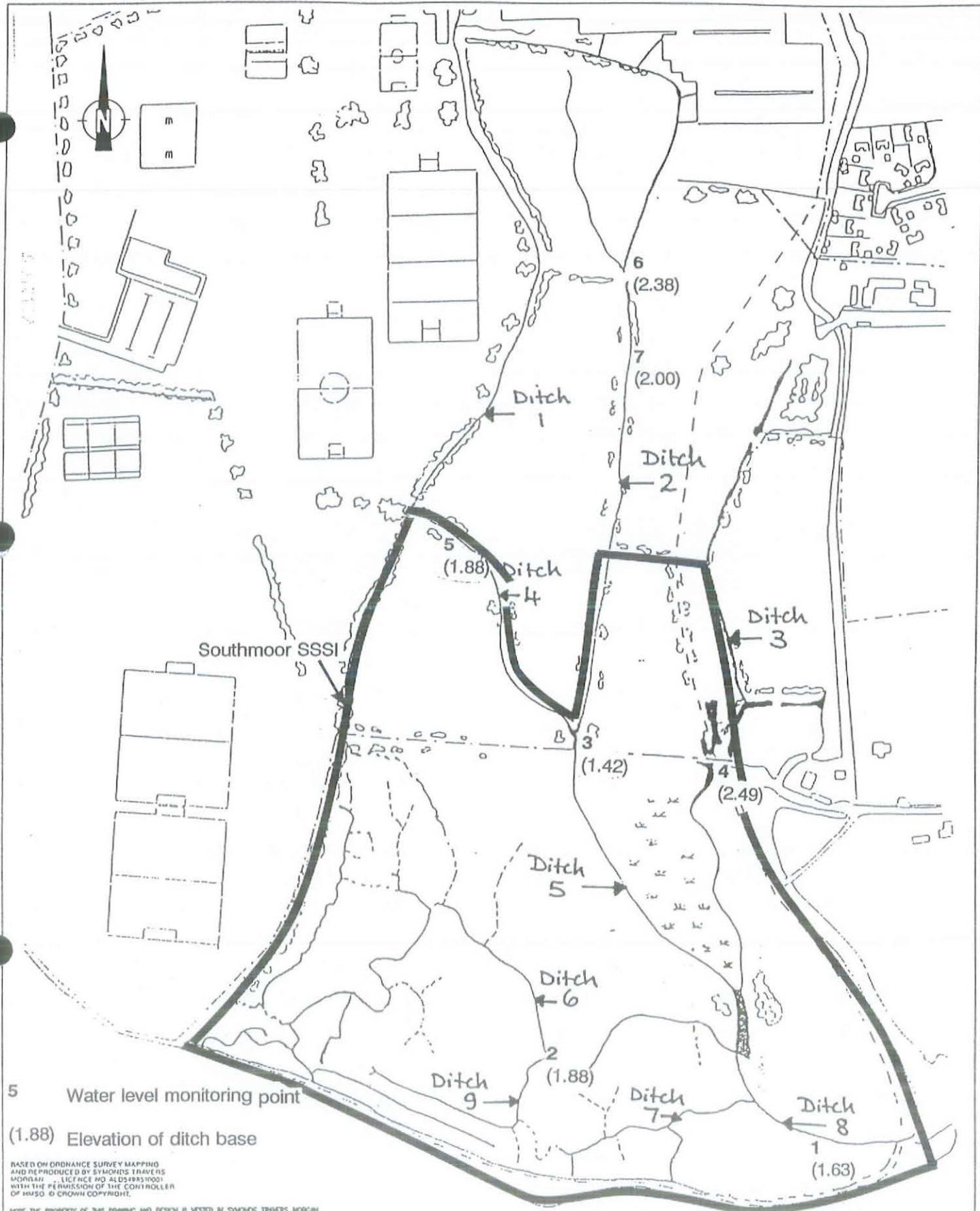
Reproduced from Bostock, Hill and Rigby IBM Havant Report 1987

IBM LAND AT SOUTH MOOR, HAVANT

Variations in Standing Water
Distribution - 1986.

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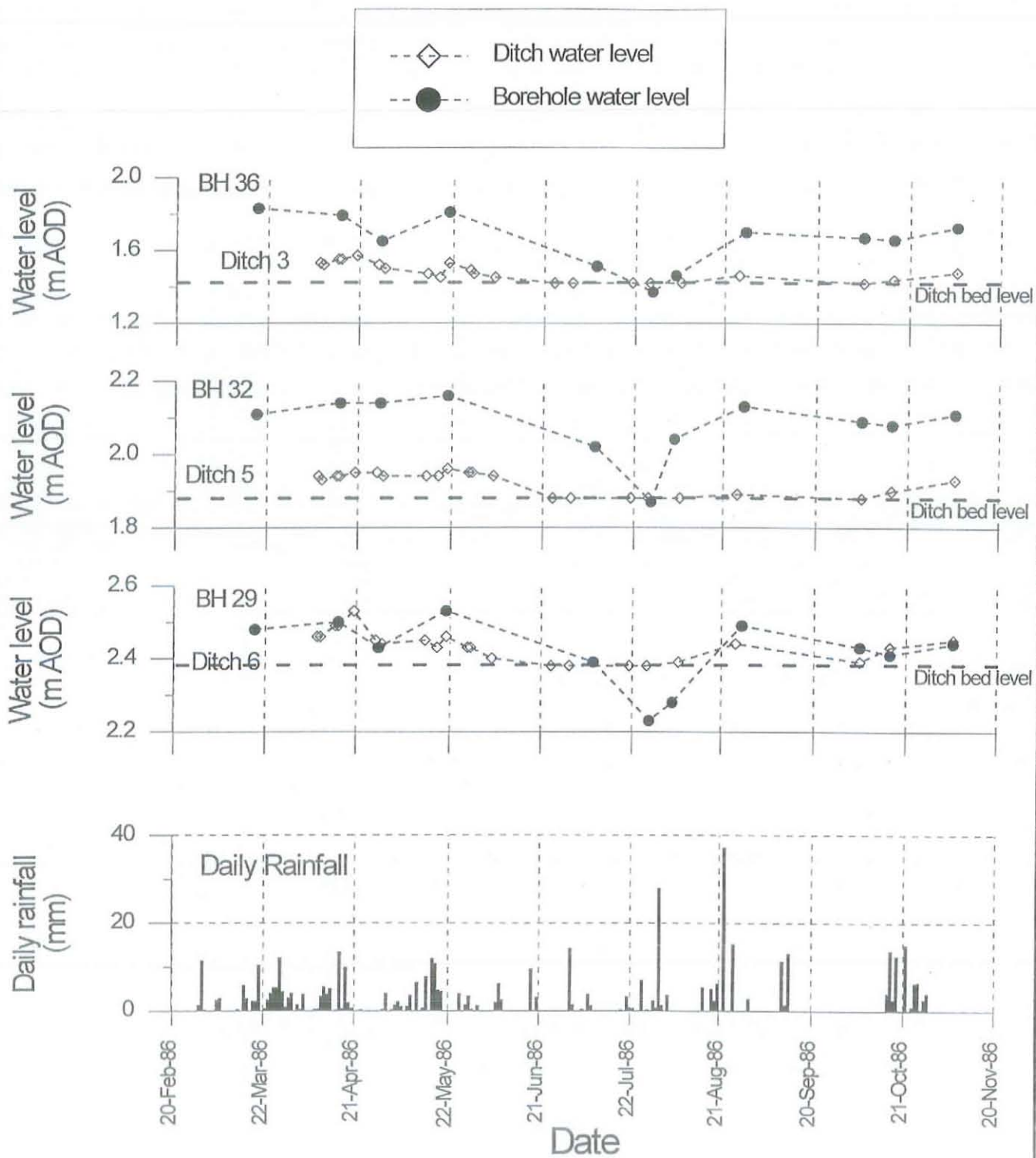


IBM LAND AT SOUTH MOOR, HAVANT

Ditch Level Monitoring Points in
Bostock, Hill and Rigby Study.
(Different from STM designations, Figure 9.1)

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TRAVERS MORGAN

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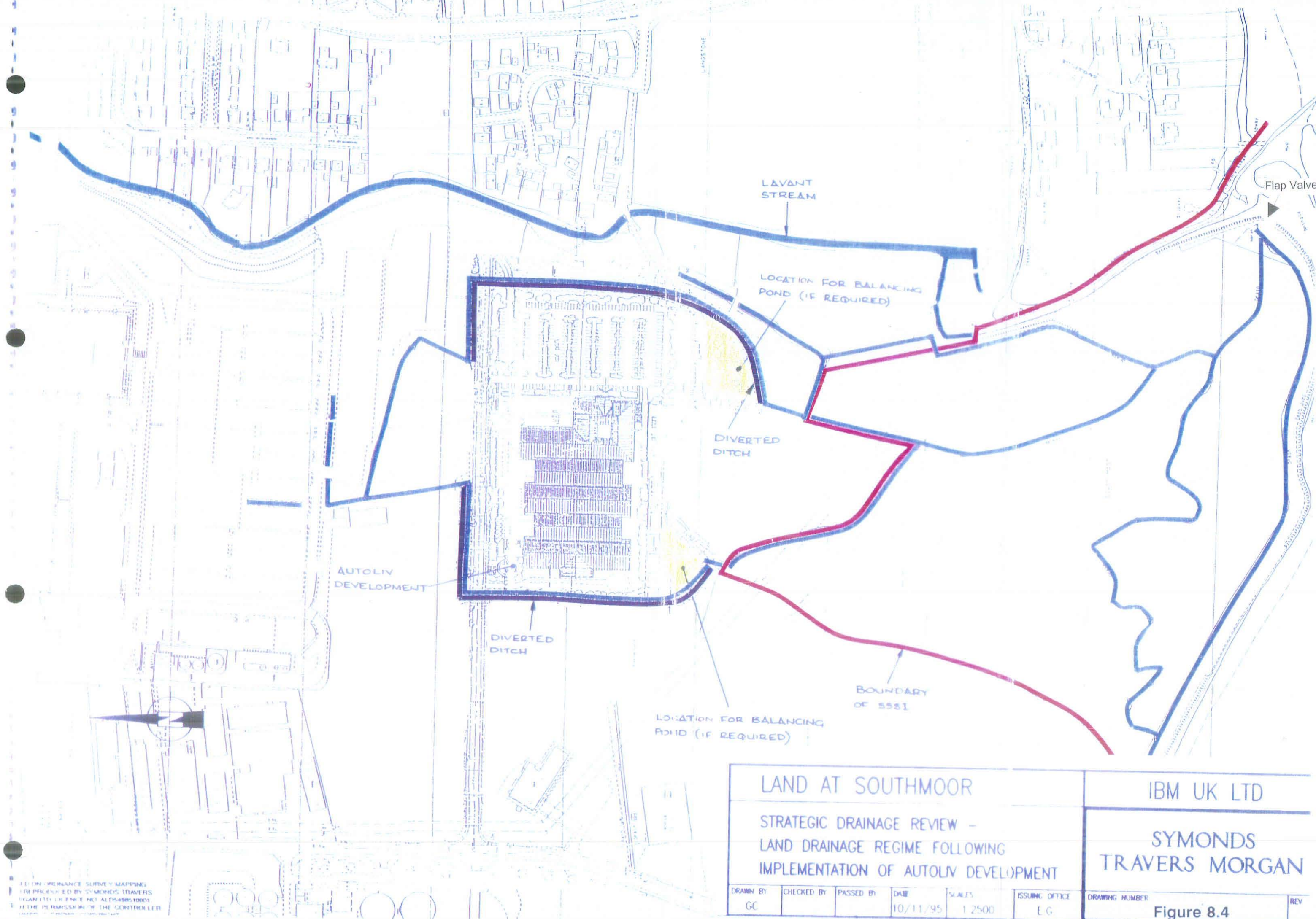
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Comparison of borehole and ditch
water levels
(after Bostock, Hill and Rigby, 1986)

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LAND AT SOUTHMOOR

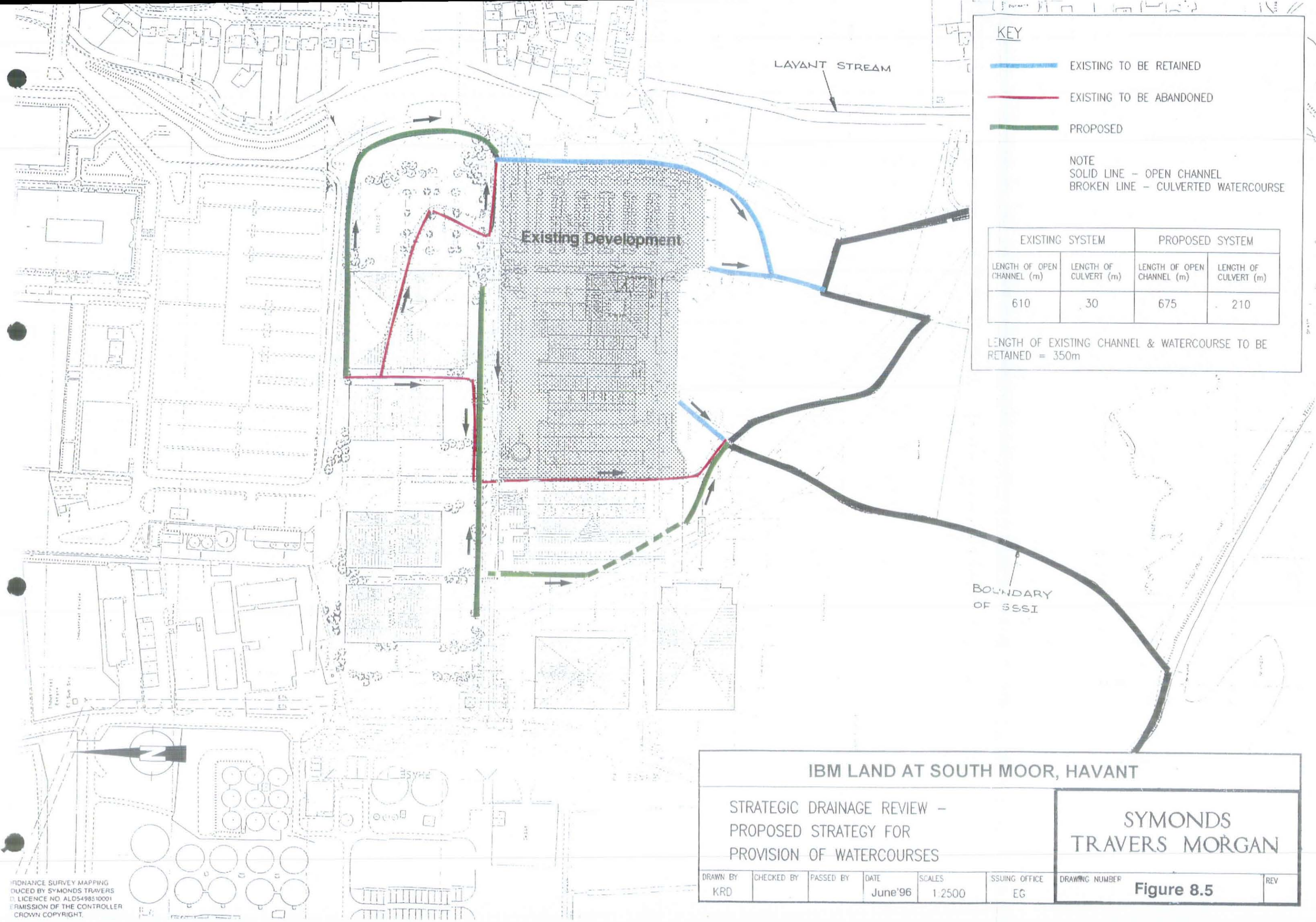
STRATEGIC DRAINAGE REVIEW -
 LAND DRAINAGE REGIME FOLLOWING
 IMPLEMENTATION OF AUTOLIV DEVELOPMENT

IBM UK LTD

SYMONDS
 TRAVERS MORGAN

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 4. IN THE PERMISSION OF THE CONTROLLER



KEY

- EXISTING TO BE RETAINED
- EXISTING TO BE ABANDONED
- PROPOSED

NOTE
 SOLID LINE - OPEN CHANNEL
 BROKEN LINE - CULVERTED WATERCOURSE

EXISTING SYSTEM		PROPOSED SYSTEM	
LENGTH OF OPEN CHANNEL (m)	LENGTH OF CULVERT (m)	LENGTH OF OPEN CHANNEL (m)	LENGTH OF CULVERT (m)
610	30	675	210

LENGTH OF EXISTING CHANNEL & WATERCOURSE TO BE RETAINED = 350m

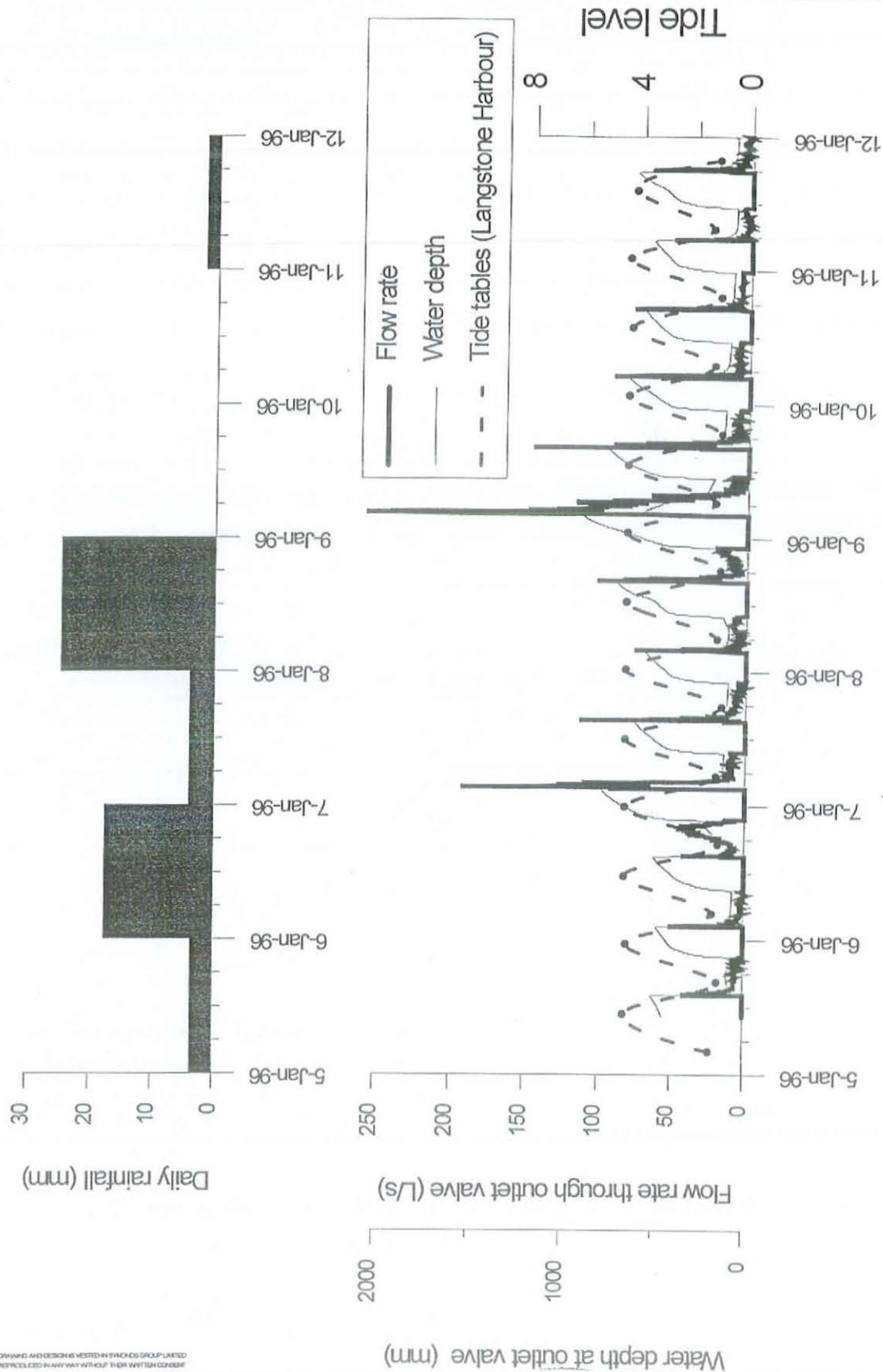
IBM LAND AT SOUTH MOOR, HAVANT

STRATEGIC DRAINAGE REVIEW -
 PROPOSED STRATEGY FOR
 PROVISION OF WATERCOURSES

**SYMONDS
 TRAVERS MORGAN**

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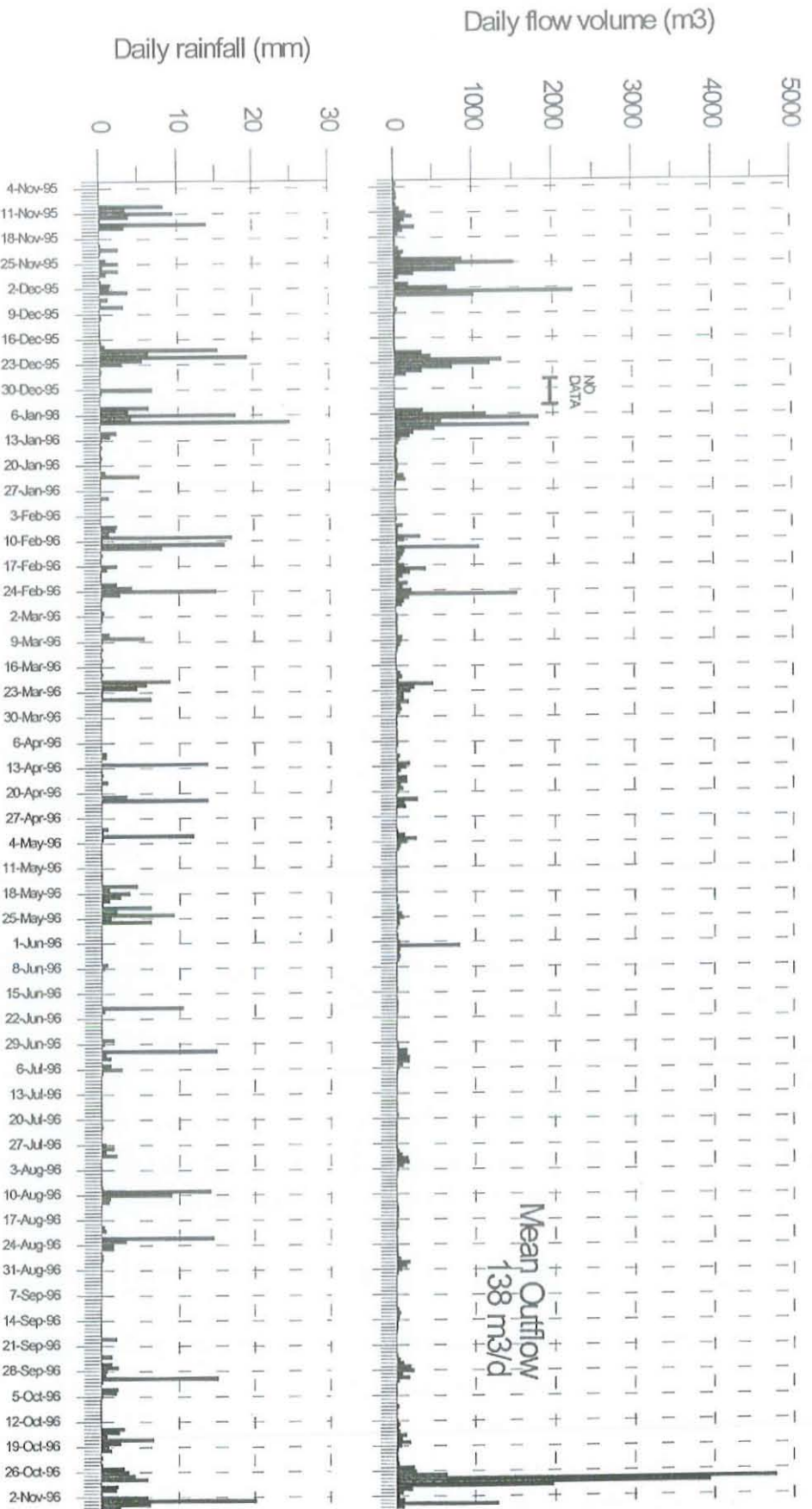
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IBM LAND AT SOUTH MOOR, HAVANT

Outlet valve water depth
and flow rates
January 1996

SYMONDS
TRAVERS MORGAN

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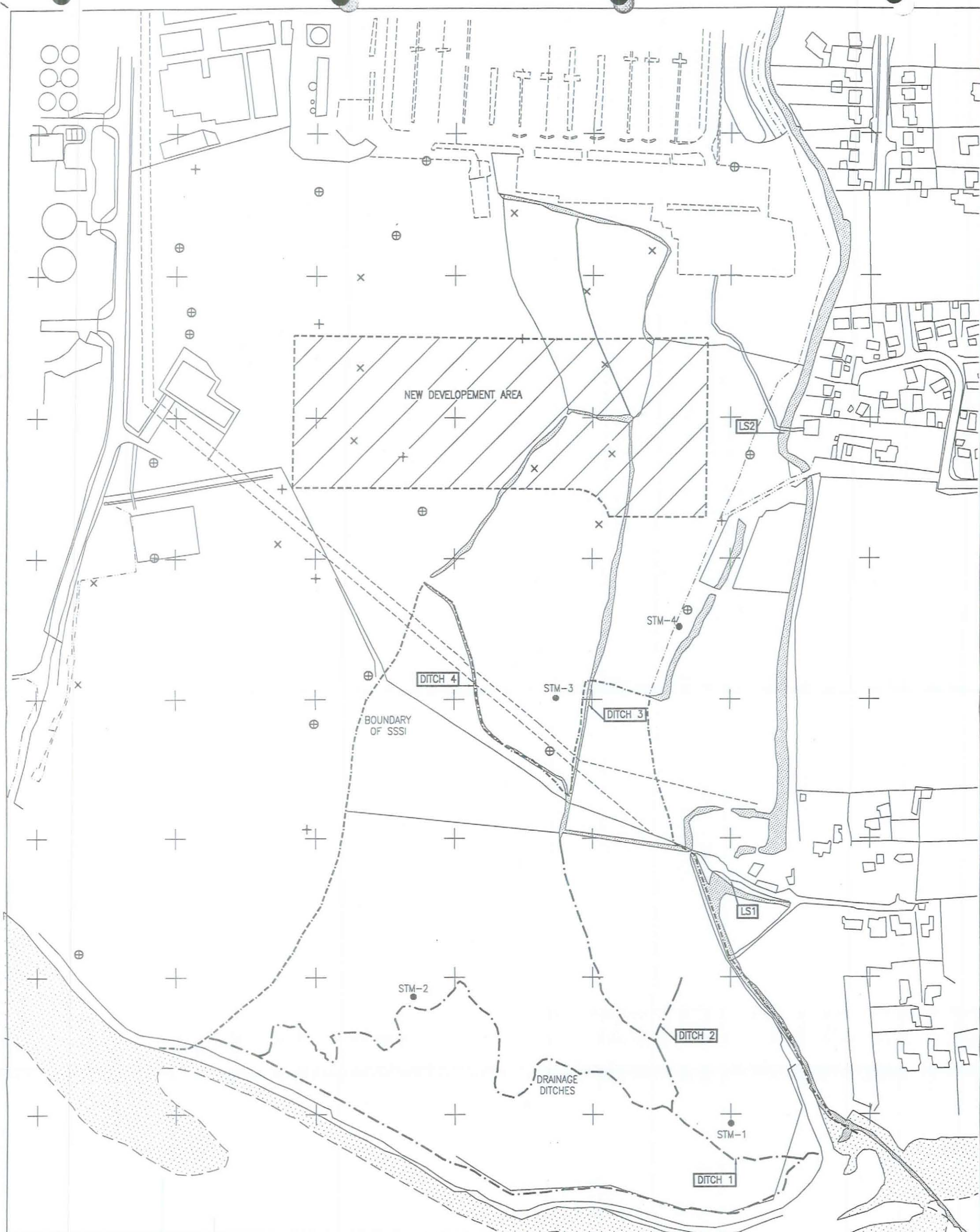
IBM LAND AT SOUTH MOOR, HAVANT

Outlet valve daily flow volumes
and rainfall

SYMONDS
TRAVERS MORGAN

file: FLOWVOL.GRF

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PHE			Nov 96		EG	Figure 8.7	



IBM LAND AT SOUTH MOOR, HAVANT

GROUNDWATER AND SURFACE WATER
SAMPLING LOCATIONS

SYMONDS
TRAVERS MORGAN

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TEJM	MR		JUN'96	1:2500	E.GRINSTEAD	Figure 9.1	

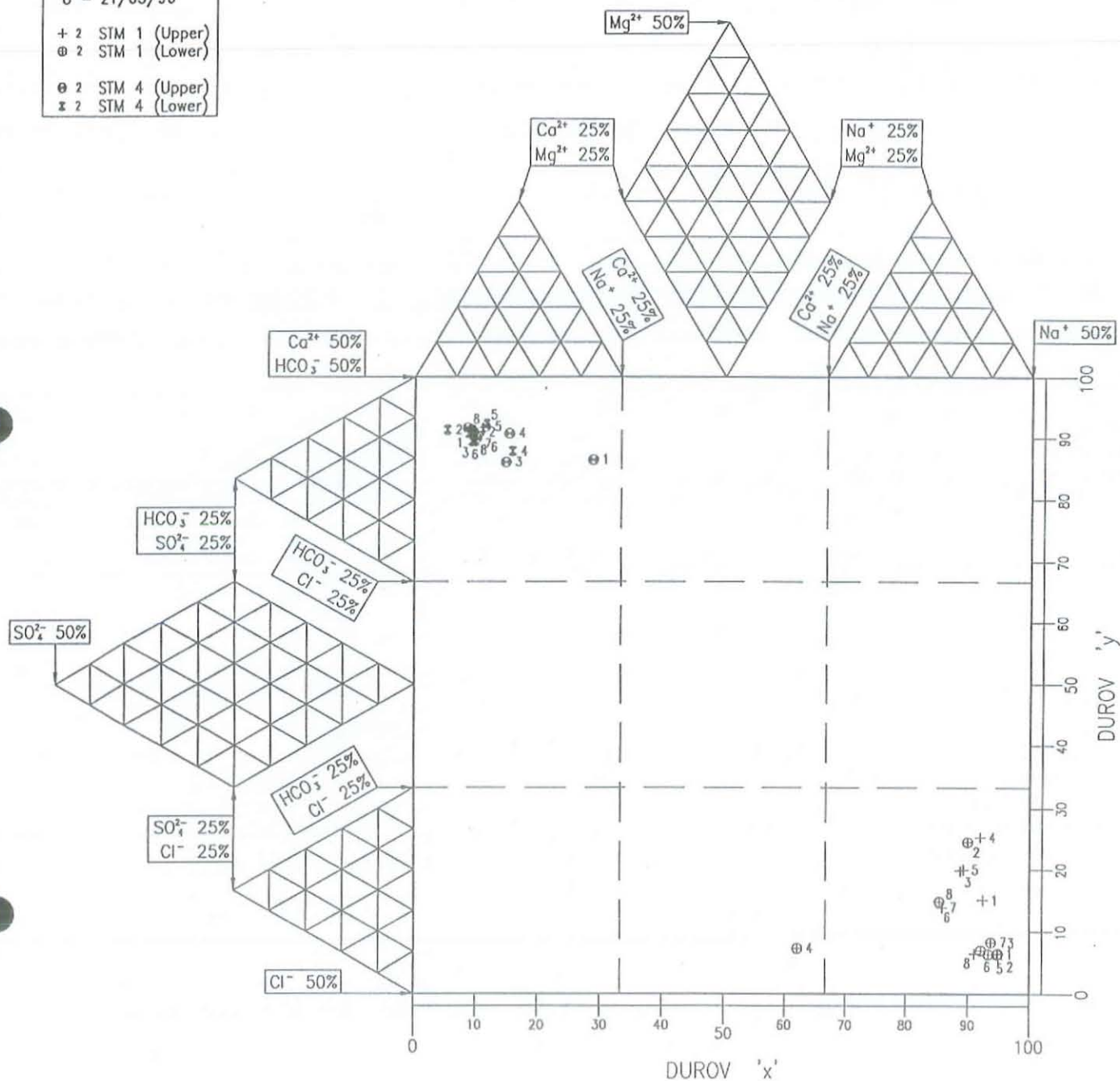
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KEY :

1 - 02/09/95
2 - 06/10/95
3 - 03/11/95
4 - 01/12/95
5 - 08/01/96
6 - 05/02/96
7 - 04/03/96
8 - 21/03/96

+ 2 STM 1 (Upper)
⊕ 2 STM 1 (Lower)

⊖ 2 STM 4 (Upper)
⊗ 2 STM 4 (Lower)



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HYDROCHEMISTRY
DUROV PLOT FOR BOREHOLES
STM 1 AND STM 4

SYMONDS
TRAVERS MORGAN

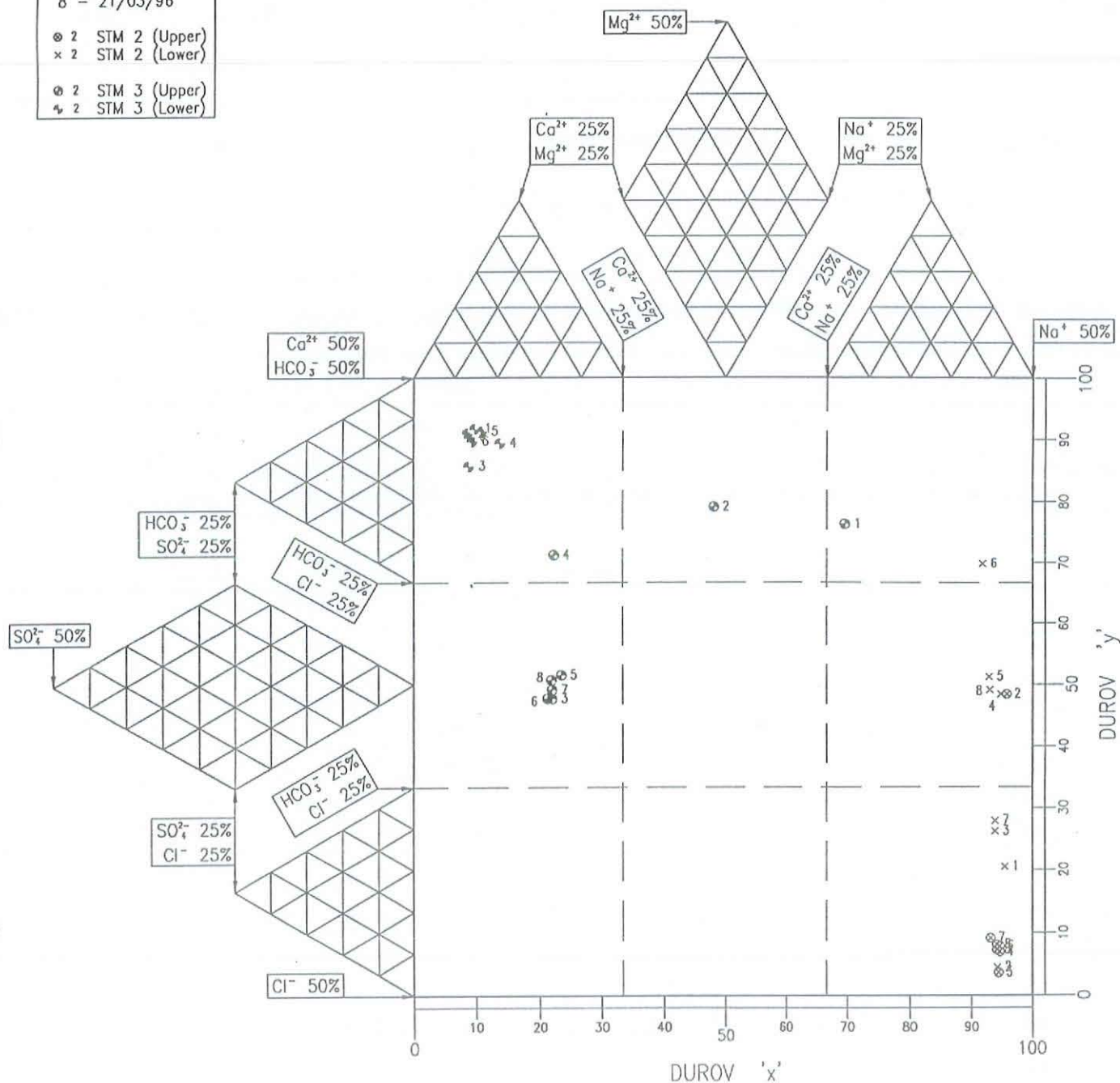
DRAWN BY	CHECKED BY	PASSED BY	DATE	SCALES	ISSUING OFFICE	DRAWING NUMBER	REV
TEJM	MR		JUN.'96	-	E.GRINSTEAD	Figure 9.2	

KEY :

1 - 02/09/95
2 - 06/10/95
3 - 03/11/95
4 - 01/12/95
5 - 08/01/96
6 - 05/02/96
7 - 04/03/96
8 - 21/03/96

⊙ 2 STM 2 (Upper)
× 2 STM 2 (Lower)

⊙ 2 STM 3 (Upper)
× 2 STM 3 (Lower)



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IBM LAND AT SOUTH MOOR, HAVANT

HYDROCHEMISTRY
DUROV PLOT FOR BOREHOLES
STM 2 AND STM 3

SYMONDS
TRAVERS MORGAN

DRAWN BY TEJM	CHECKED BY MR	PASSED BY	DATE JUN.'96	SCALES ⊙ A4 —	ISSUING OFFICE E.GRINSTEAD
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DRAWING NUMBER

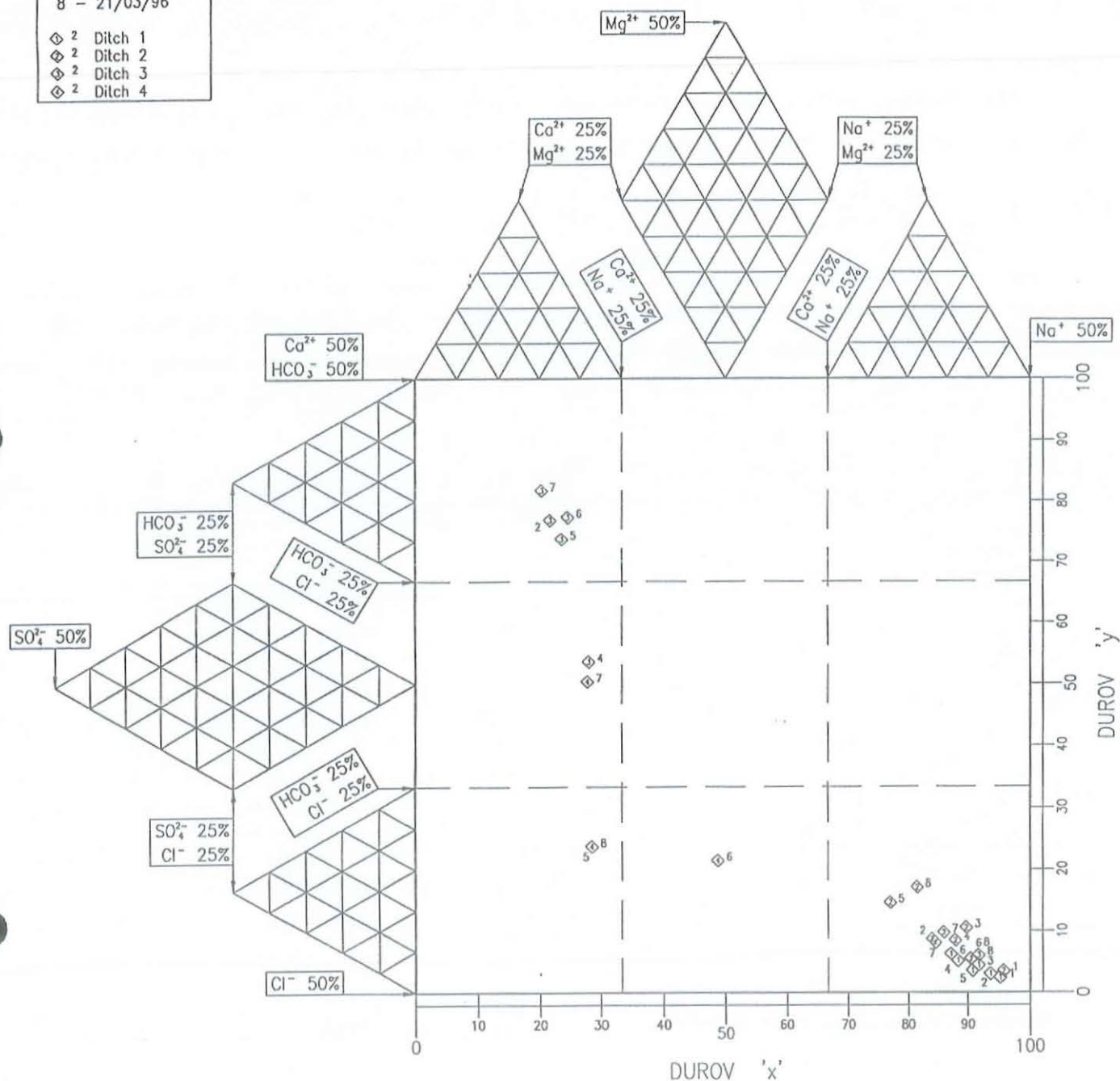
Figure 9.3

REV

KEY :

- 1 - 02/09/95
- 2 - 06/10/95
- 3 - 03/11/95
- 4 - 01/12/95
- 5 - 08/01/96
- 6 - 05/02/96
- 7 - 04/03/96
- 8 - 21/03/96

- ◇ 2 Ditch 1
- ◇ 2 Ditch 2
- ◇ 2 Ditch 3
- ◇ 2 Ditch 4



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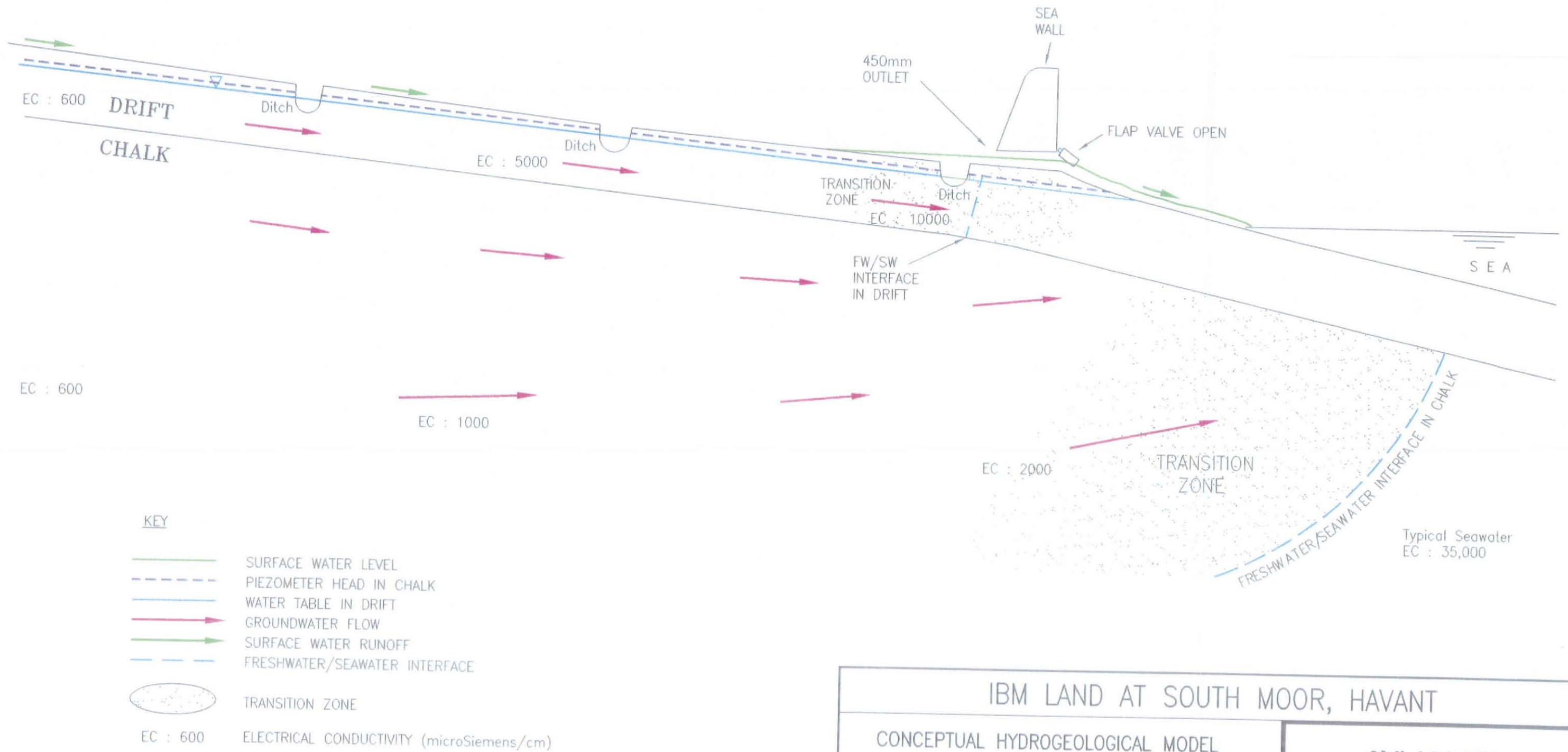
HYDROCHEMISTRY
DUROV PLOT FOR DITCH STATIONS
D1, D2, D3 AND D4

SYMONDS
TRAVERS MORGAN

DRAWN BY	CHECKED BY	PASSED BY	DATE	SCALES	ISSUING OFFICE	DRAWING NUMBER	REV
TEJM	MR		JUN.'96	—	E.GRINSTEAD	Figure 9.4	

N

S



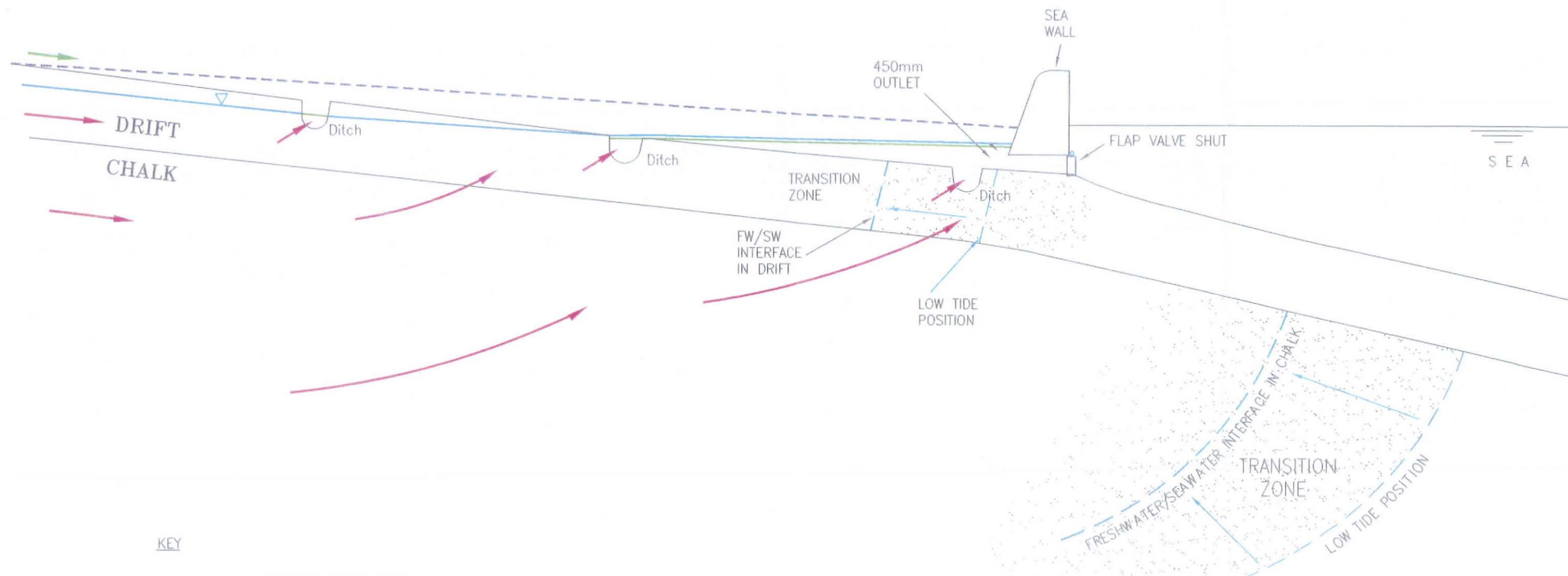
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CONCEPTUAL HYDROGEOLOGICAL MODEL
LOW TIDE CONDITIONSYMONDS
TRAVERS MORGAN

DRAWN BY KRD	CHECKED BY	PASSED BY	DATE AUG'96	SCALES A3 N.T.S.	ISSUING OFFICE E.Grinstead	DRAWING NUMBER Figure 10.1	REV
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N

S



KEY

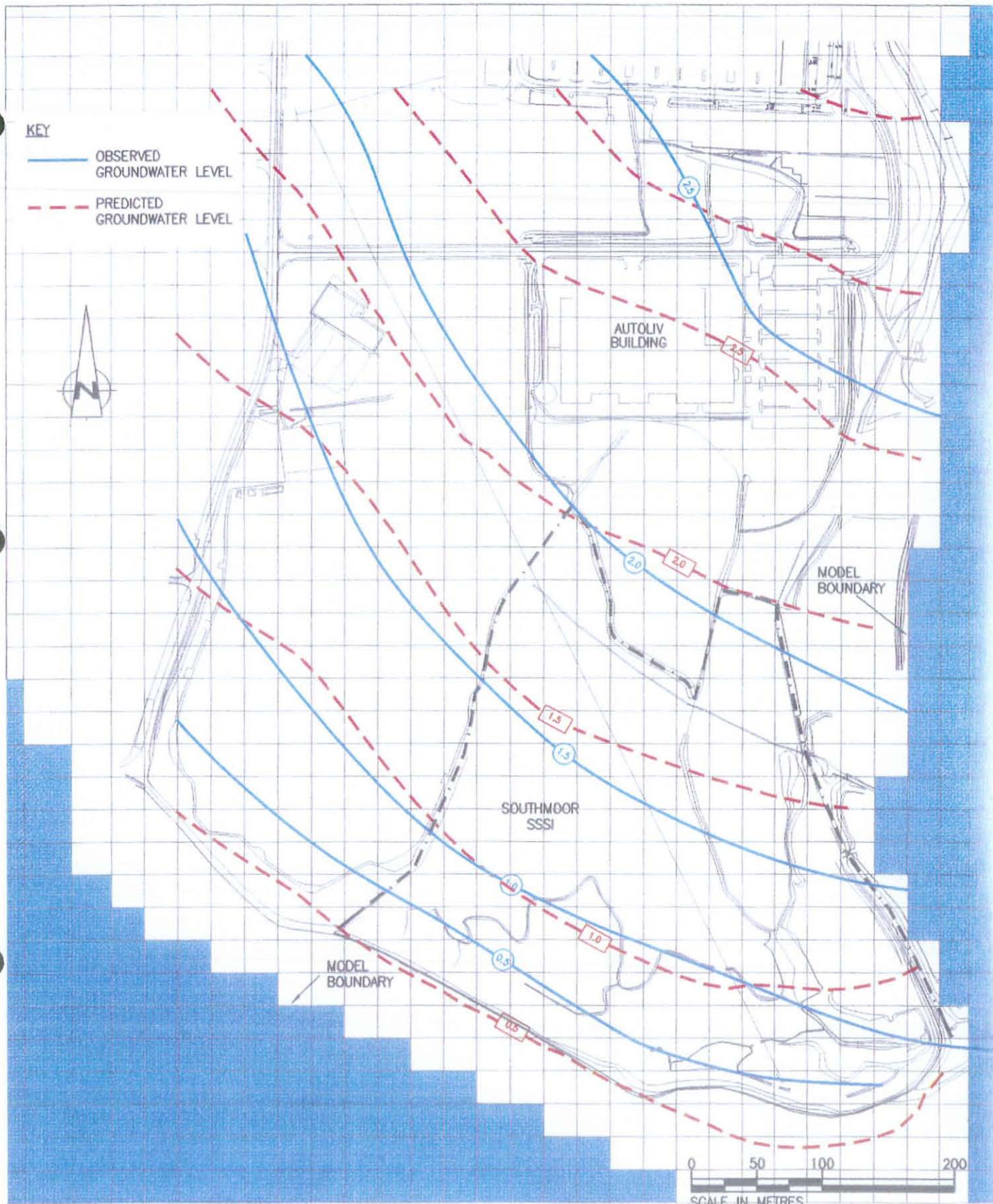
- SURFACE WATER LEVEL
- - - PIEZOMETER HEAD IN CHALK
- WATER TABLE IN DRIFT
- GROUNDWATER FLOW
- SURFACE WATER RUNOFF
- - - FRESHWATER/SEAWATER INTERFACE
- TRANSITION ZONE

IBM LAND AT SOUTH MOOR, HAVANT

CONCEPTUAL HYDROGEOLOGICAL MODEL
HIGH TIDE CONDITION

SYMONDS
TRAVERS MORGAN

DRAWN BY KRD	CHECKED BY	PASSED BY	DATE AUG'96	SCALE 1/3 N.T.S.	ISSUING OFFICE E.Grinstead	DRAWING NUMBER Figure 10.2	REV
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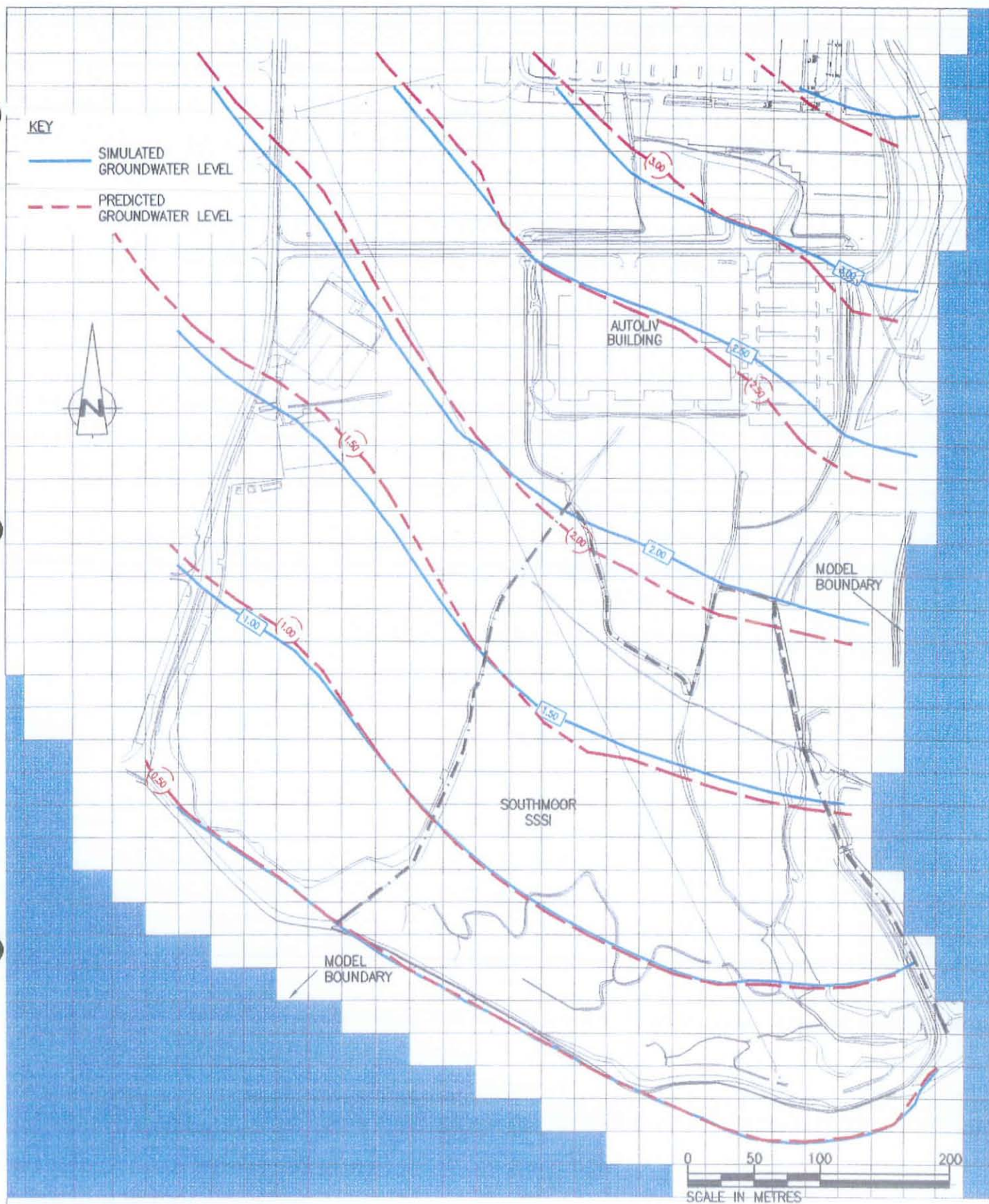
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SIMULATED AND OBSERVED
GROUNDWATER CONTOURS

**SYMONDS
TRAVERS MORGAN**

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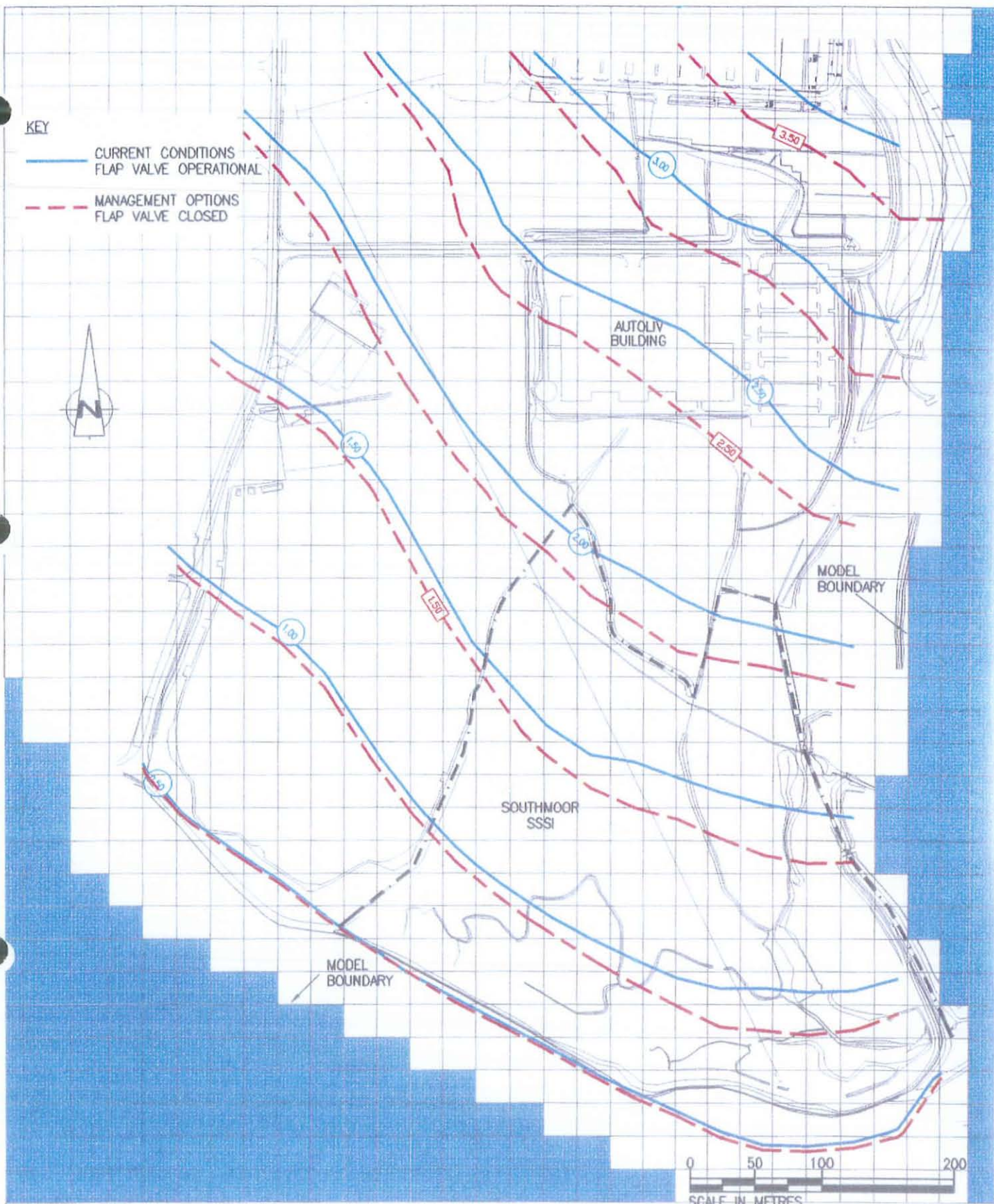


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SIMULATED GROUNDWATER LEVELS AND
PREDICTED POST DEVELOPMENT WATER LEVELS

SYMONDS
TRAVERS MORGAN

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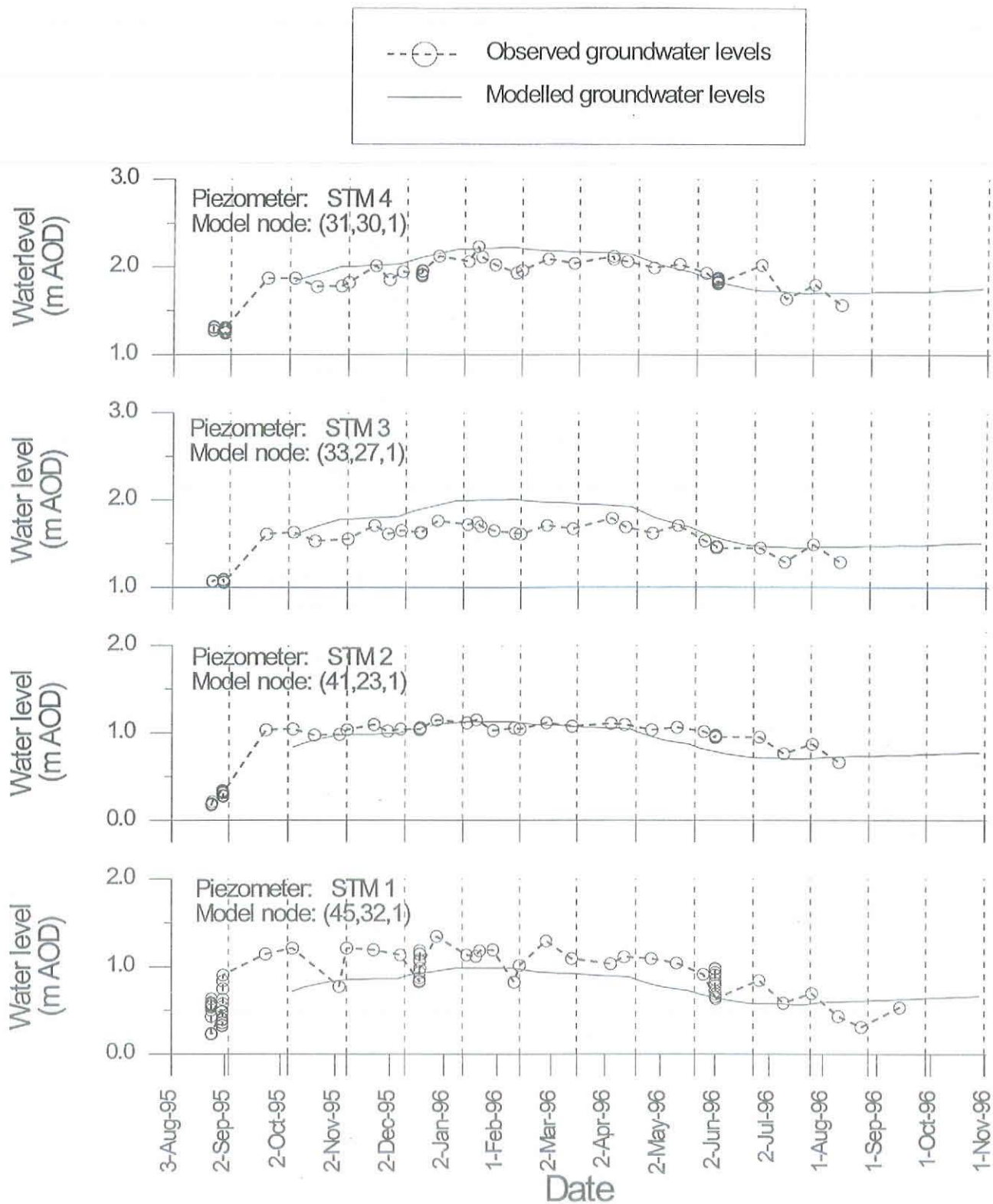
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PREDICTED POST DEVELOPMENT GROUNDWATER
LEVELS WITH CLOSED VALVE OPTION

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TRAVERS MORGAN**

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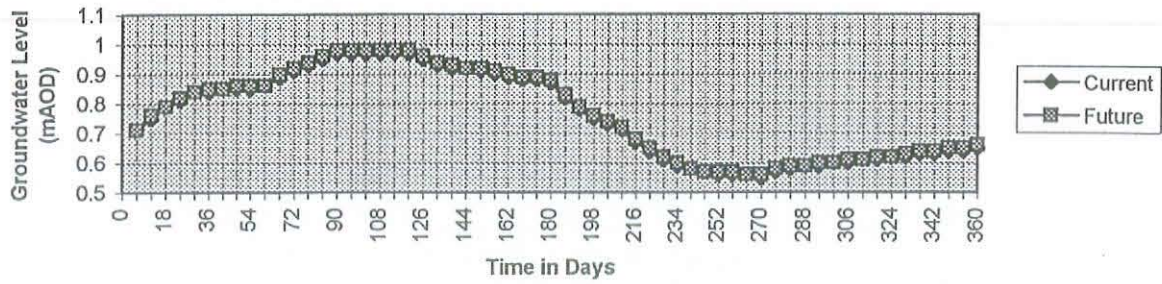
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Observed and modelled groundwater levels in the Drift (Layer 1)

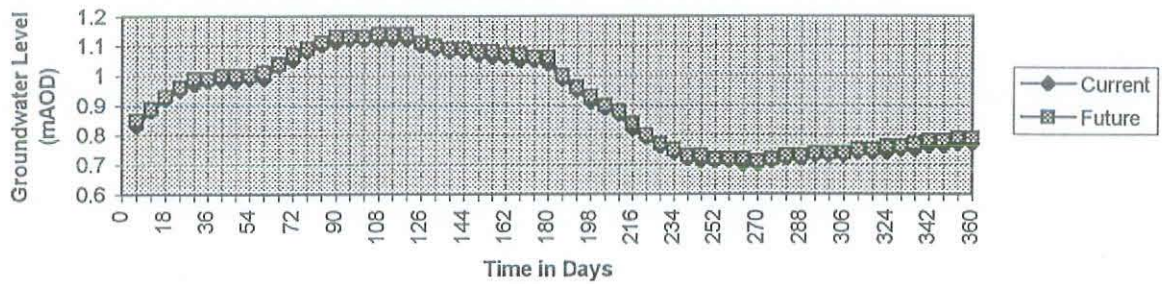
SYMONDS
TRAVERS MORGAN

DRAWN BY PHE	CHECKED BY	PASSED BY	DATE Dec 96	SCALES @ A4	ISSUING OFFICE EG	DRAWING NUMBER Figure 11.3	REV
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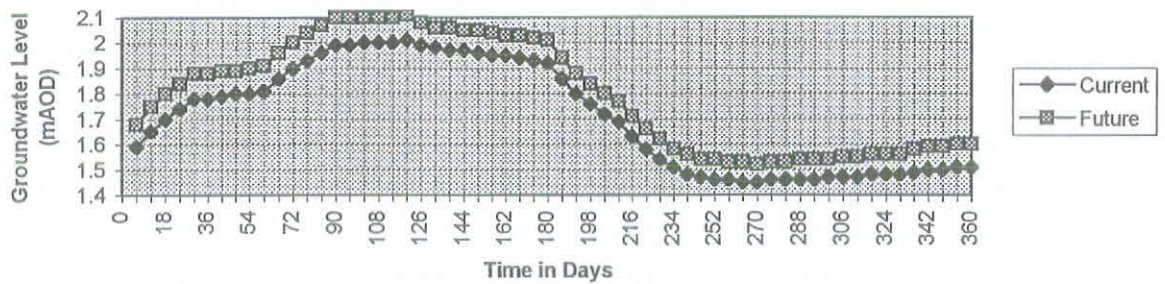
STM 1: Simulated Groundwater Levels



STM 2: Simulated Groundwater Levels



STM 3: Simulated Groundwater Levels



STM 4: Simulated Water Levels

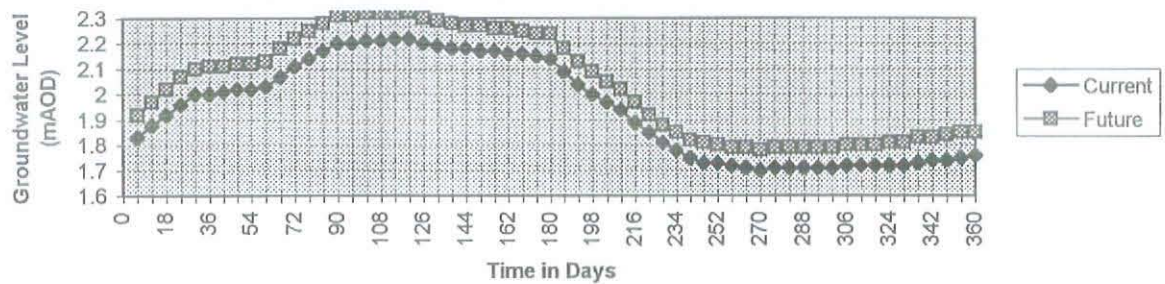
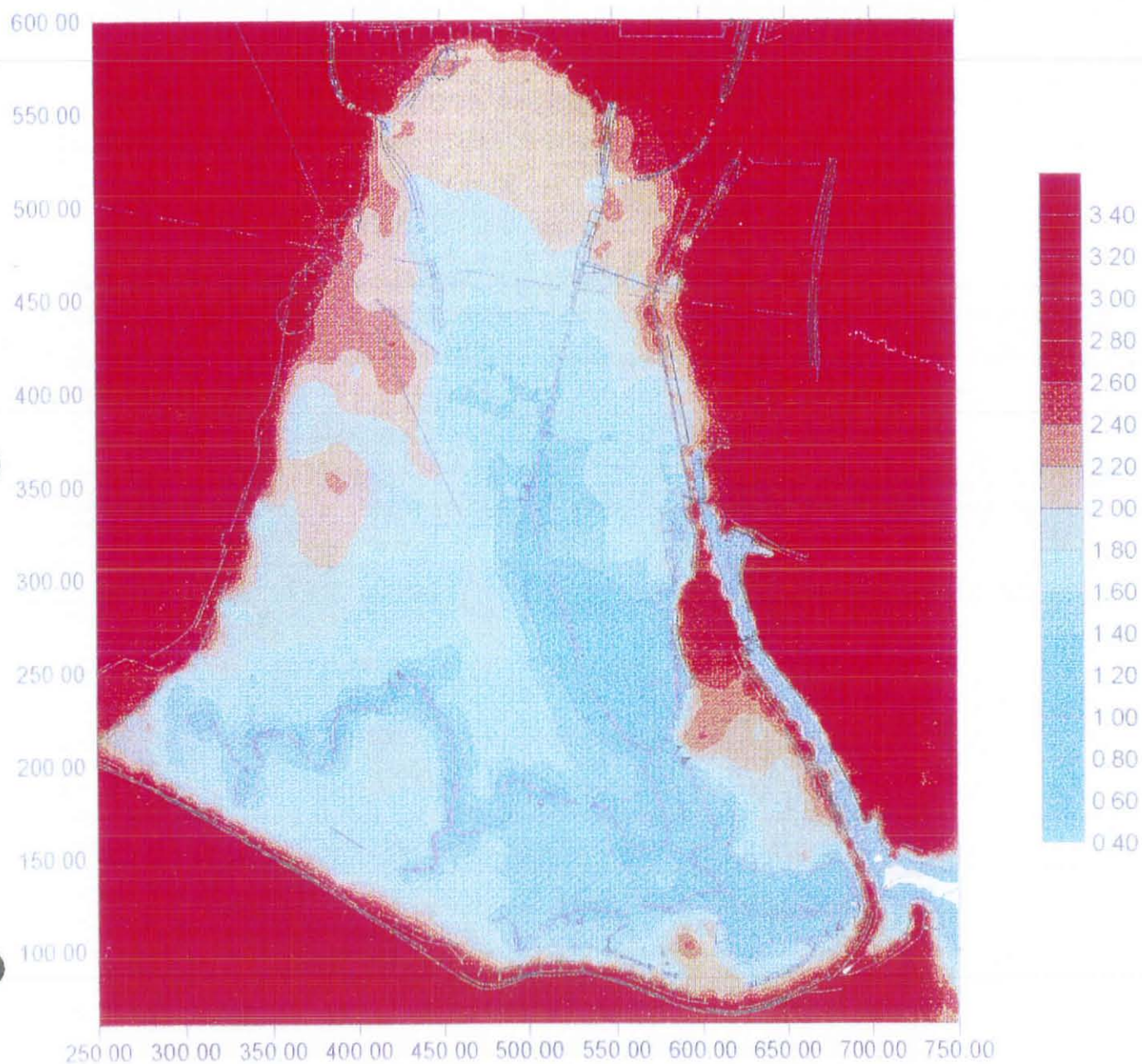


Figure 11.4: Simulated Current and Future Groundwater Levels



LAND AT SOUTH MOOR - WETLAND STUDY

Management Options - Peak water level at spring tide (1.4m) with existing 450mm outlet pipe and no flap valve. Extent of ponding shown in pale blue and contoured.

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TRAVERS MORGAN

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DESIGNED BY

DATE
03/97

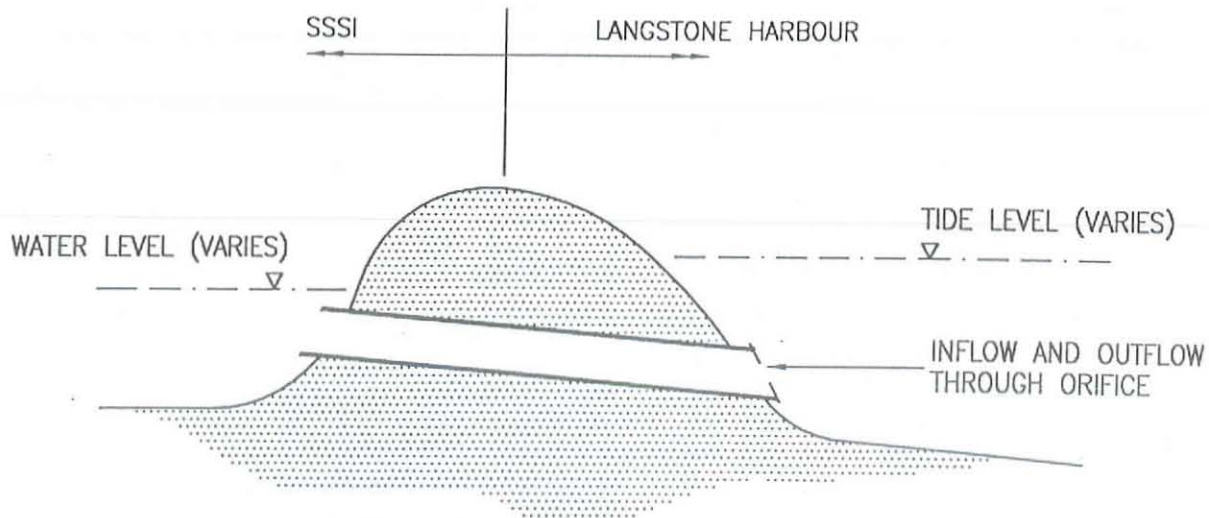
SCALE 1:500

ISSUED OFFICE
EG

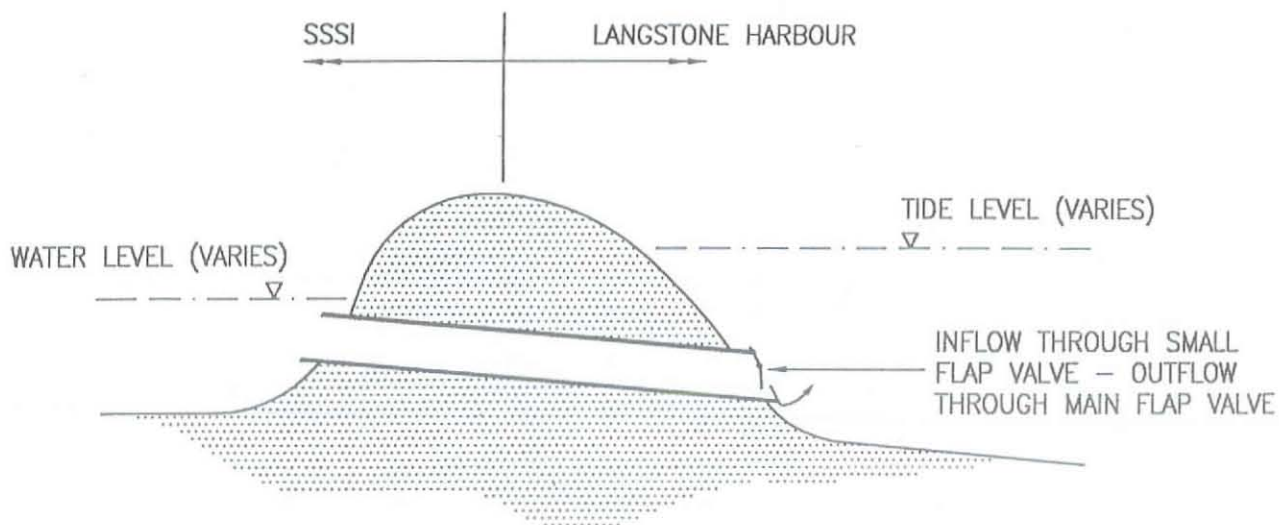
DRAWING NUMBER

FIGURE 12.1

REV



OPTION 1 – MAIN FLAP VALVE MODIFIED TO
INCLUDE A SIMPLE ORIFICE



OPTION 1 – MAIN FLAP VALVE MODIFIED TO
PERMIT INFLOW ONLY THROUGH ORIFICE

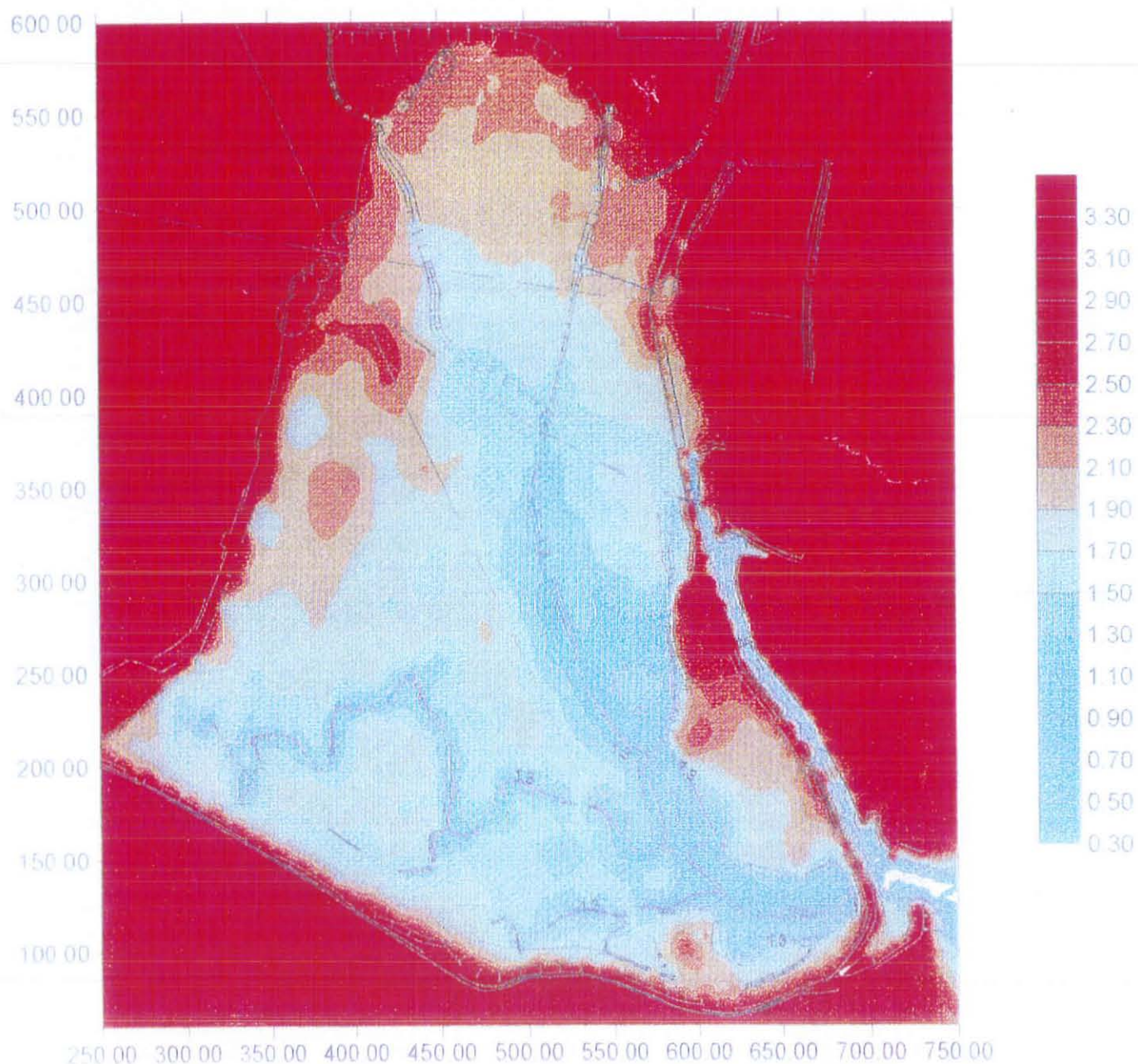
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LAND AT SOUTHMOOR, HAVANT

SCHEMATIC PROPOSALS FOR MODIFICATION
OF FLAP VALVE

SYMONDS
TRAVERS MORGAN

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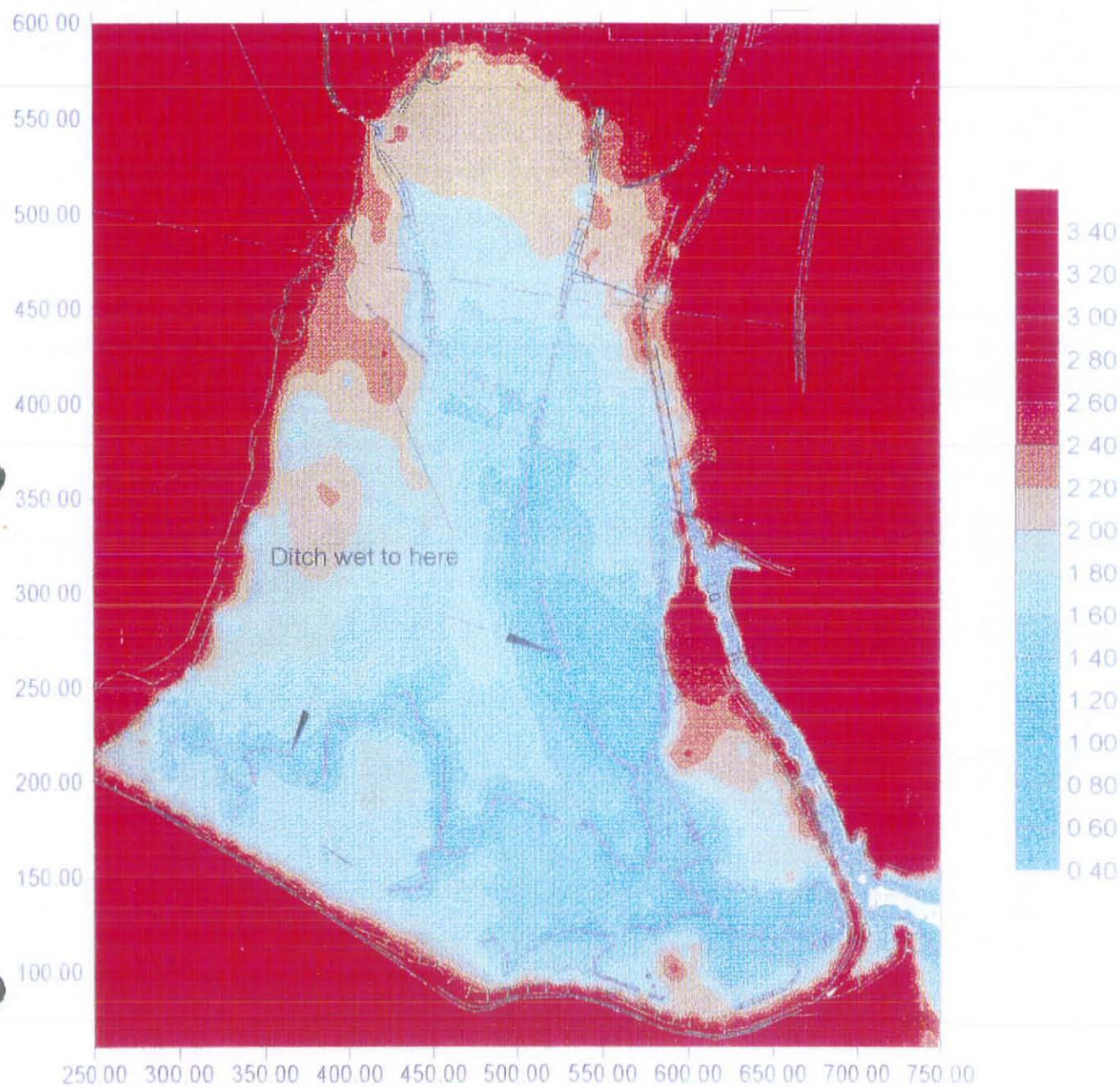


LAND AT SOUTH MOOR - WETLAND STUDY

Management Options - Peak water level at spring tide (1-30m) with 320mm inlet flap within larger diameter reverse flap. Extent of ponding shown in pale blue and contoured.

SYMONDS
TRAVERS MORGAN

FIGURE 12.3



LAND AT SOUTH MOOR - WETLAND STUDY

Management Options - Peak water level at spring tide (0.99m) with 150mm inlet flap and larger reverse flap
Extent of ponding shown in pale blue and contoured

SYMONDS
TRAVERS MORGAN

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DATE

03/97

SCALE: 1:500

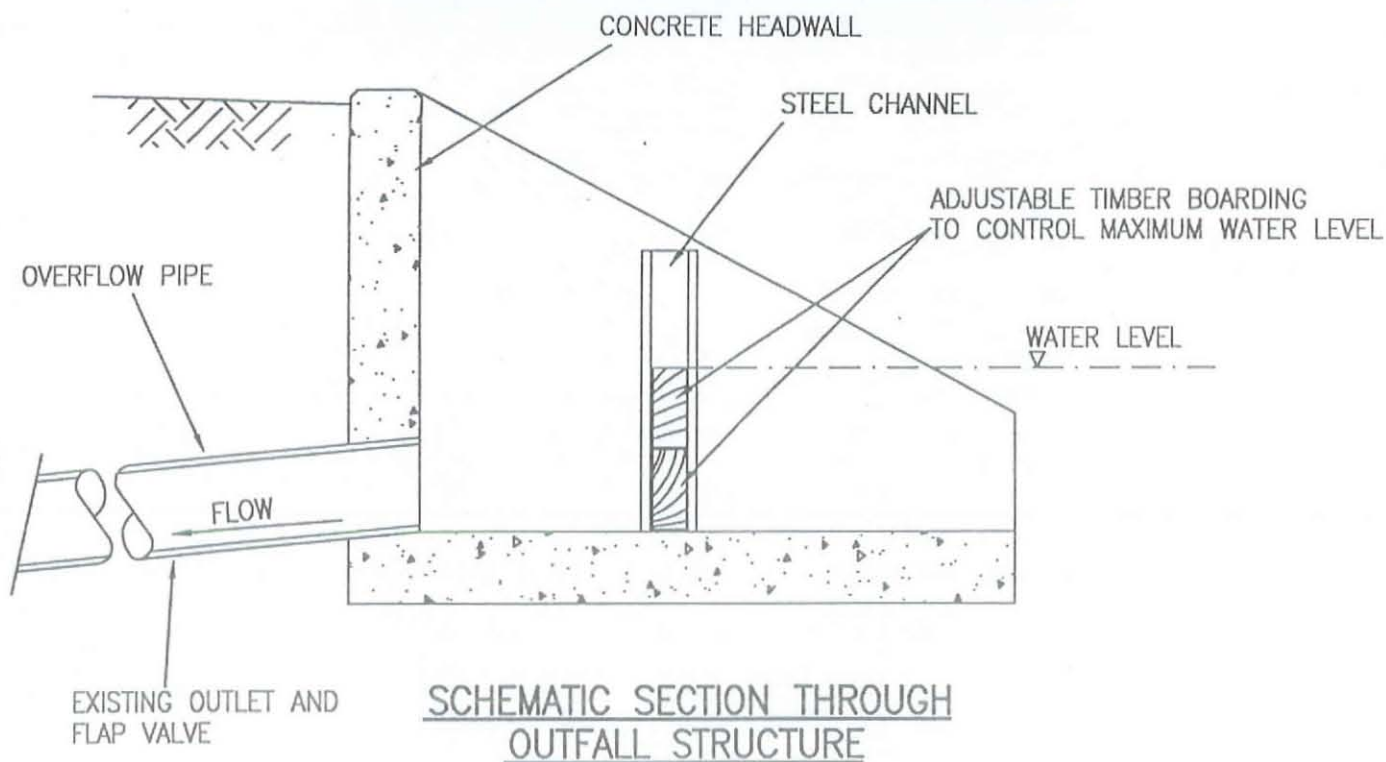
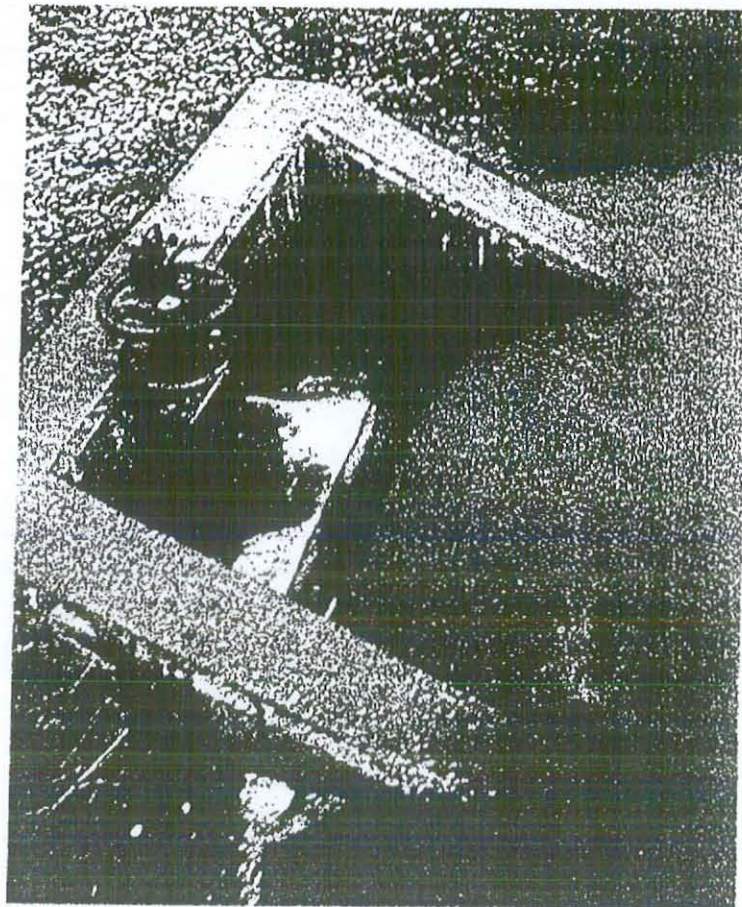
DESIGNED BY

EG

THEORY: 10/0000

FIGURE 12.4

REV



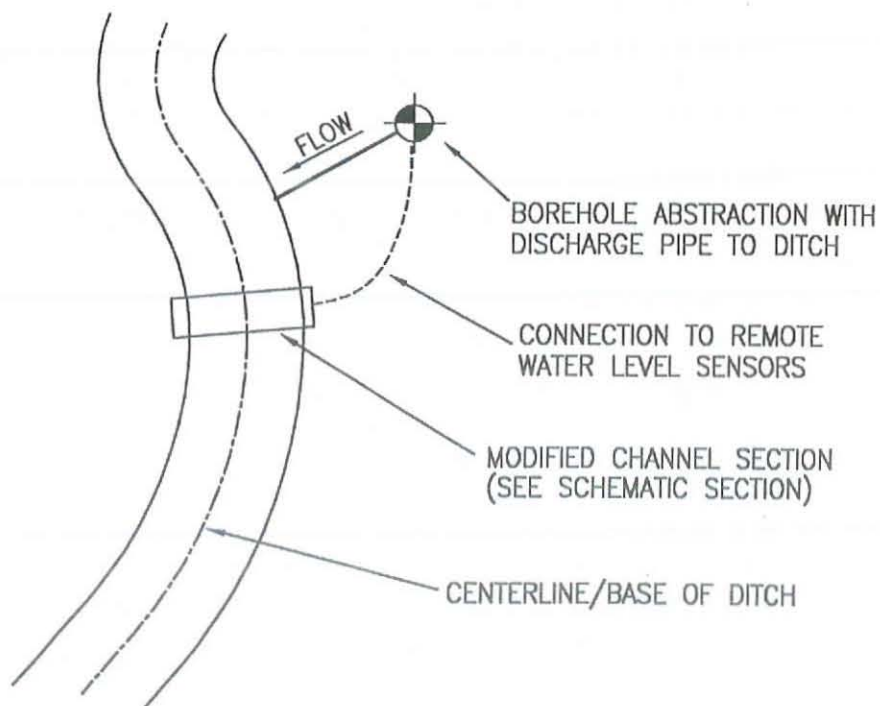
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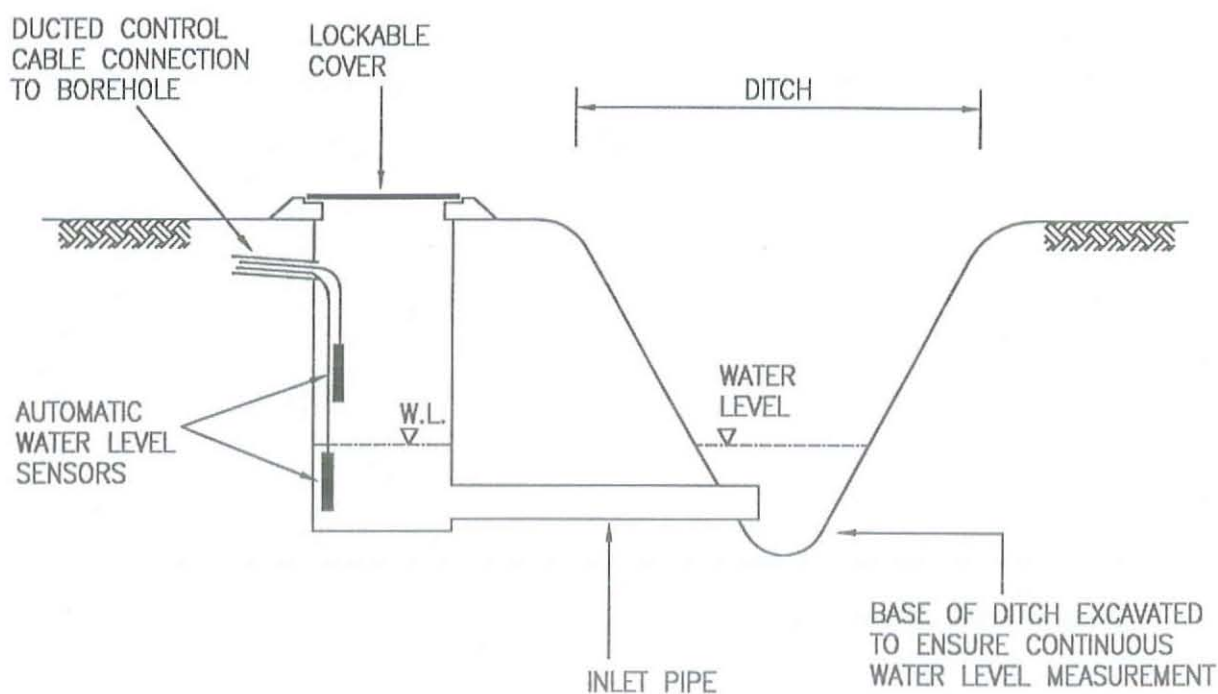
PROPOSED STRUCTURE TO
MAINTAIN WATER LEVELS

SYMONDS
TRAVERS MORGAN

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SCHEMATIC PLAN ON DITCH



SCHEMATIC SECTION THROUGH
DITCH AND LEVEL SENSOR CHAMBER

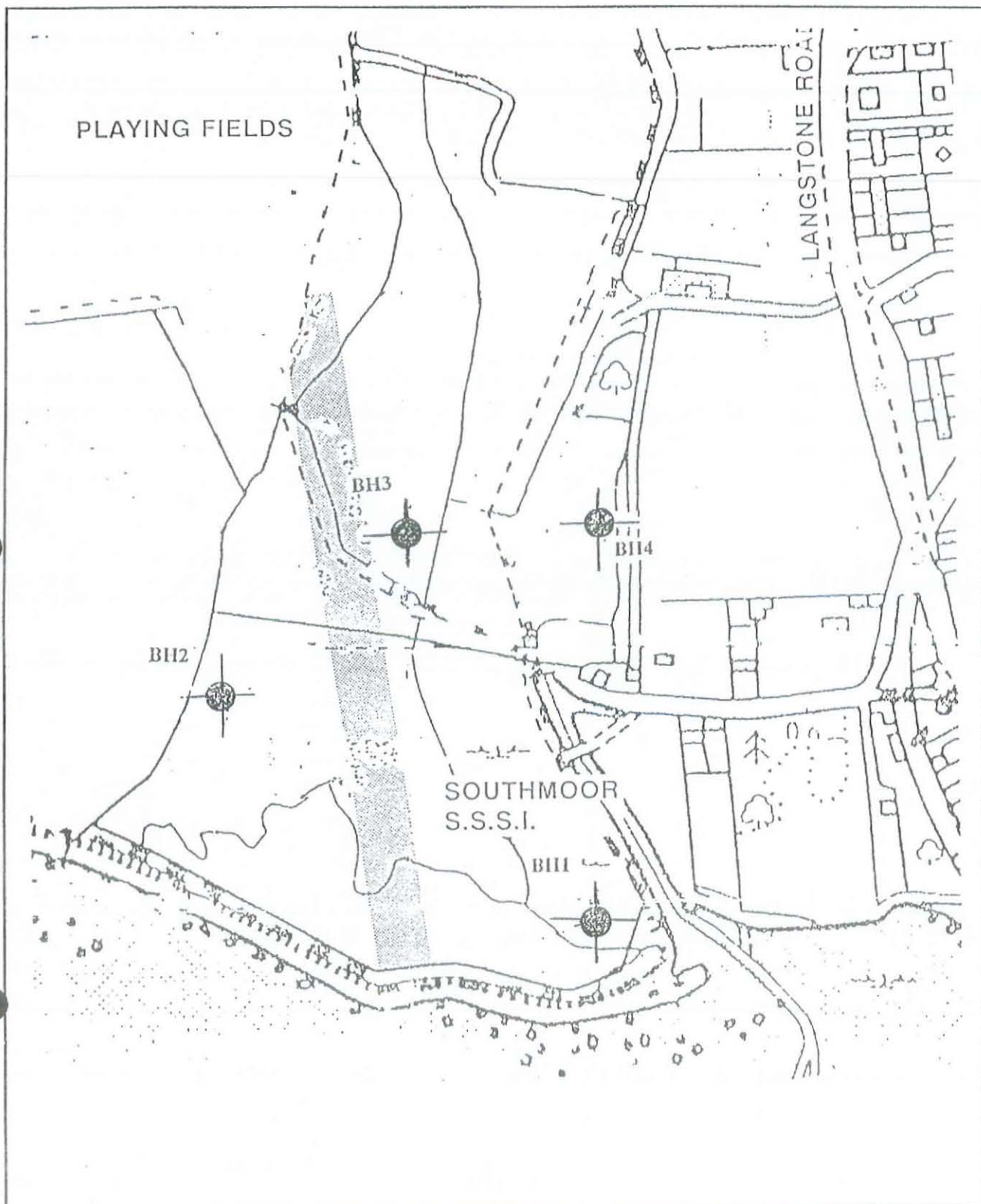
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LAND AT SOUTHMOOR, HAVANT

SCHEMATIC BOREHOLE PLAN WITH
DITCH AMENDED FOR LEVEL MONITORING

SYMONDS
TRAVERS MORGAN

DRAWN BY GC	CHECKED BY	PASSED BY	DATE MAR'97	SCALES • A4 N.T.S	ISSUING OFFICE E.Grinstead	DRAWING NUMBER FIGURE 12.6	REV
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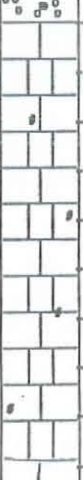
PROJECT	South Moor SSSI, Havant	DATE	September 1995	PLANT	SHIELD & AUGER BOREHOLE
CLIENT	Symonds Travers Morgan				
Borehole Location		REF:	J4014	Fig. No. 1	

SAMPLING/IN-SITU TESTING					DESCRIPTION OF STRATA	STRATA			
Depth (m)	Type	Penetration Blows		N		Legend	Reduced Level	Depth m	Thick- ness m
.2	B				Grass over clayey topsoil		1.292	.2	.2
					Brown clayey GRAVEL		1.092	.2	.55
					Soft brown gray mottled silty CLAY with some fine to medium gravel.		0.542	.75	1.05
1.8	B				Light gray chalky clayey sandy well-graded GRAVEL		-0.508	1.8	1.2
					Gray remoulded CHALK with fragments of intact chalk and occasional flints		-1.708	3	1.5
3.5	B				Off-white CHALK with occasional flints		-3.208	4.5	5.5
					Borehole terminated at 10m.bgl		-8.708	10	

Notes: Double standpipe installed to 9.9m & 4.3m Rising head test undertaken to Engineers Instruction

Ground Water Record							Chiselling Record			Casing	
Date	Time	B-Hole (m)	Casing (m)	Strike (m)	Stand (m)	Time	T (hrs)	From (m)	To (m)	Diam.	Depth (m)
07-08-95	am	5.9	5.0	5.9	3.34	30min				150mm	8.0
07-08-95	pm	10.0	8.00	-	8.8	sob					

PROJECT South Moor SSSI, Havant	DATE August 1995	DIAM 150mm	
CLIENT Symonds Travers Morgan	REF J4014	BH 1 (STM1)	
Cable Percussion BH Log		SHEET 1 OF 1	
	QZ 3B: 00100: 05PT	Engineer	Checked

SAMPLING/IN-SITU TESTING					DESCRIPTION OF STRATA	STRATA			
Depth (m)	Type	Penetration Blows N				Legend	Reduced Level	Depth m	Thickness m
1.5	B				Grass over clayey topsoil		1.753		.6
2	B				Firm brown grey mottled silty CLAY		1.153	.6	.8
3	B				Grey brown silty CLAY with some flint gravel		0.353 0.253	1.4	.1
					Light grey chalky sandy very silty medium to coarse flint GRAVEL with medium to coarse fragments of intact chalk				3.5
					Off-white CHALK with occasional flints		3.247	5	5
					Borehole terminated at 10m.bgl		3.247	10	

Notes: Twin standpipes installed at 8.5m & 4.7m.bgl Rising and falling head tests undertaken to engineers instruction

Ground Water Record							Chiselling Record			Casing	
Date	Time	B-Hole (m)	Casing (m)	Strike (m)	Stand (m)	Time	T (hrs)	From (m)	To (m)	Diam.	Depth (m)
08-08-95	am	2.0	none	2.0	1.75	30min				150mm	8.5
08-08-95	pm	8.8	7.0	8.8	8.8	30min					
08-08-95	sob	10.0	8.50	-	9.1						

PROJECT South Moor SSSI, Havant	DATE August 1995	DIAH 150mm	
CLIENT Symonds Travers Morgan	REF J4014	BH 2 (STM2)	
Cable Percussion BH Log		SHEET 1 OF 1	
	OBJ: 3B: 00100: 05PT	Engineer	Checked

SAMPLING/IN-SITU TESTING					DESCRIPTION OF STRATA	STRATA			
Depth (m)	Type	Penetration Blows				Legend	Reduced Level	Depth m	Thick- ness m
1.4	B				Grass over clayey gravel		2.561	.5	.5
					Brown grey mottled clayey GRAVEL		2.061		
					Light brown sandy very silty clayey GRAVEL		1.161	1.4	.9
					Brown grey mottled silty CLAY with fine flint gravel and fragments of chalk		0.661	1.9	.5
	B				Grey chalky silty CLAY with occasional flint gravel and fragments of intact chalk		-0.639	3.2	1.3
4.1					Pale grey chalky sandy very silty clayey well-graded flint GRAVEL		-1.539	4.1	.9
					Off-white CHALK with occasional flints		-2.839	5.4	1.3
									4.6
					Borehole terminated at 10m.bgl		-7.439	10	

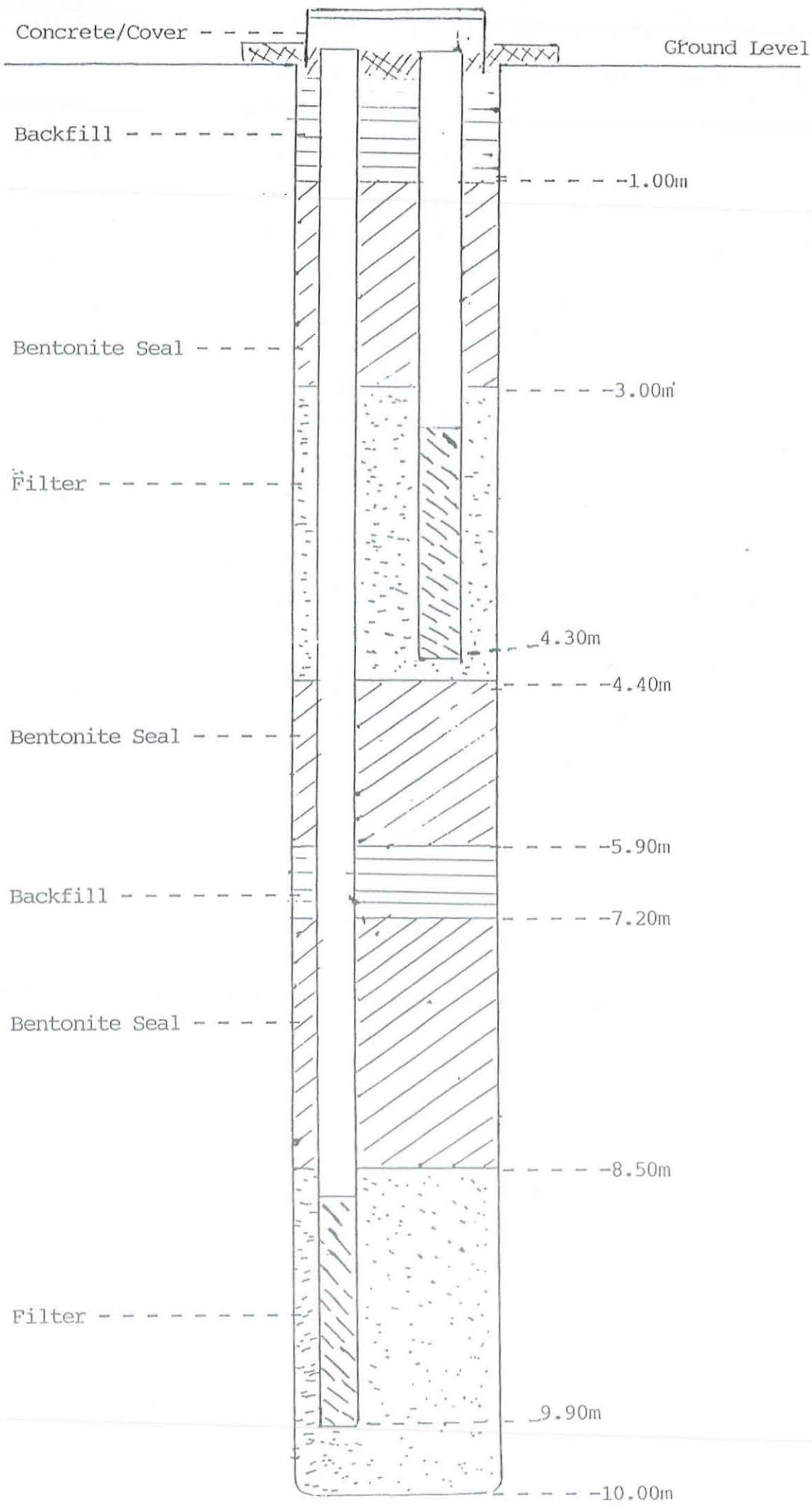
Notes: Twin standpipes installed at 5.0m & 9.5m.bgl Falling & rising head tests made at 1.65m & 4.2m to Engineers instruction

Ground Water Record						
Date	Time	B-Hole(m)	Casing(m)	Strike(m)	Stand(m)	Time
10-08-95	am	4.2	4.0	4.2	3.35	30min
10-08-95	pm	8.8	7.0	8.8	6.8	30min
10-08-95	soh	10.0	9.0	-	8.3	soh

Chiselling Record		
T(hrs)	From(m)	To(m)
1	0	1

Casing	
Diam.	Depth(m)
150mm	9.0

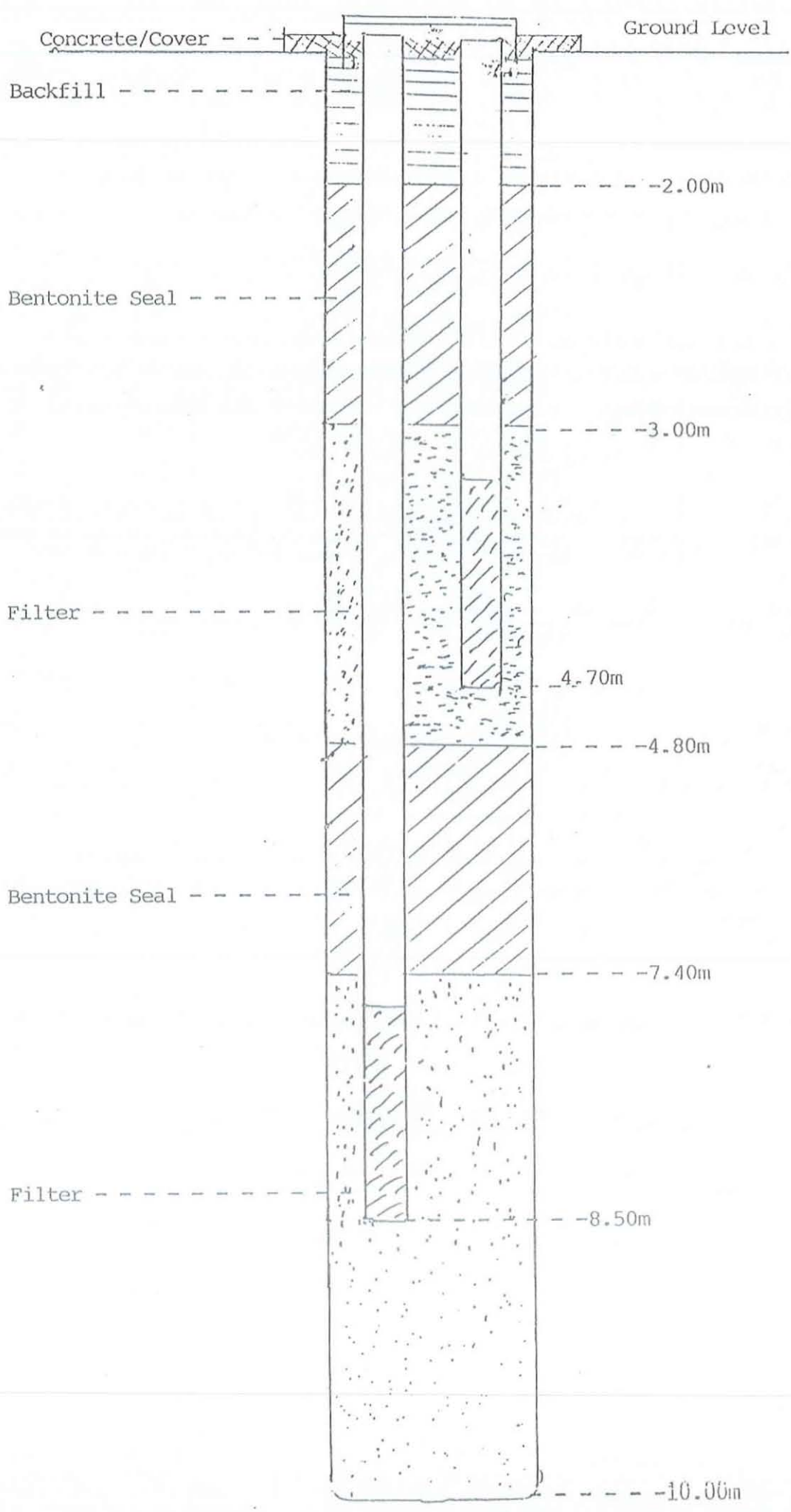
PROJECT South Moor SSSI, Havant	DATE August 1995	DIAM 150mm
CLIENT Symonds Travers Morgan	REF J4014	BH 4 (STM 4) SHEET 1 OF 1
Cable Percussion BH Log		0.1 28: 00100: 06PT Engineer Checked



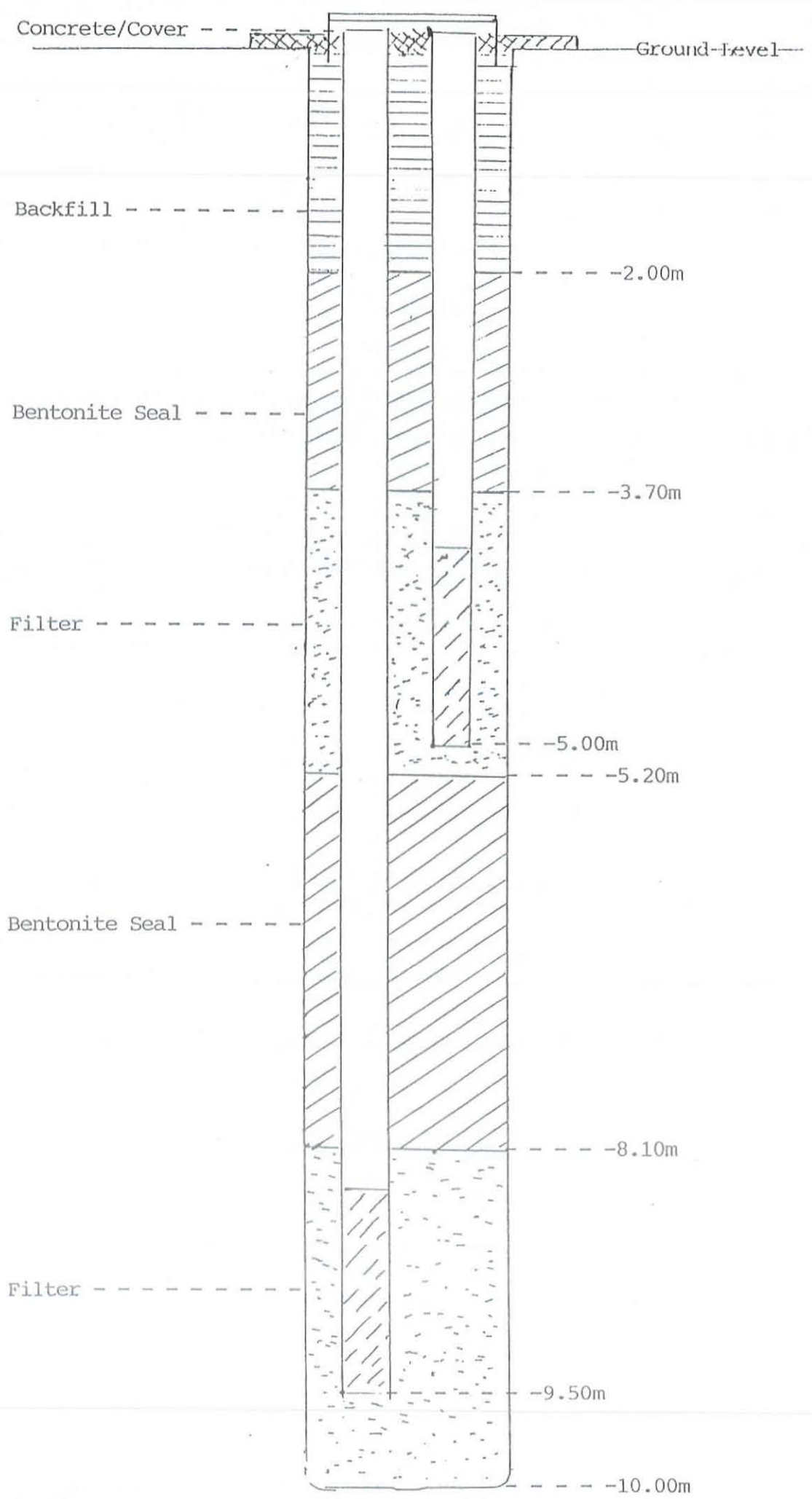
m
1
w
th
f
s
su

SITE NAME, ADDRESS, JOB NUMBER
HAYANT

SHEET
BOREHOLE NO.
2







APPENDIX II

**Geophysical Surveys Carried Out At South Moor S.S.S.I.
to Investigate Saline Intrusions and Geology**

Havant, Hampshire

Carried out for: Symonds Travers Morgan Ltd.

August / September 1995

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