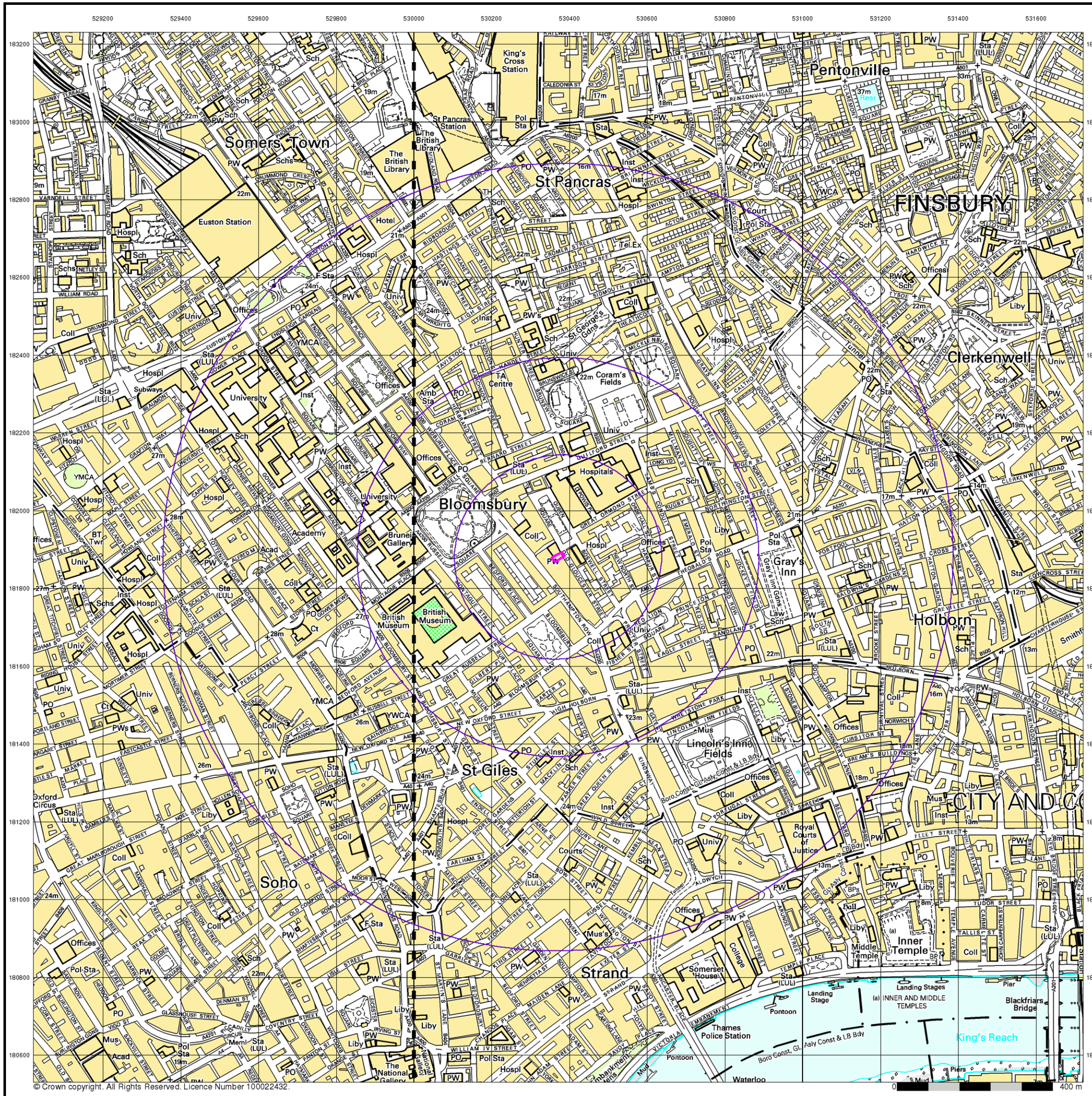


Geotechnical & Environmental Associates

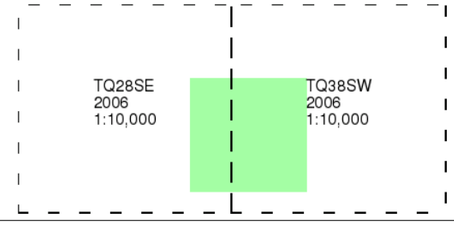
10k Raster Mapping

Published 2006

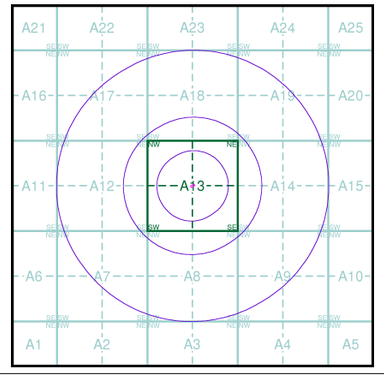
Source map scale - 1:10,000

The historical maps shown were produced from the Ordnance Survey`s 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

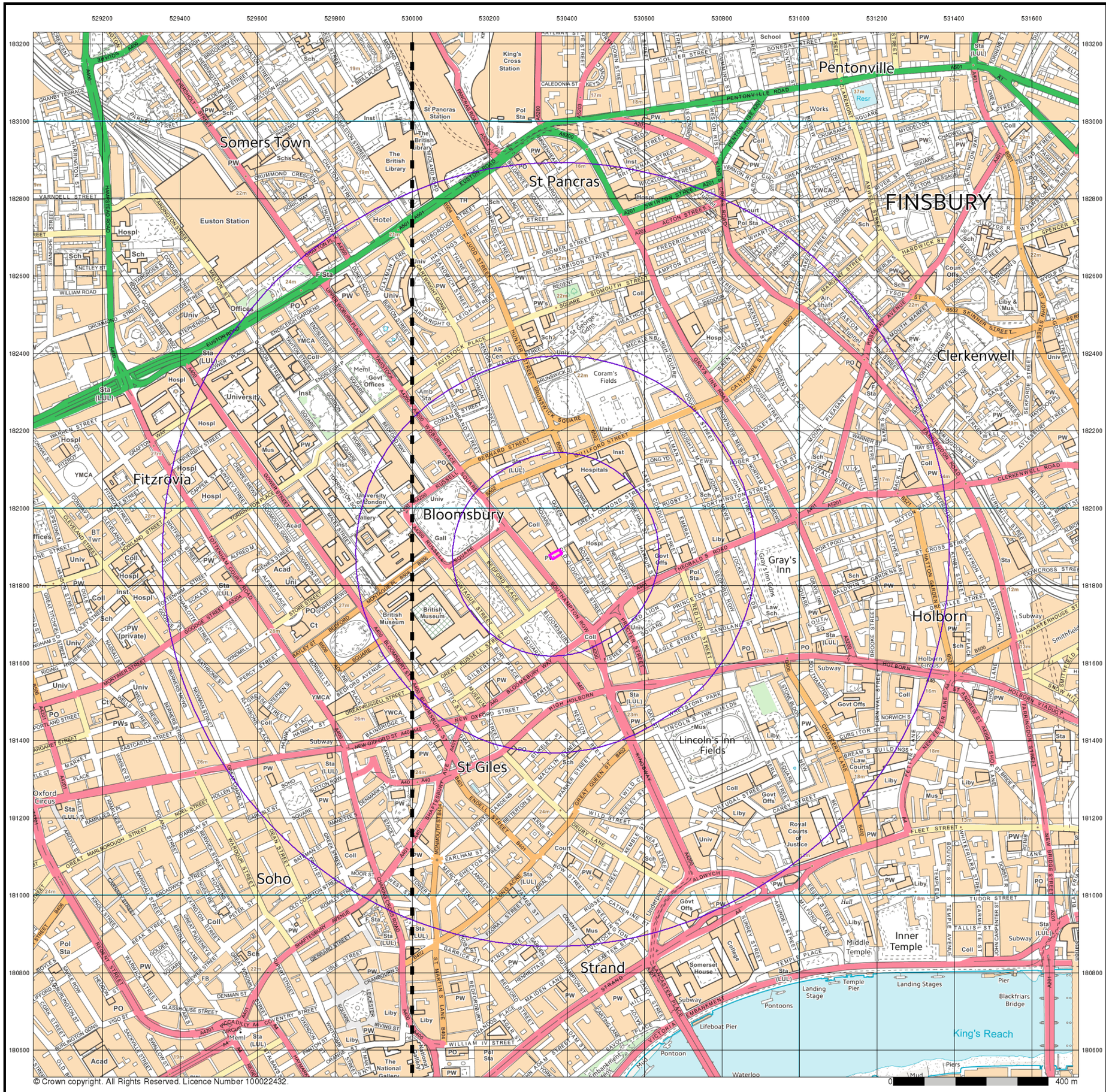
Order Number:	116693910_1_1
Customer Ref:	J17059
National Grid Reference:	530370, 181880
Slice:	A
Site Area (Ha):	0.04
Search Buffer (m):	1000

Site Details

25, Old Gloucester Street, LONDON, WC1N 3AF

Landmark INFORMATION GROUP

Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



Geotechnical & Environmental Associates

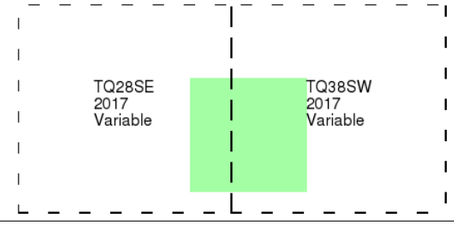
VectorMap Local

Published 2017

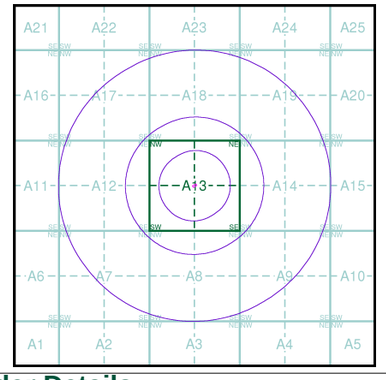
Source map scale - 1:10,000

VectorMap Local (Raster) is Ordnance Survey's highest detailed 'backdrop' mapping product. These maps are produced from OS's VectorMap Local, a simple vector dataset at a nominal scale of 1:10,000, covering the whole of Great Britain, that has been designed for creating graphical mapping. OS VectorMap Local is derived from large-scale information surveyed at 1:1250 scale (covering major towns and cities),1:2500 scale (smaller towns, villages and developed rural areas), and 1:10 000 scale (mountain, moorland and river estuary areas).

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number:	116693910_1_1
Customer Ref:	J17059
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Site Details

25, Old Gloucester Street, LONDON, WC1N 3AF

Landmark INFORMATION GROUP

Tel: 0844 844 9952
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Web: www.envirocheck.co.uk

Geotechnical & Environmental Associates

Widbury Barn
Widbury Hill
Ware
Herts SG12 7QE

Site Plan

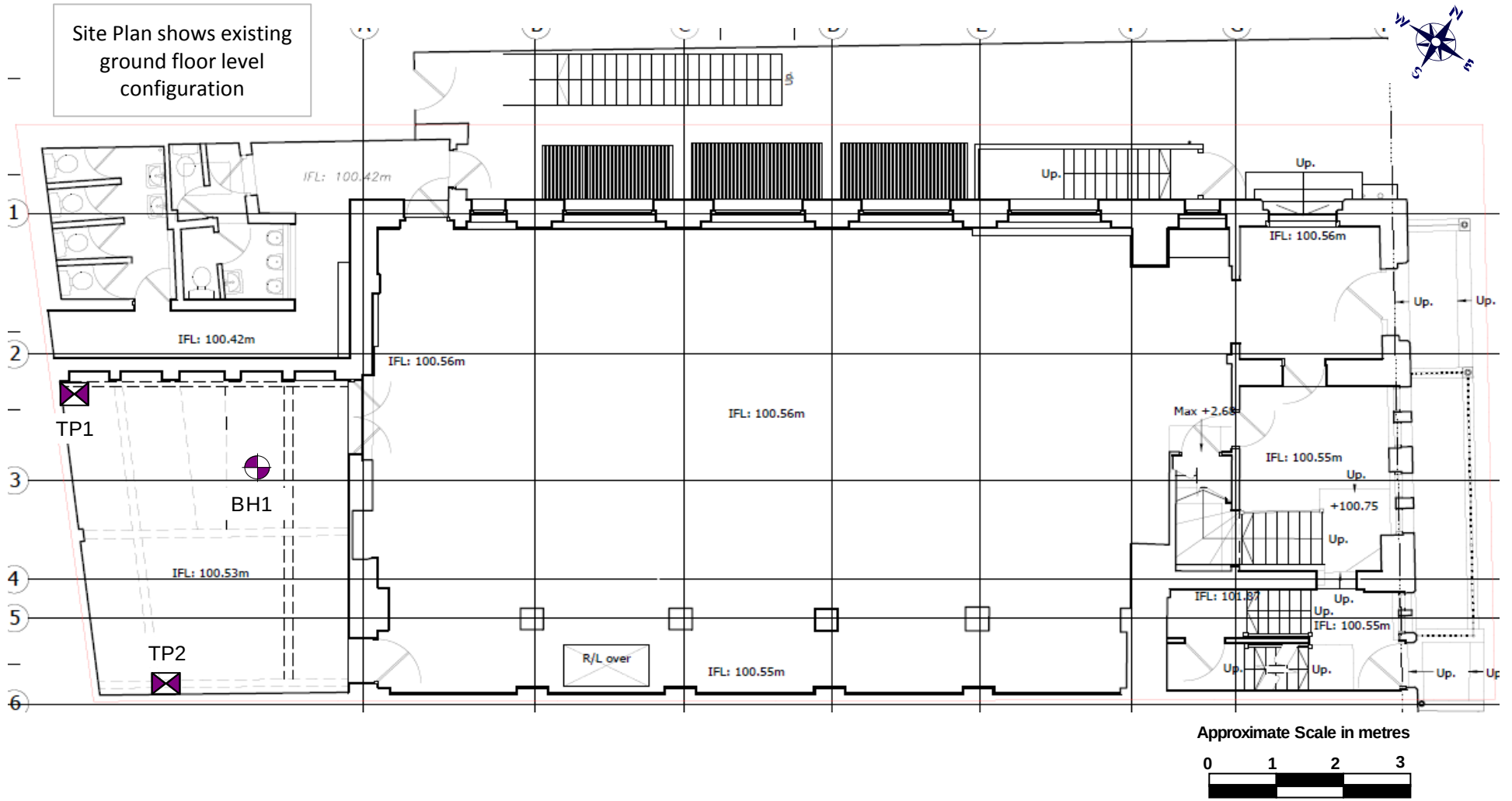
Site 25 Gloucester Road, London, WC1N 3AF

Client Nilkanth Estates

Engineer Parmarbrook

Job Number J17059

Sheet 1 / 1



GEA Geotechnical & Environmental Associates

Widbury Barn
Widbury Hill
Ware
Herts SG12 7QE

Site Plan

Site 25 Gloucester Road, London, WC1N 3AF

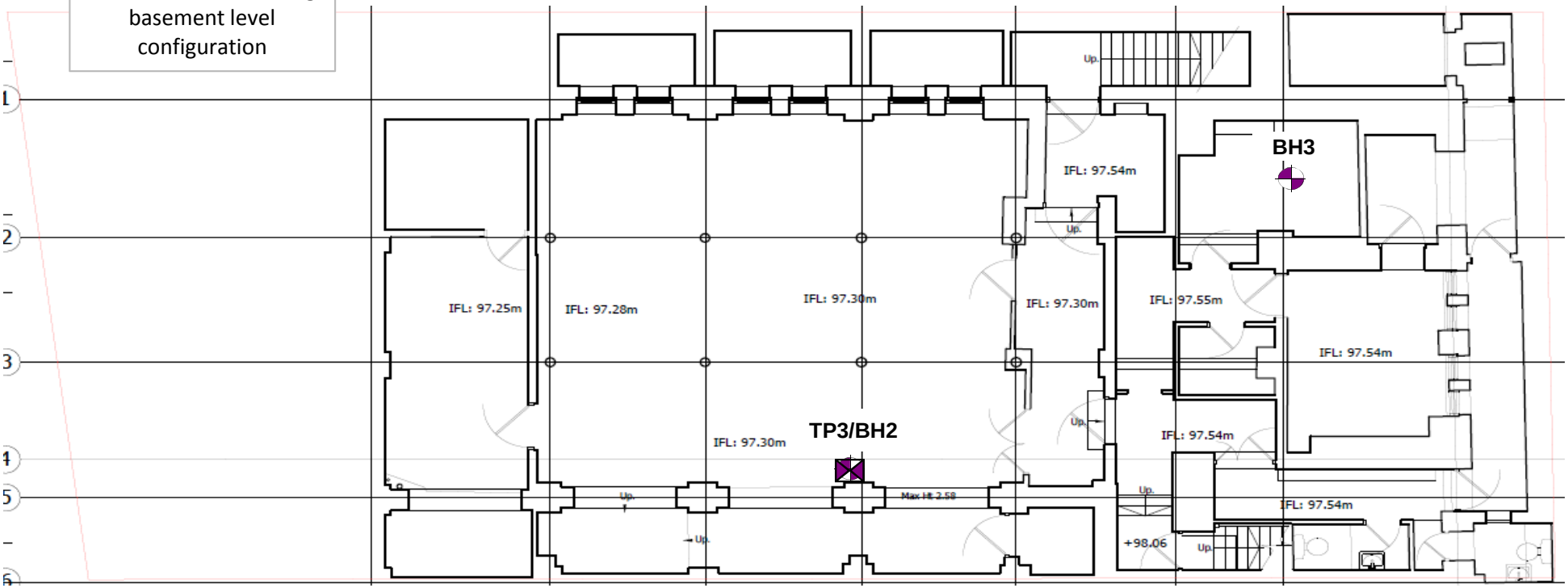
Client Nilkanth Estates

Engineer Parmarbrook

Job Number J17059

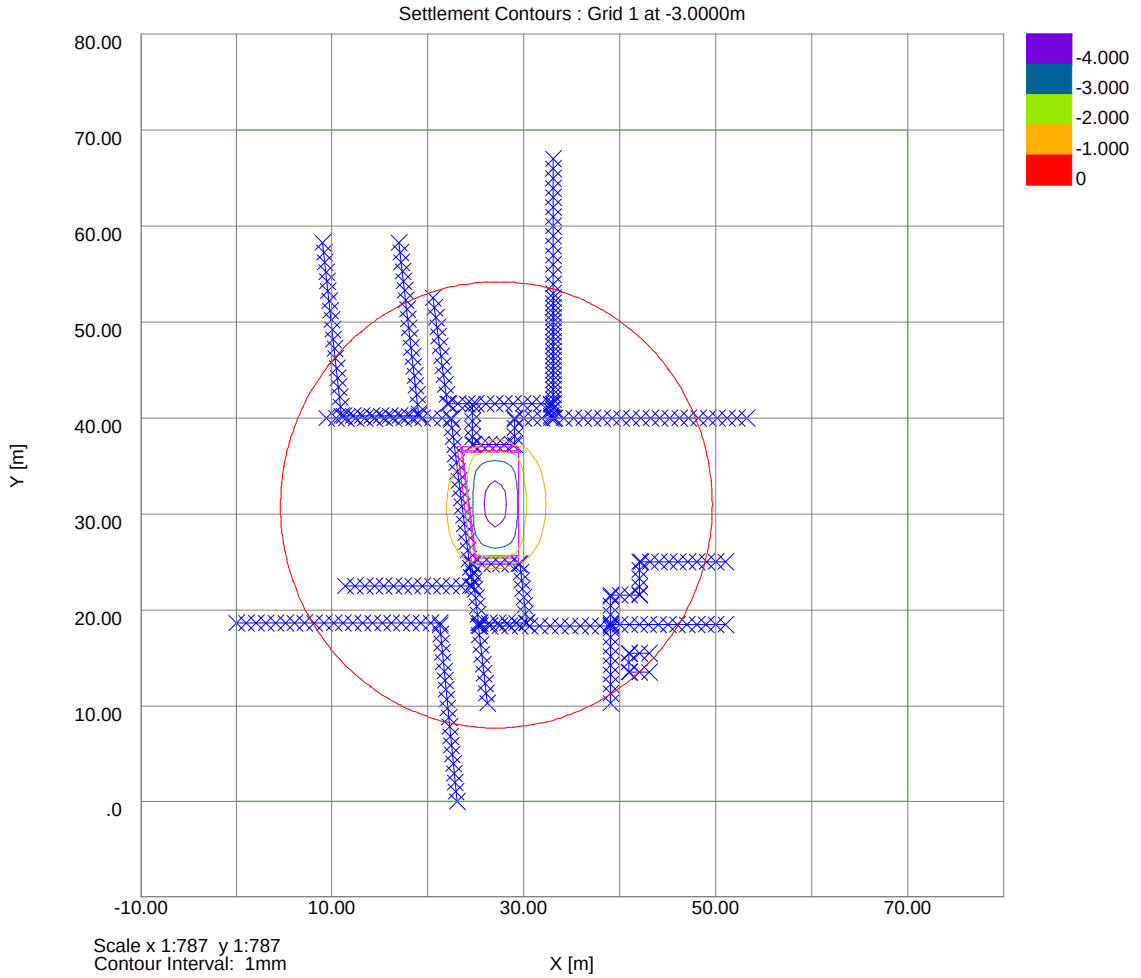
Sheet 1 / 1

Site Plan shows existing basement level configuration



Approximate Scale in metres

0 1 2 3


Settlement Contours : Grid 1 at -3.0000m
-4.000
-3.000
-2.000
-1.000
0
80.00
70.00
60.00
50.00
40.00
30.00
20.00
10.00
.0
Y [m]
-10.00
10.00
30.00
50.00
70.00
X [m]
Scale x 1:787 y 1:787
Contour Interval: 1mm

Oasys

25 Old Gloucester Street, London, WC1N 3AF

Overall Term Movements

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Drg. Ref.

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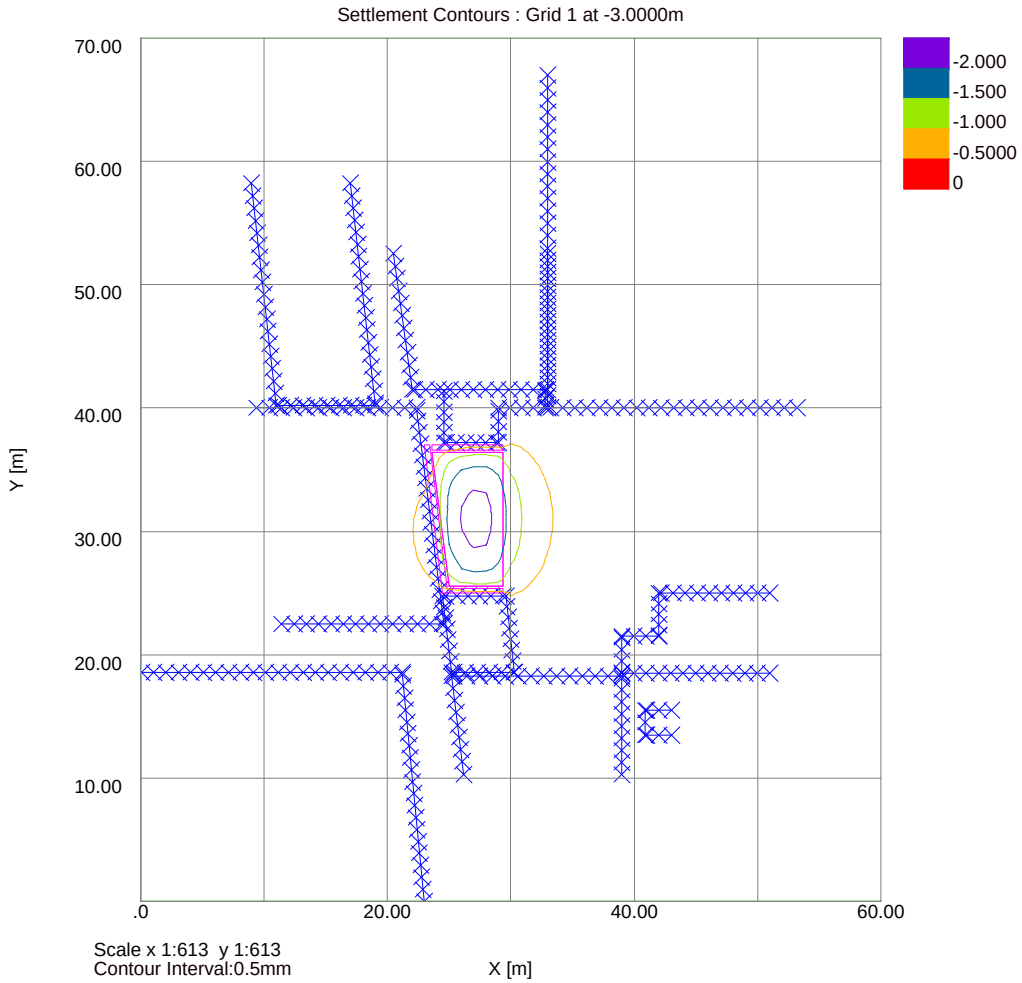
AT		



Oasys

25 Old Gloucester Street, London, WC1N 3AF

Overall Term Movements

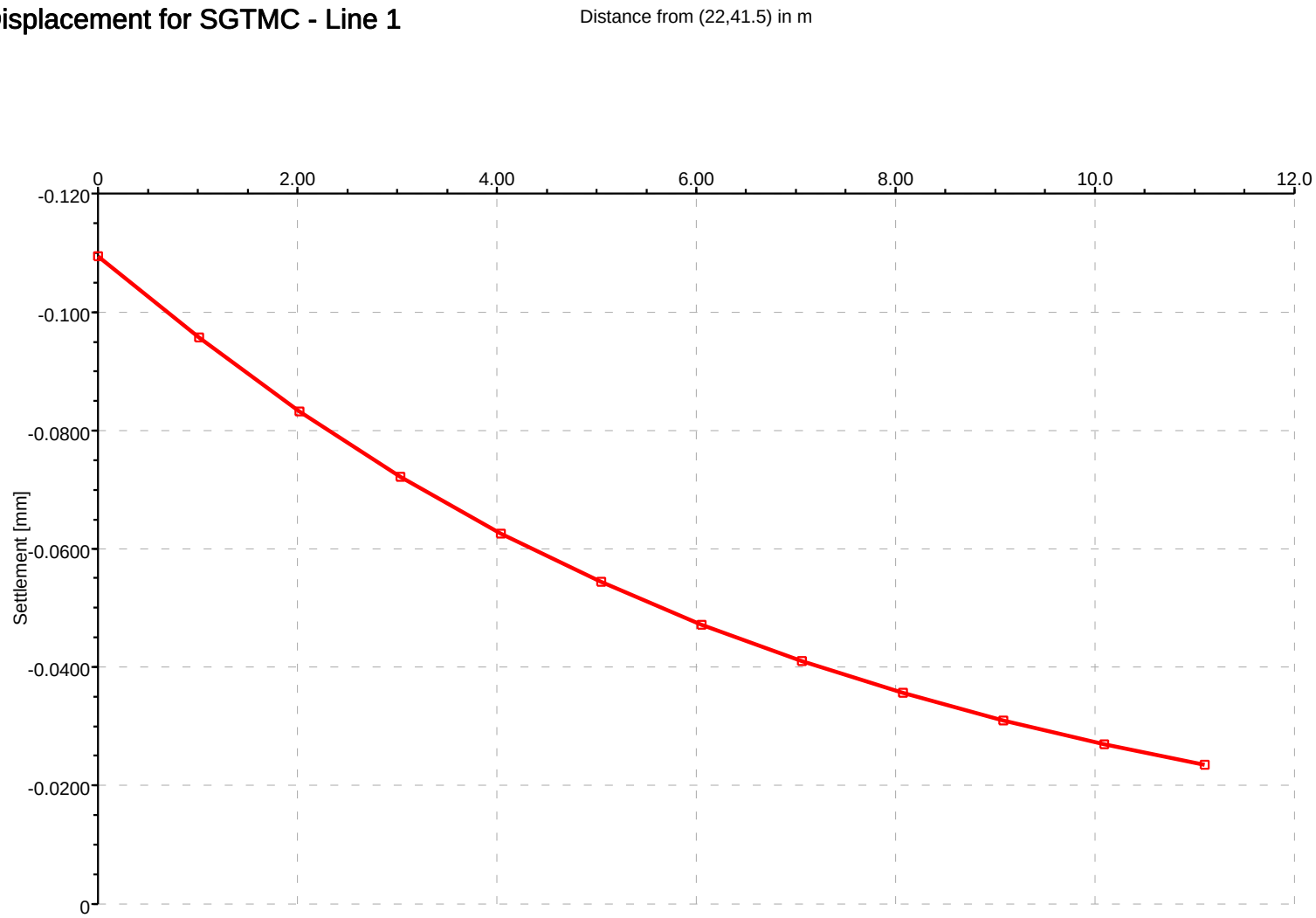
Job No.	Sheet No.	Rev.
J17059		

Drg. Ref.

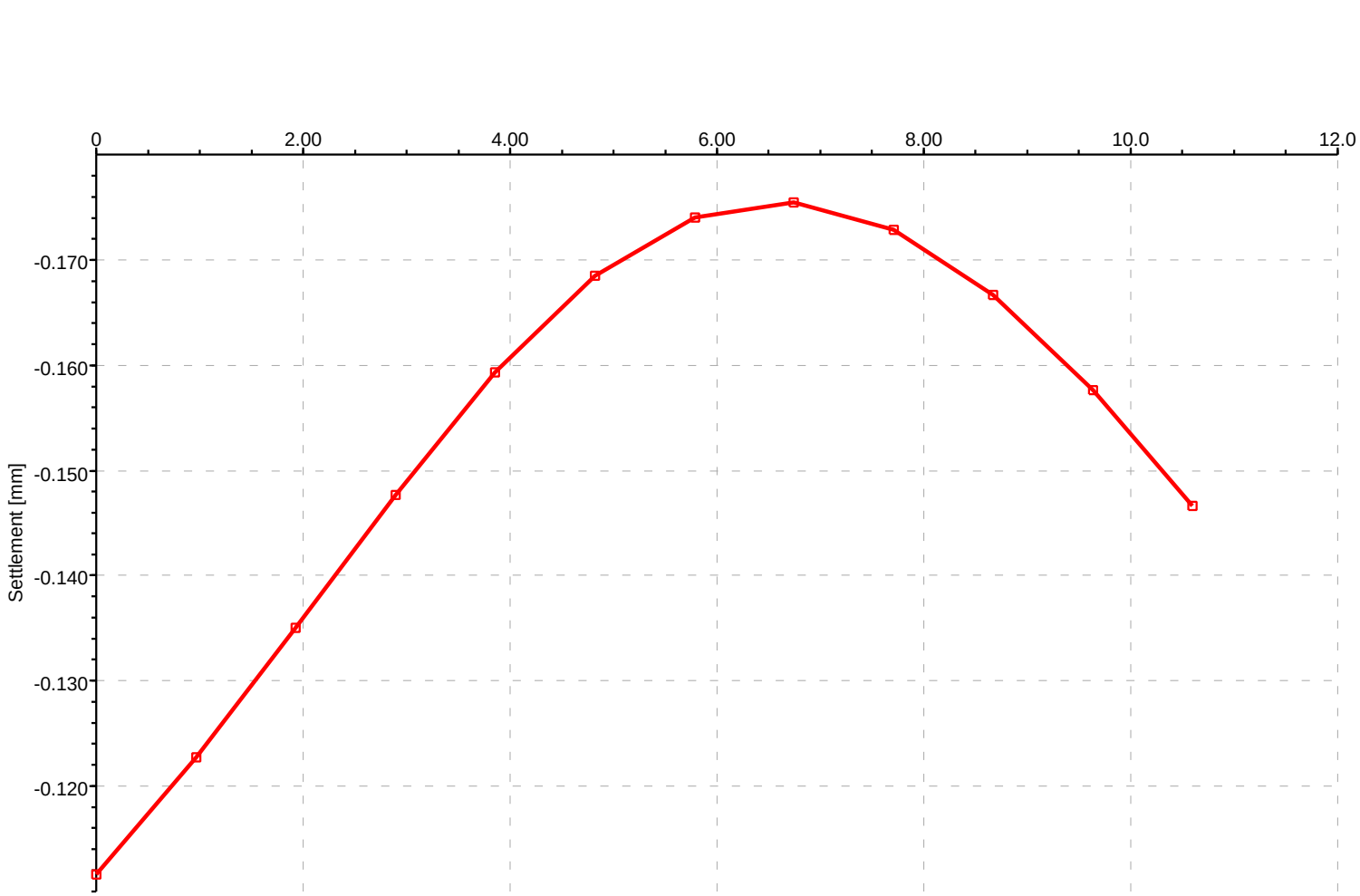
Made by	Date	Checked
AT		

Displacement for SGTMC - Line 1

Distance from (22,41.5) in m

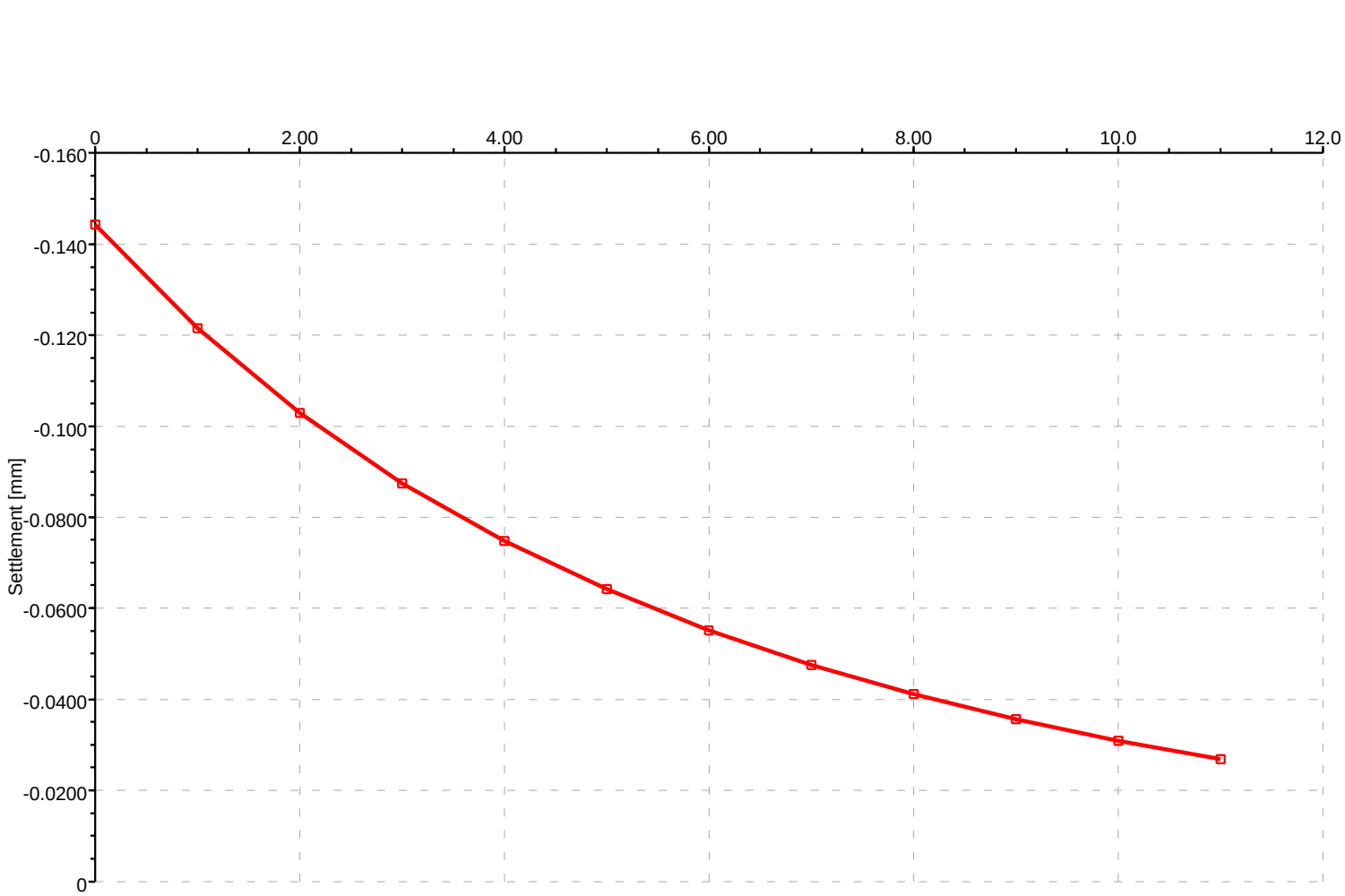


Displacement for SGTMC - Line 2

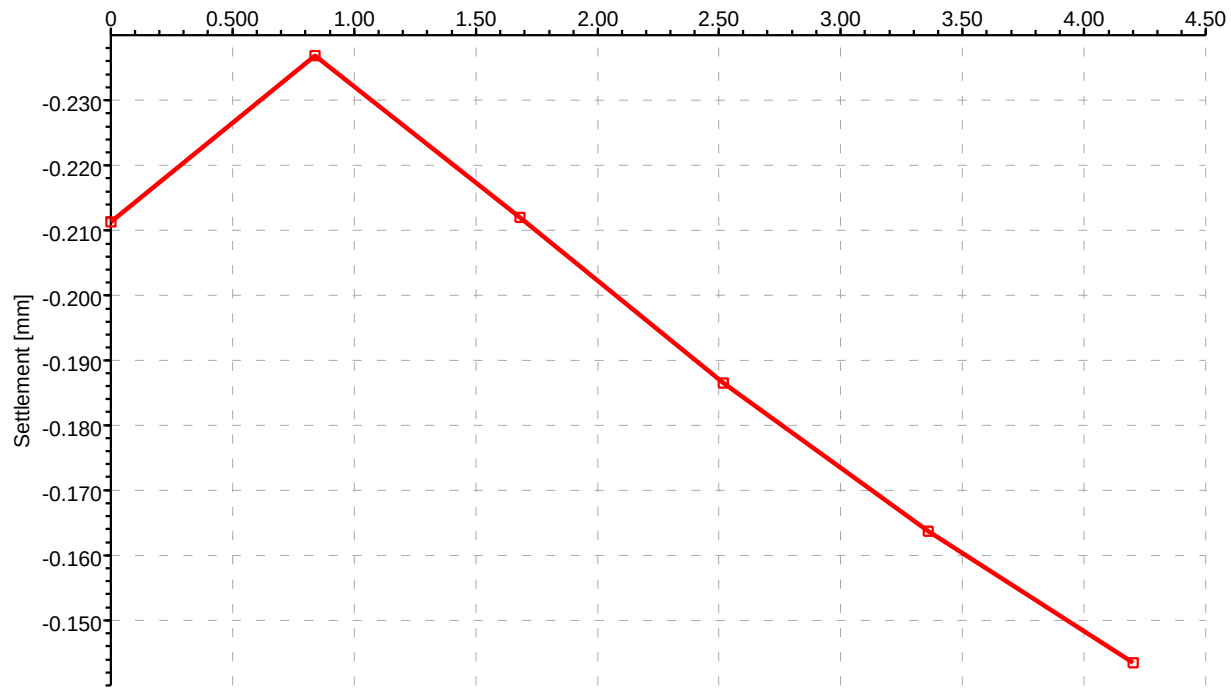


Displacement for SGTMC - Line 3

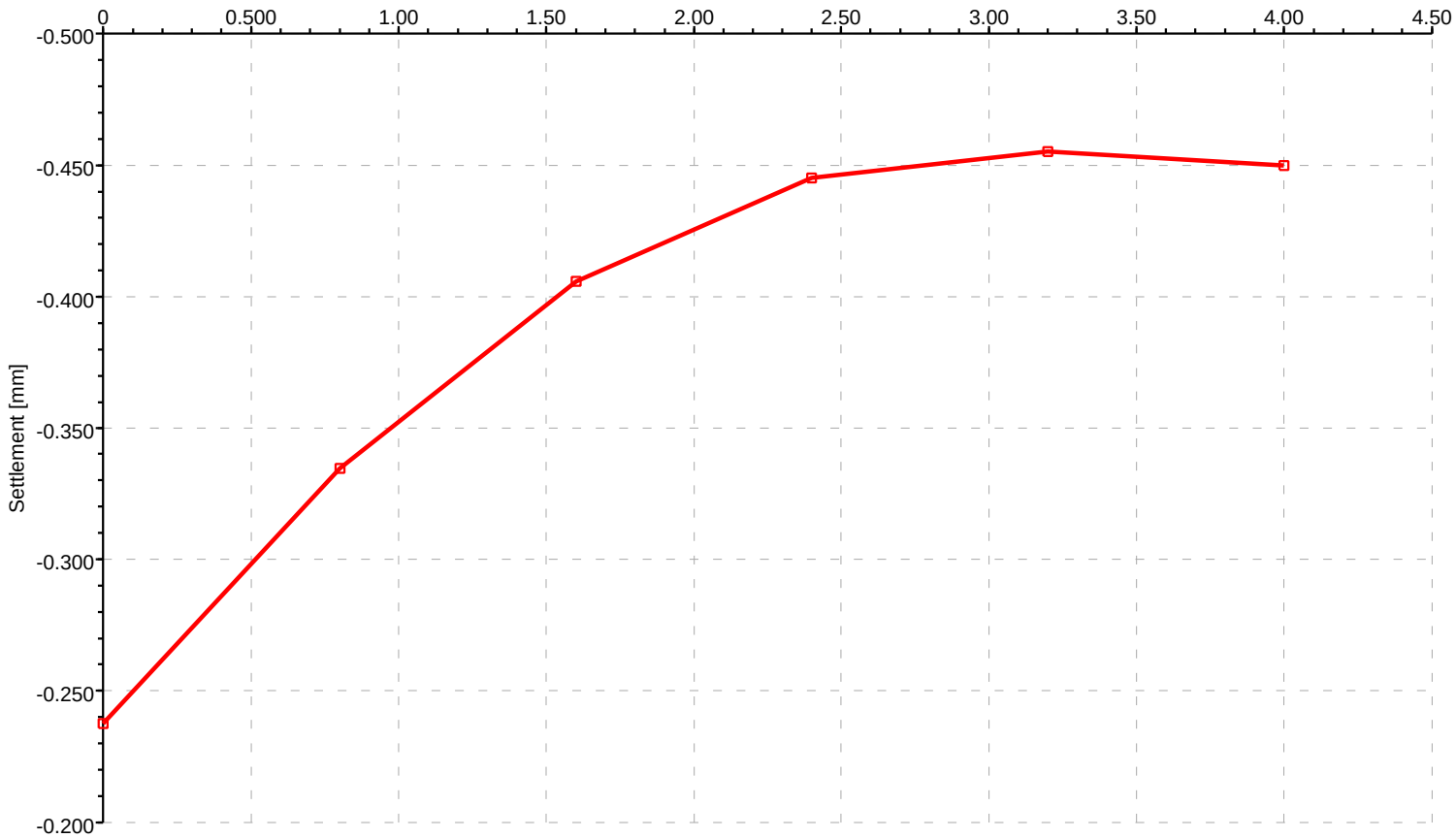
Distance from (33,41.5) in m



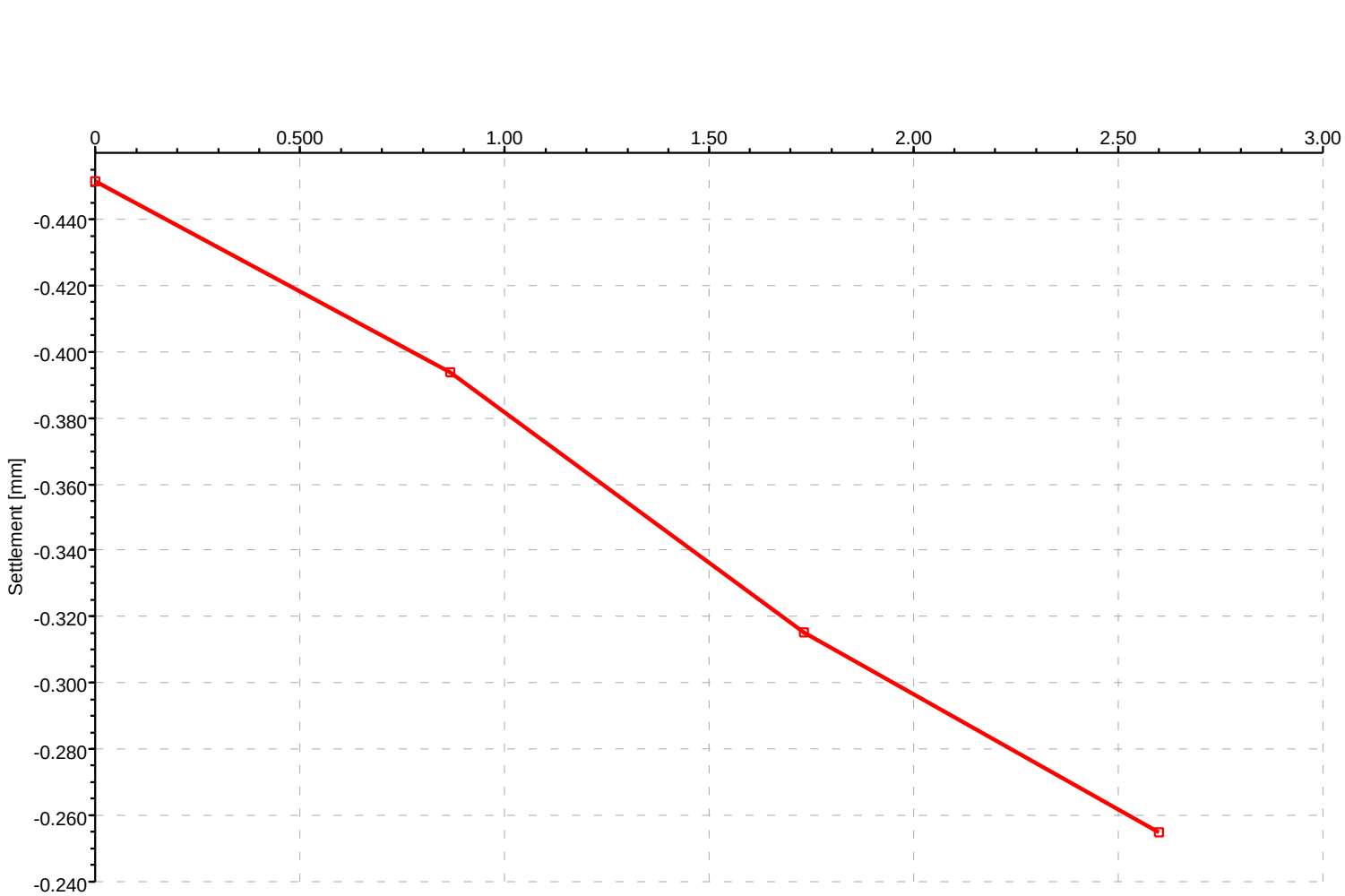
Displacement for SGTMC - Line 4



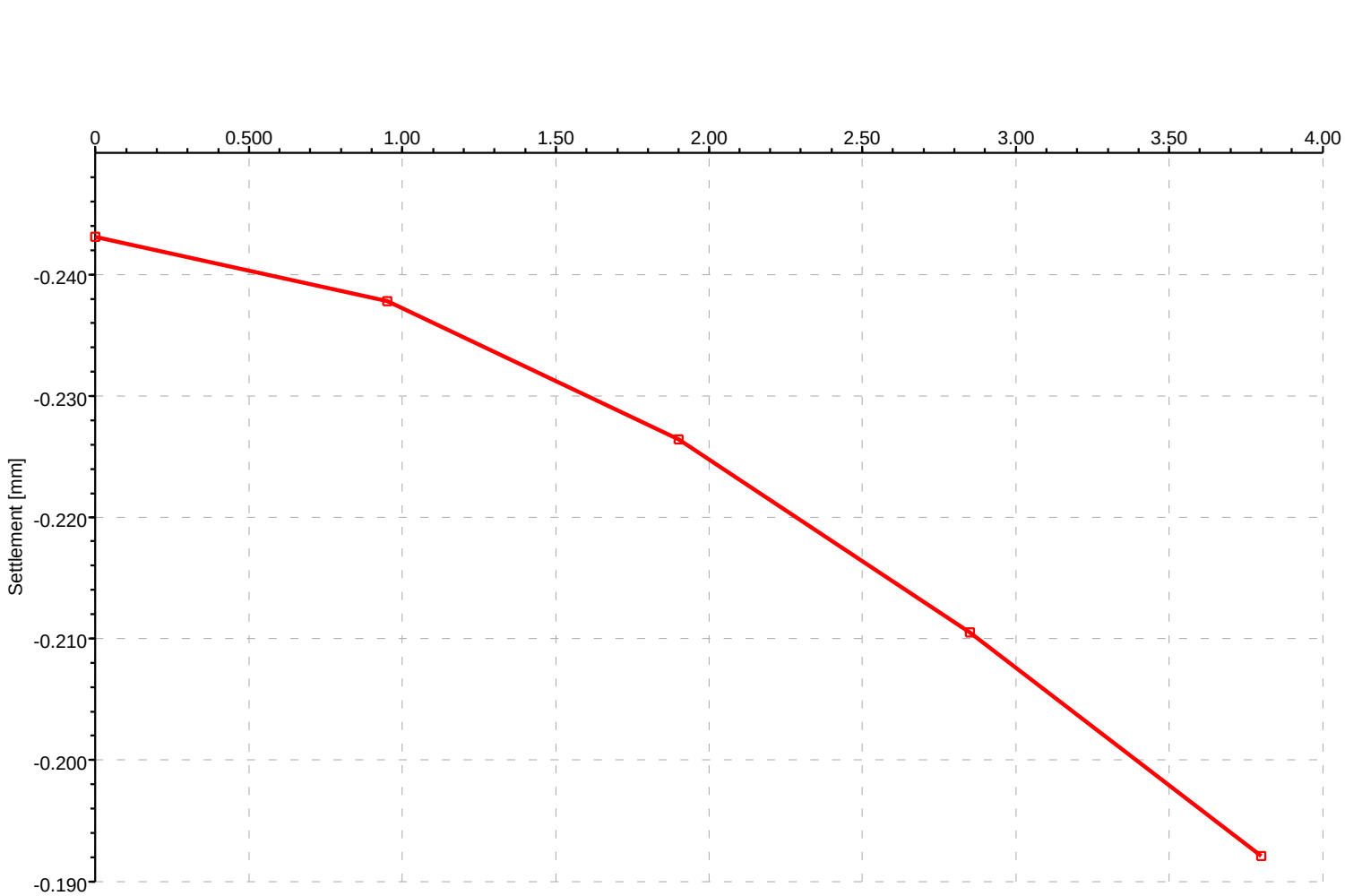
Displacement for SGTMC - Line 5



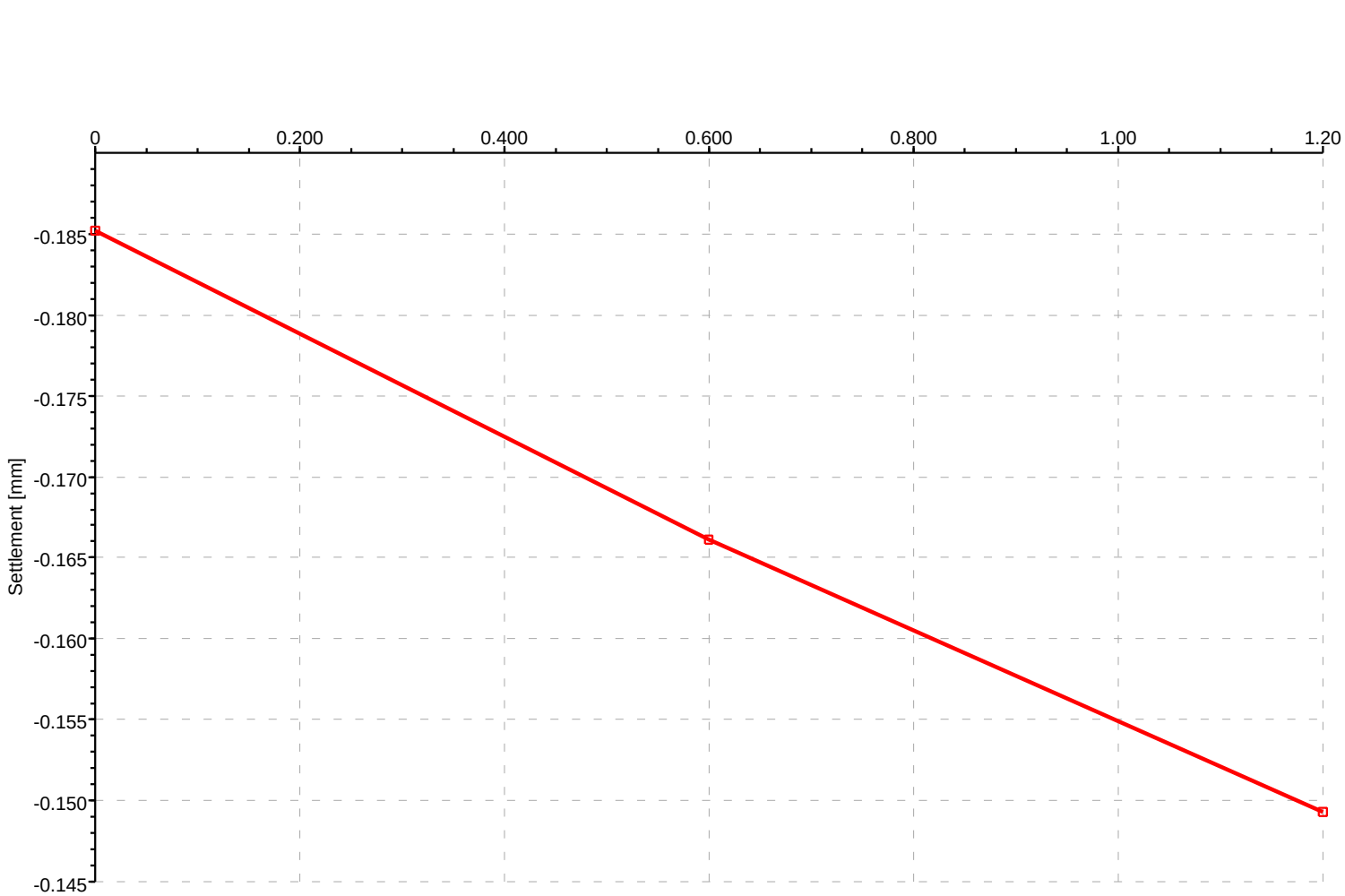
Displacement for SGTMC - Line 6



Displacement for SGTMC - Line 7



Displacement for SGTMC - Line 8



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25 Old Gloucester Street, London, WC1N 3AF
Overall Term Movements

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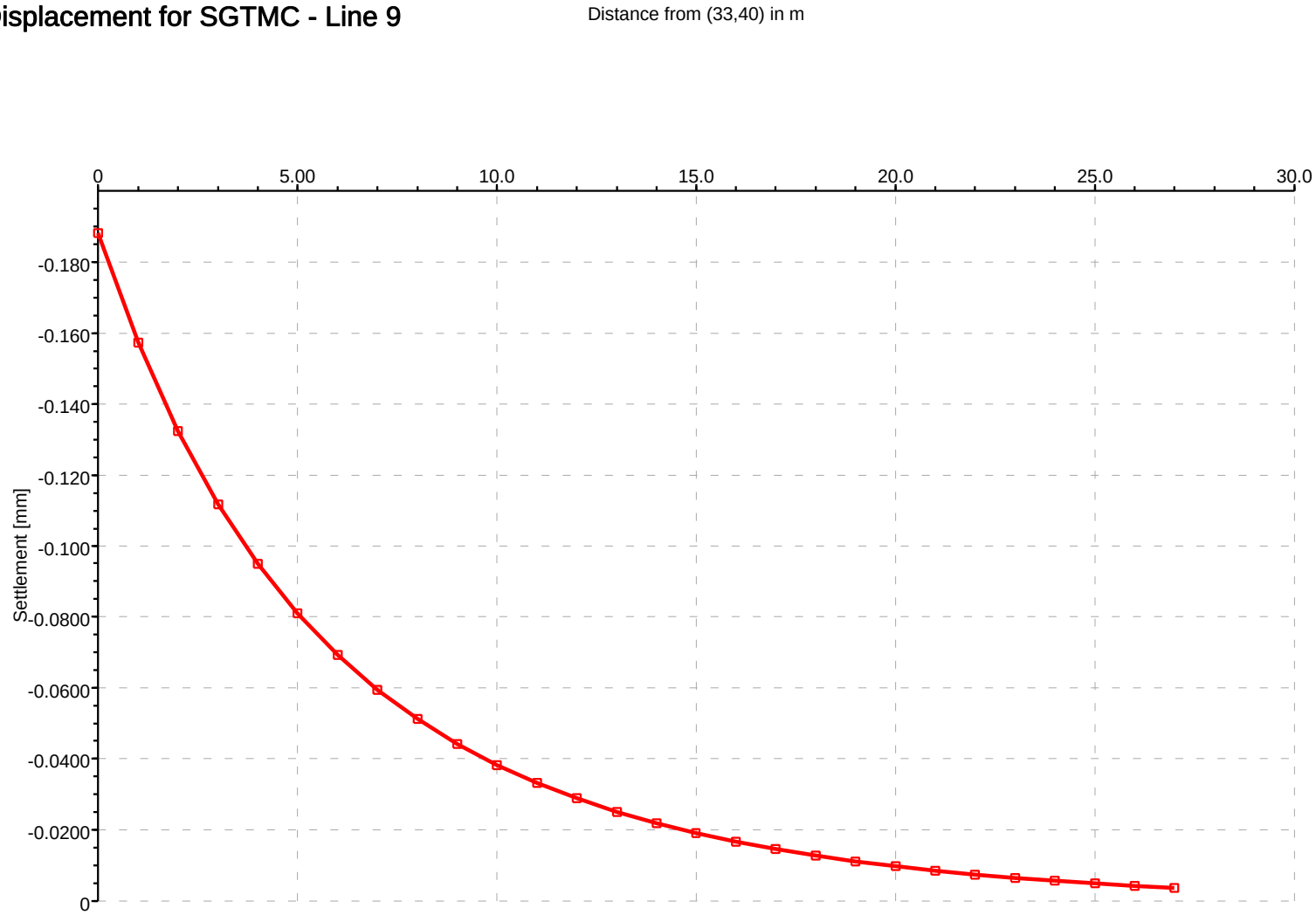
Made by AT	Date	Checked

Displacement for SGTMC - Line 9

Distance from (33,40) in m



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25 Old Gloucester Street, London, WC1N 3AF

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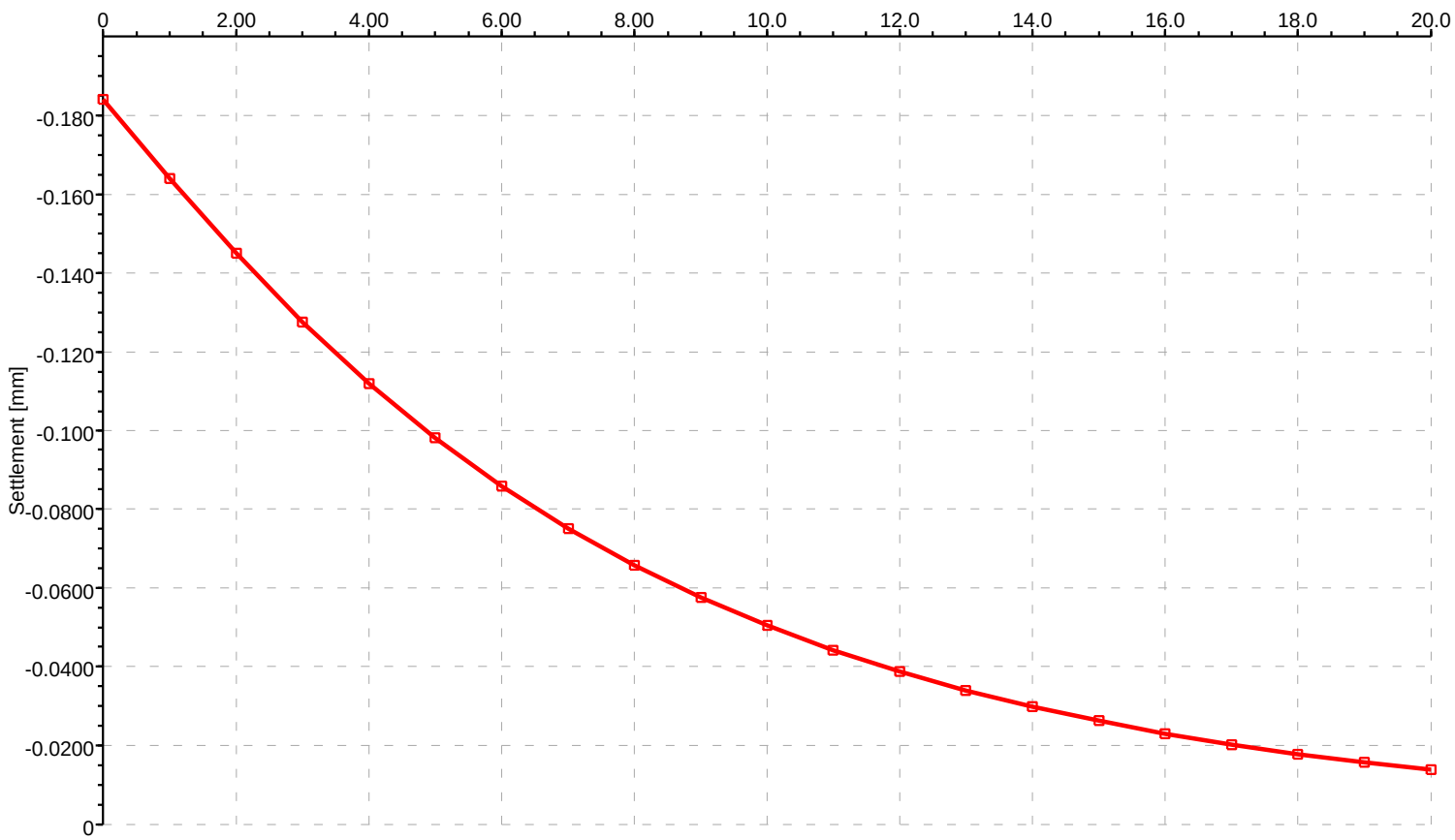
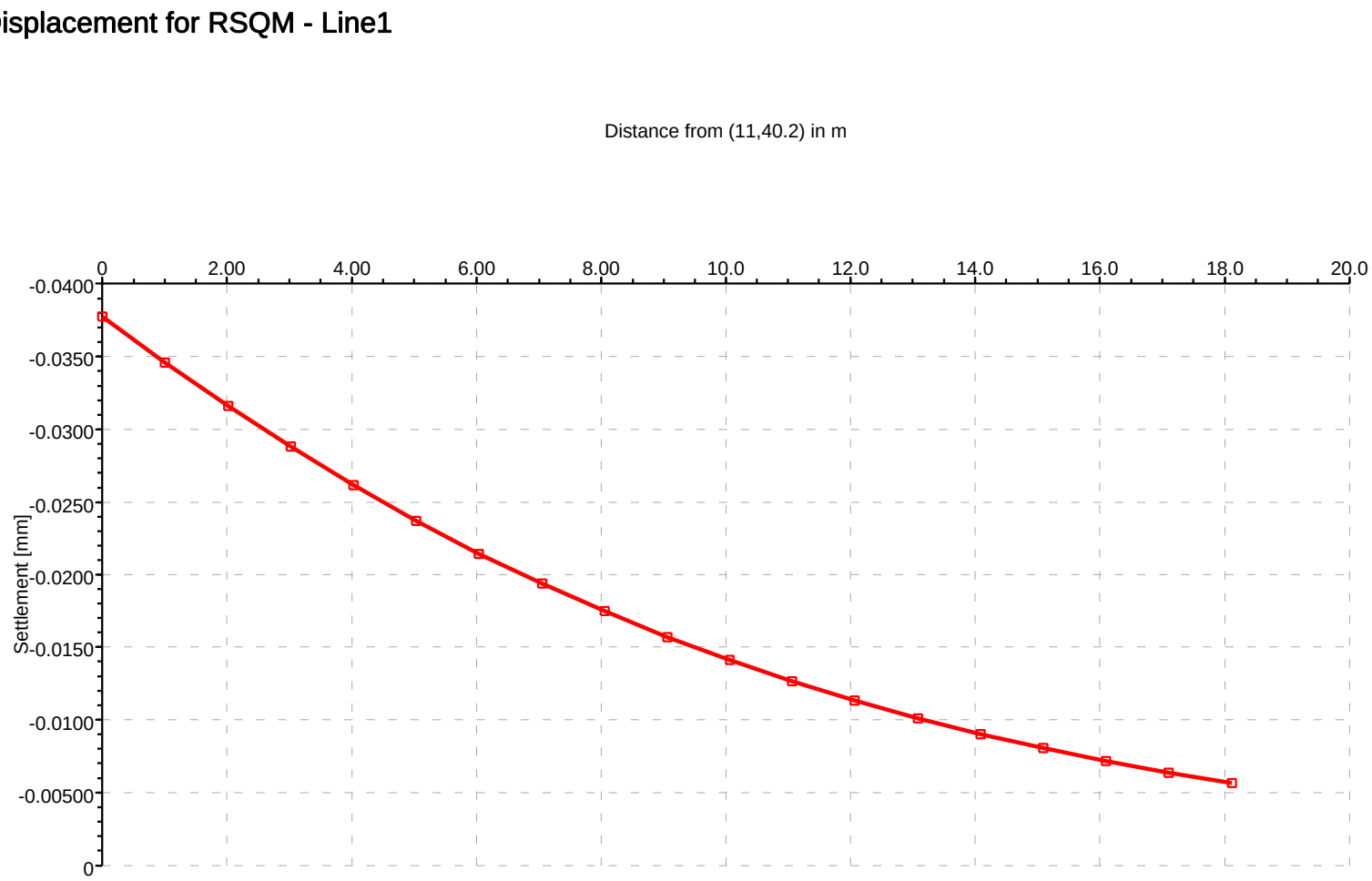
Displacement for SGTMC - Line 10

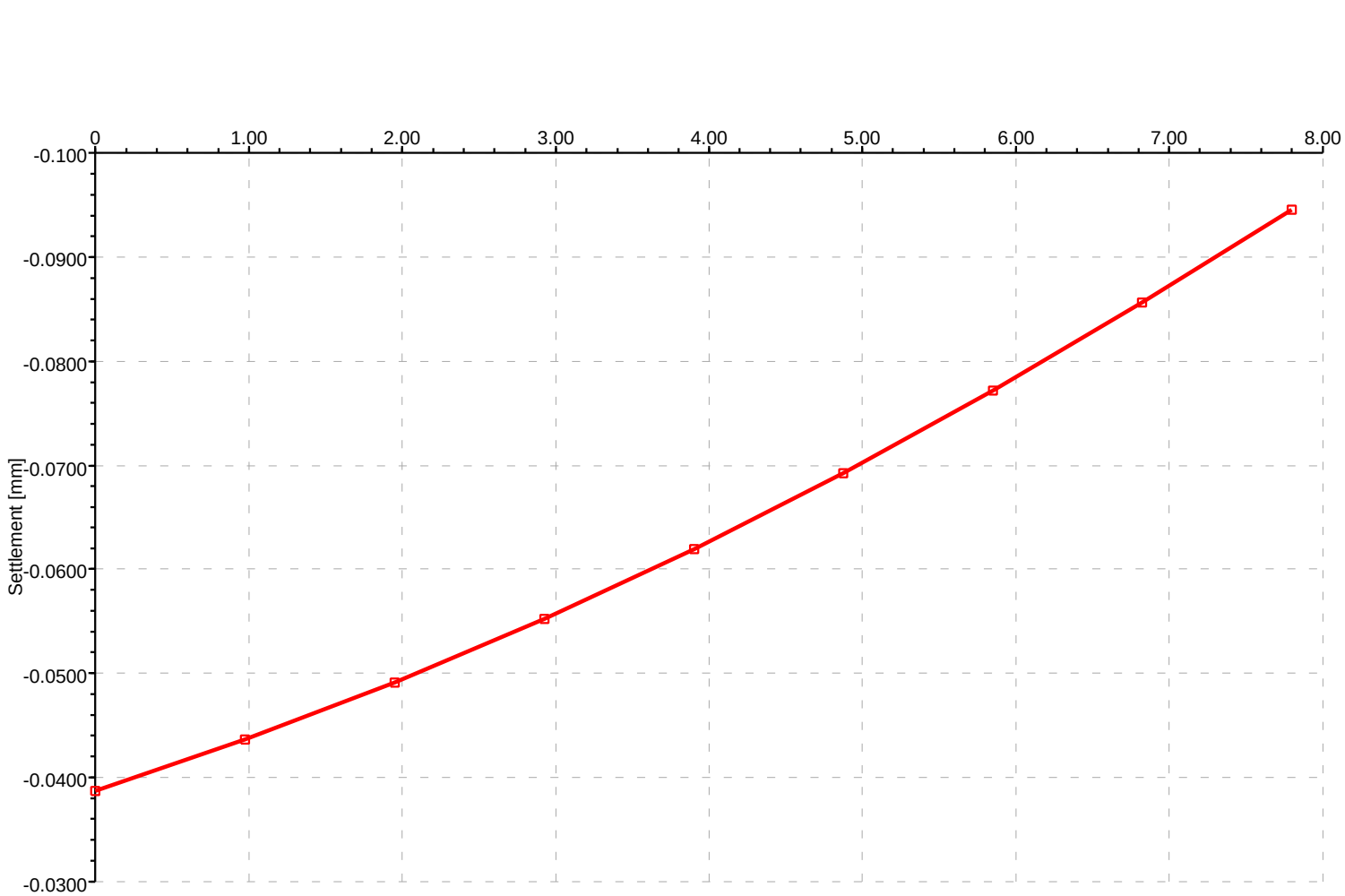
Distance from (33.2,40) in m



Displacement for RSQM - Line1

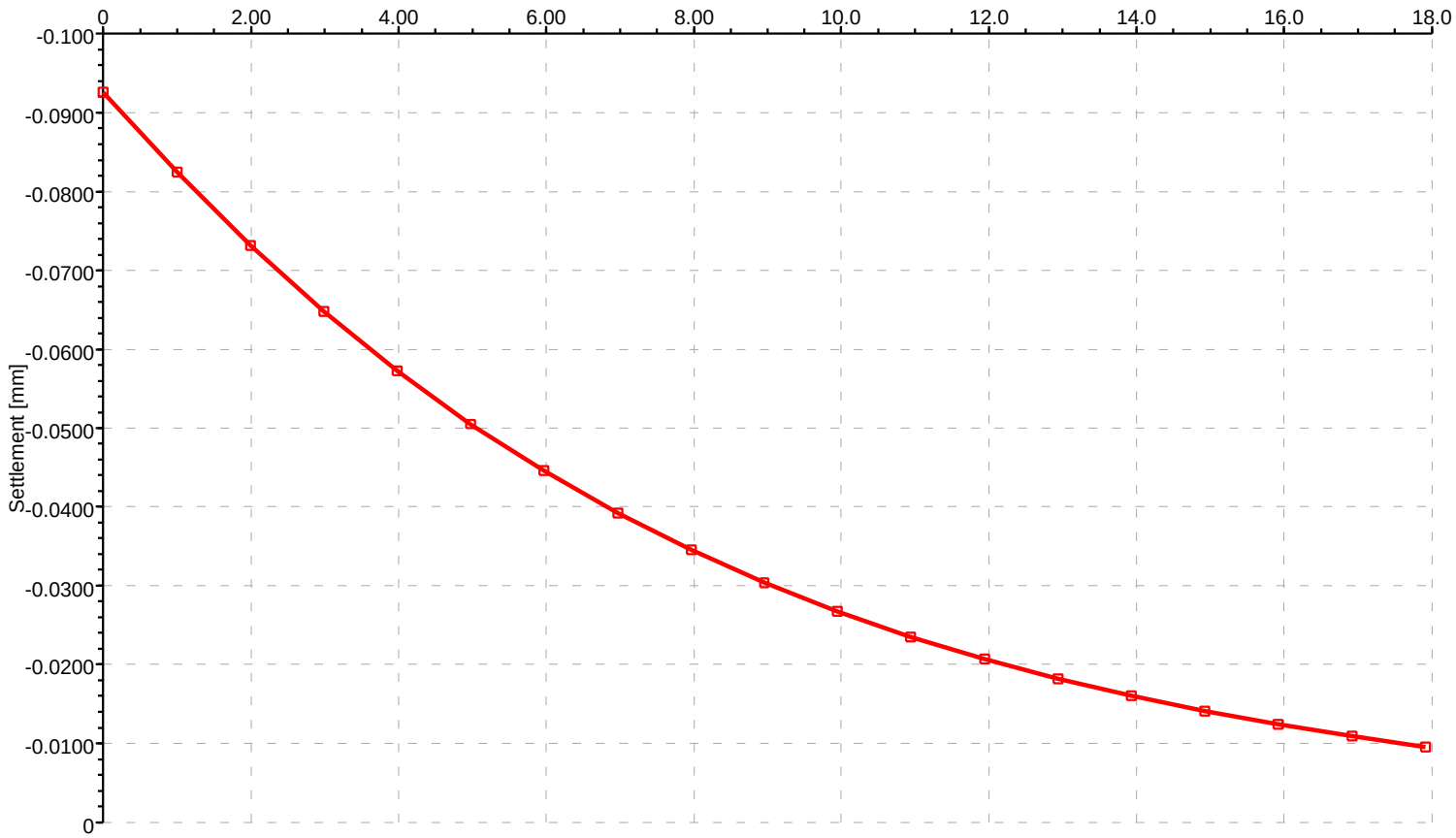


Displacement for RSQM - Line 2



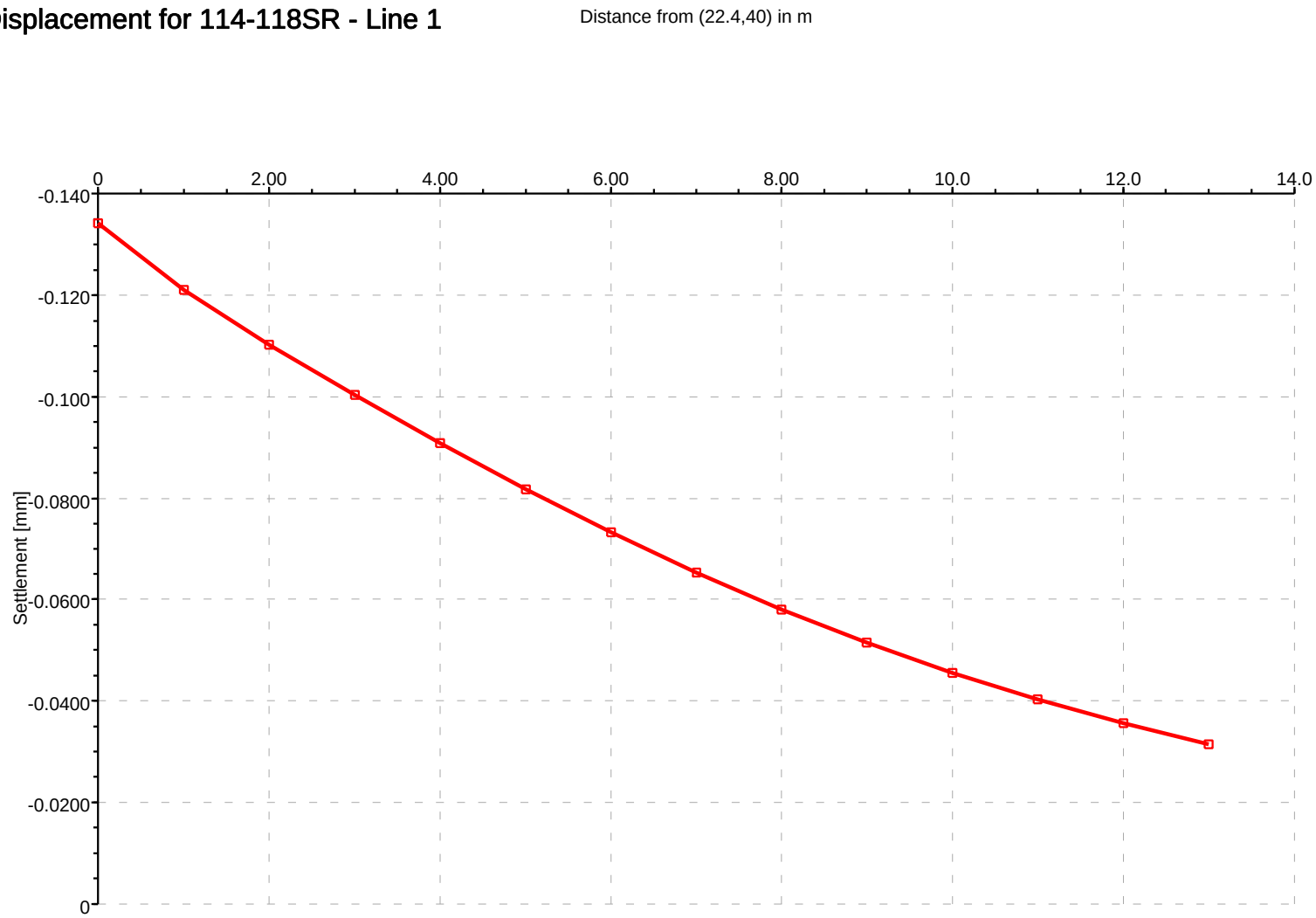
Displacement for RSQM - Line 3

Distance from (19,40.4) in m



Displacement for 114-118SR - Line 1

Distance from (22.4,40) in m



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25 Old Gloucester Street, London, WC1N 3AF
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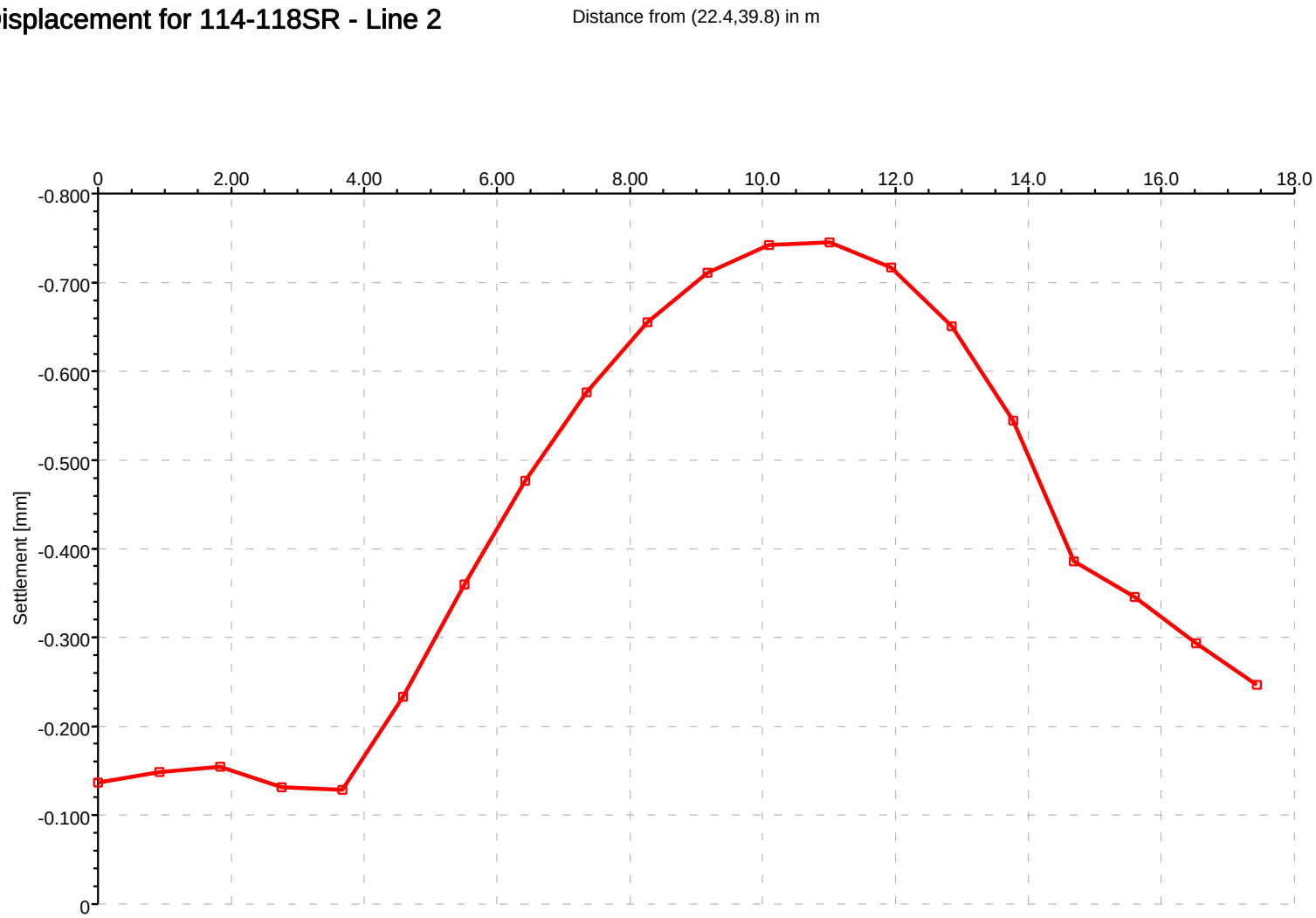
Made by AT	Date	Checked

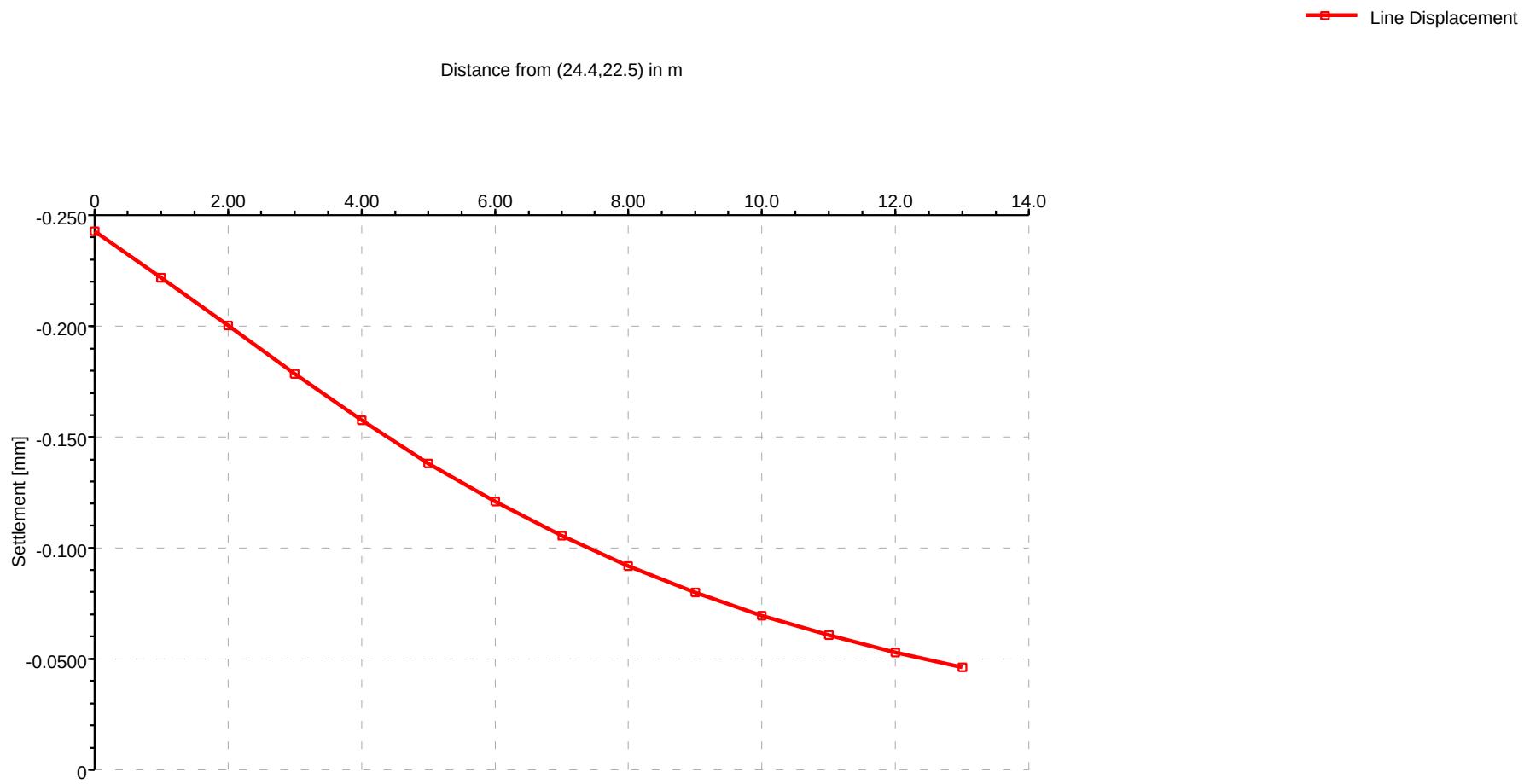
Displacement for 114-118SR - Line 2

Distance from (22.4,39.8) in m



Job No.	Sheet No.	Rev.
J17059		
Drg. Ref.		
Made by AT	Date	Checked

Displacement for 114-118SR - Line 3



Oasys
25 Old Gloucester Street, London, WC1N 3AF
Overall Term Movements

Job No.	Sheet No.	Rev.
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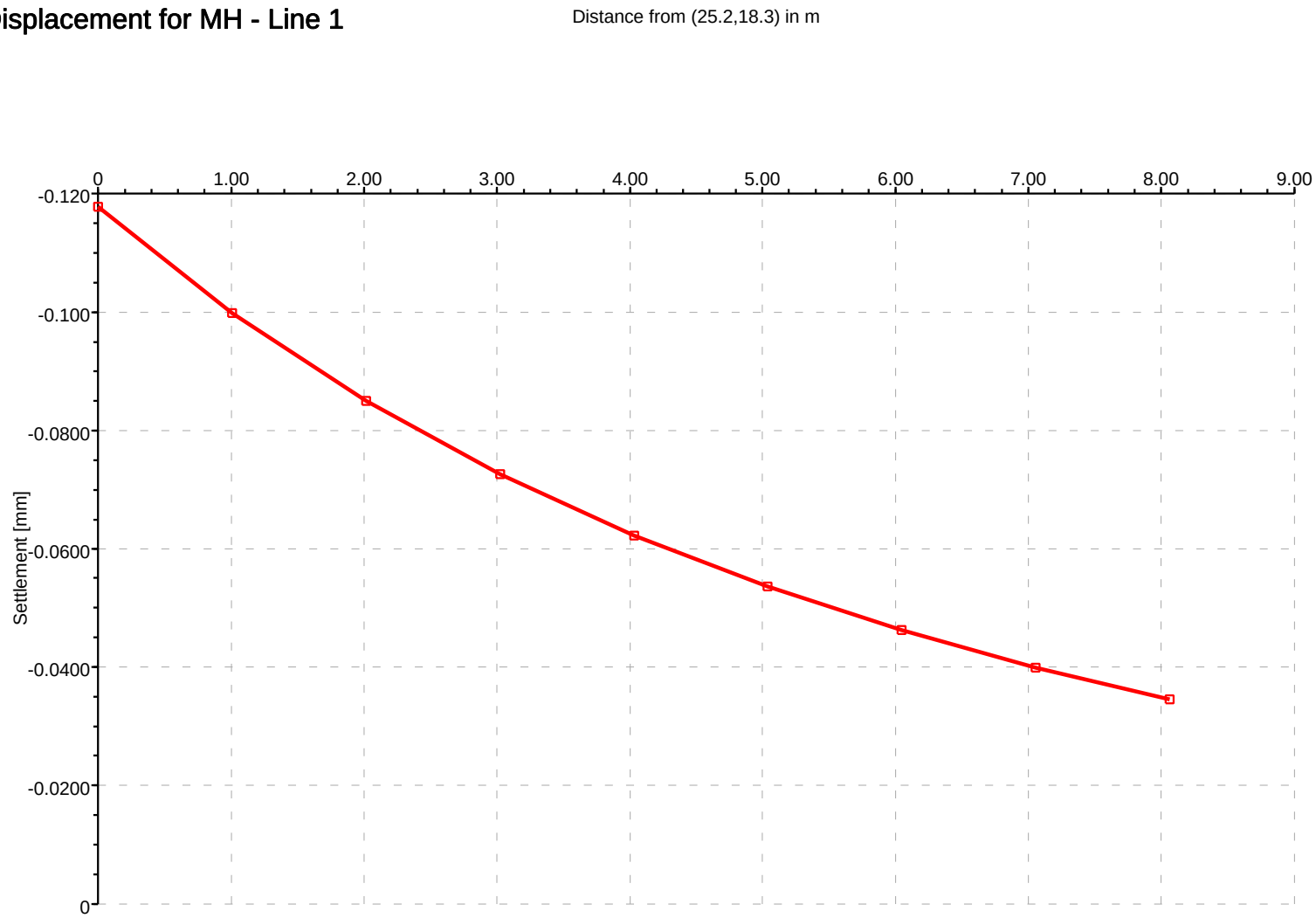
Drg. Ref.		
Made by AT	Date	Checked

Displacement for MH - Line 1

Distance from (25.2,18.3) in m

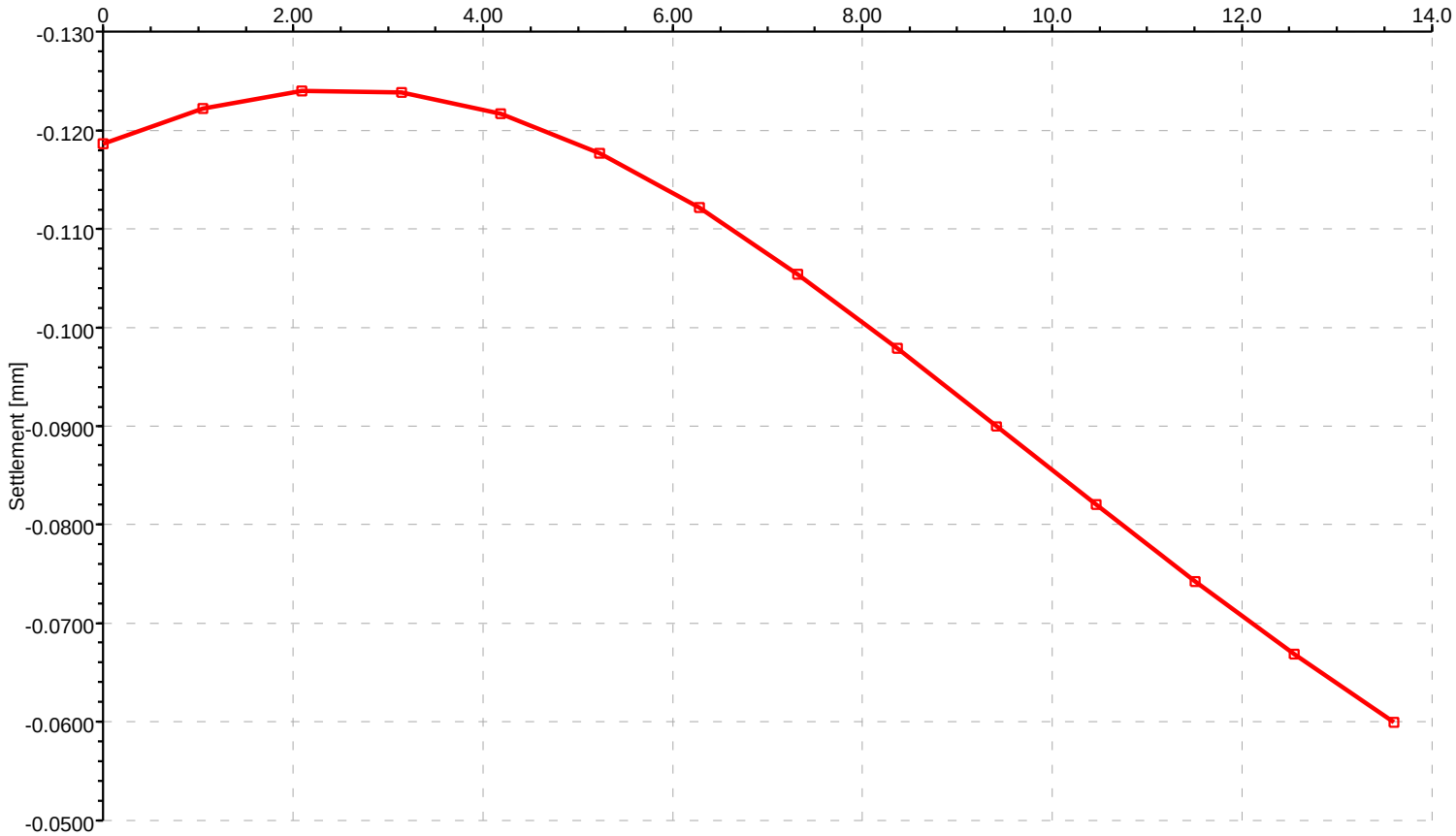


Job No.	Sheet No.	Rev.
J17059		

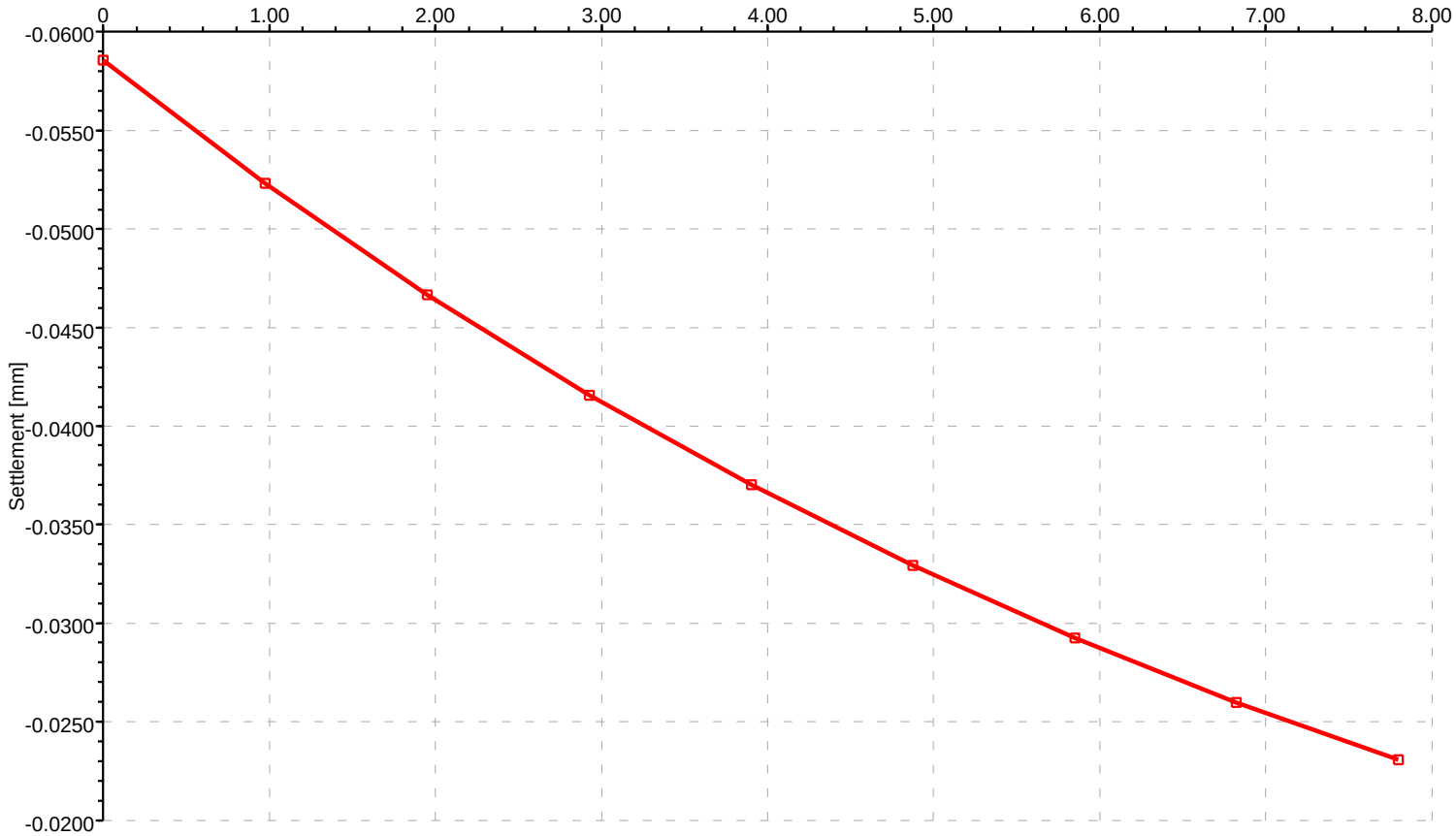
Drg. Ref.

Made by AT | Date | Checked

Displacement for MH - Line 2

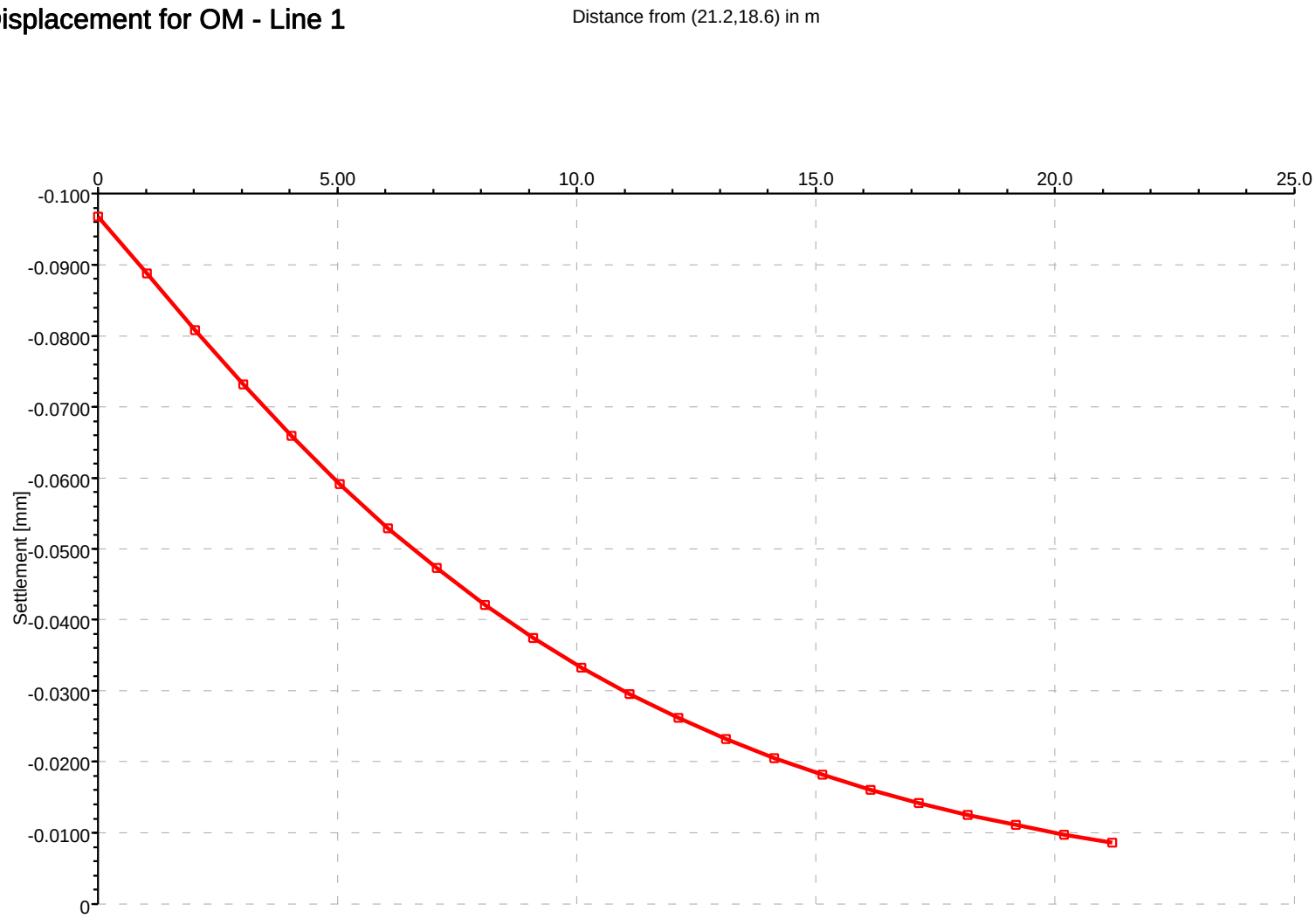


Displacement for MH - Line 3



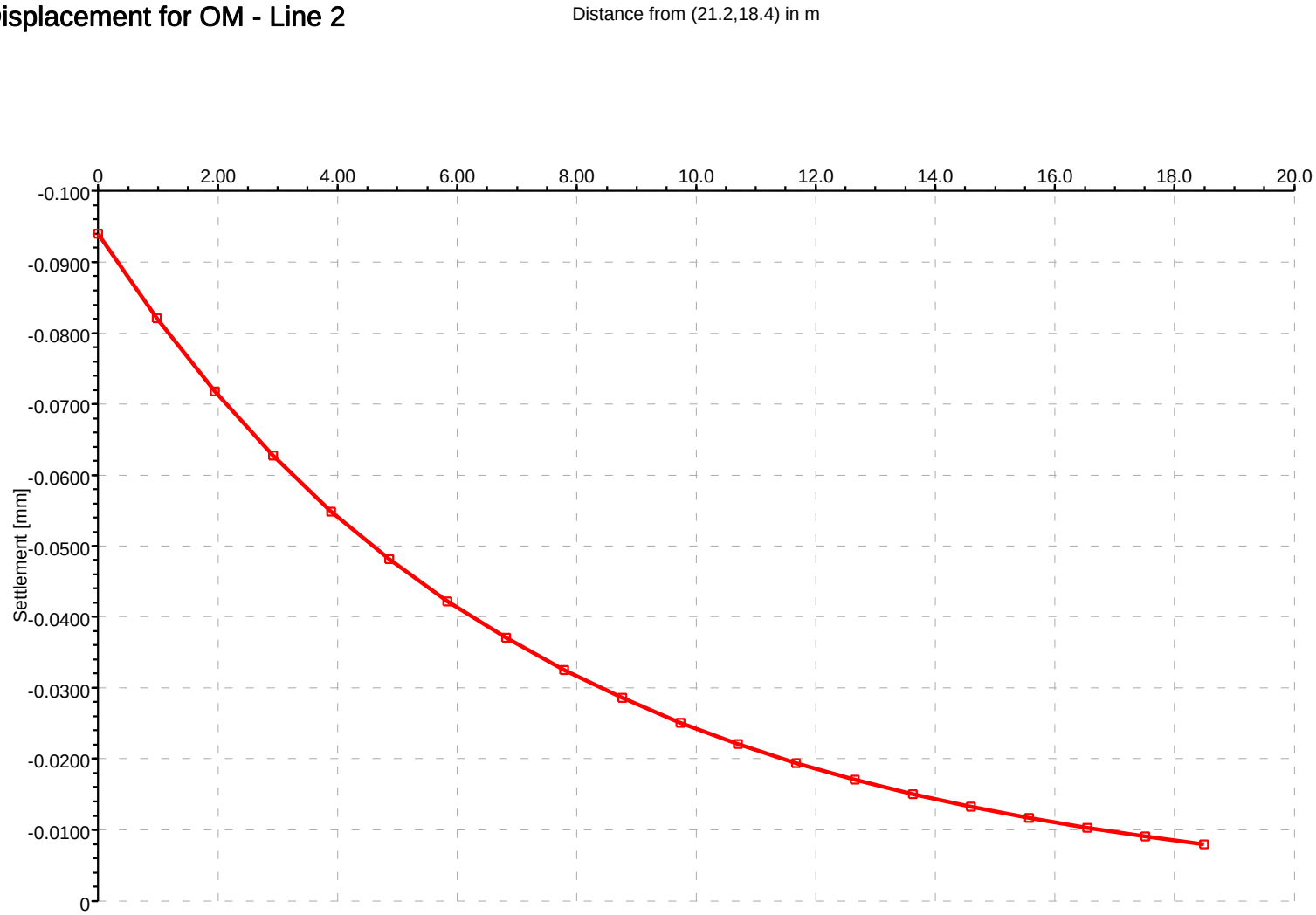
Displacement for OM - Line 1

Distance from (21.2,18.6) in m

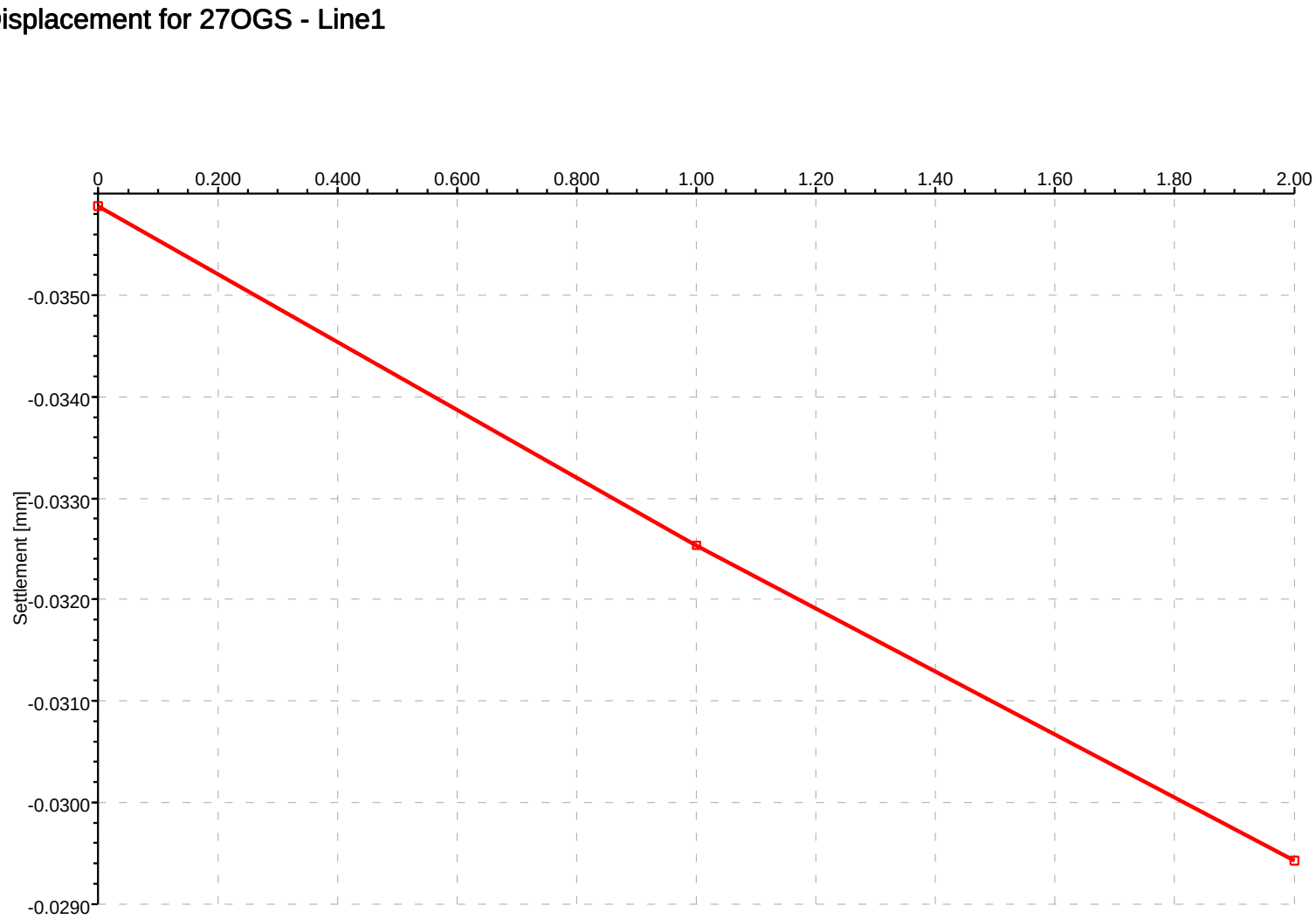


Displacement for OM - Line 2

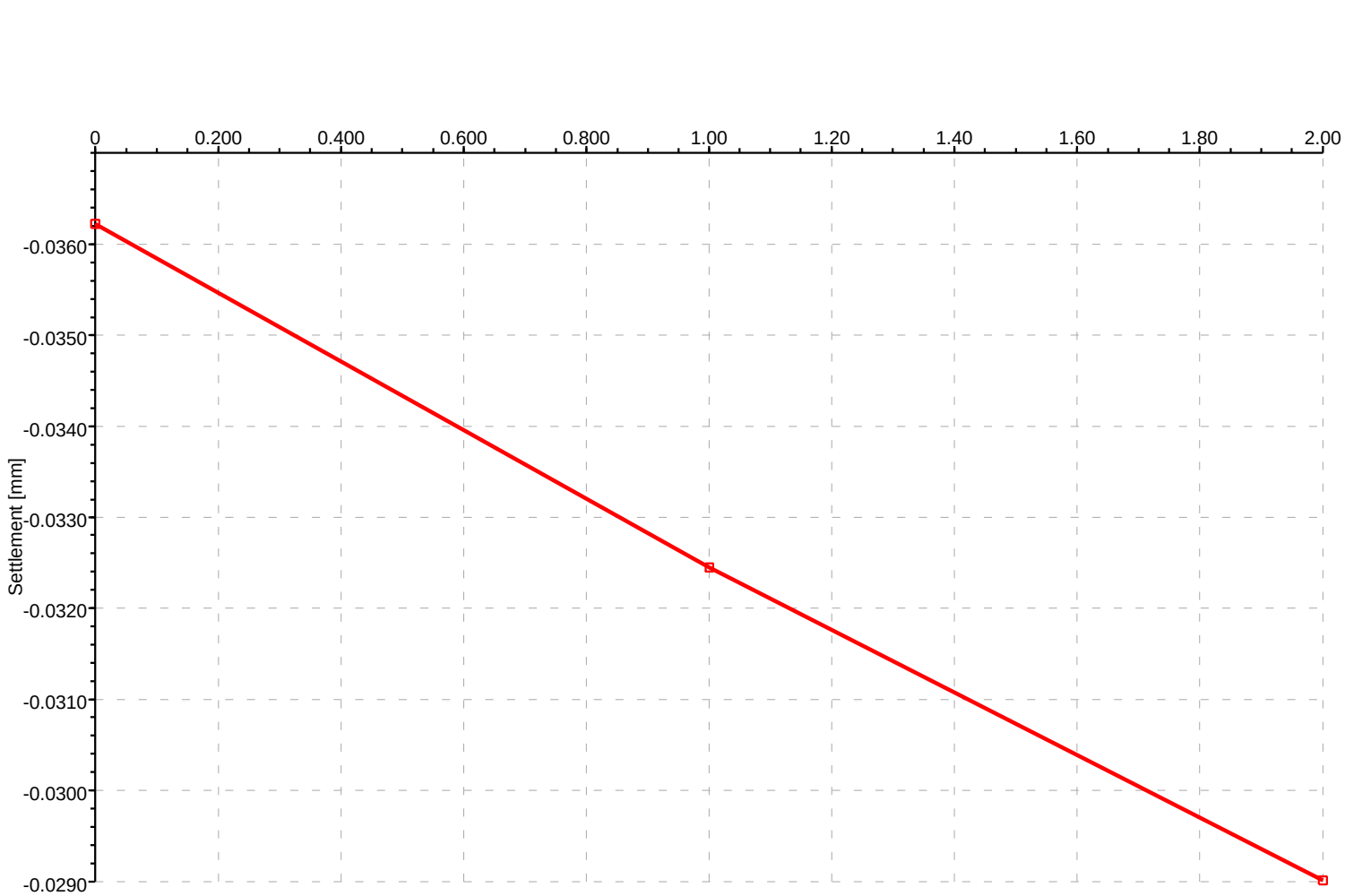
Distance from (21.2,18.4) in m



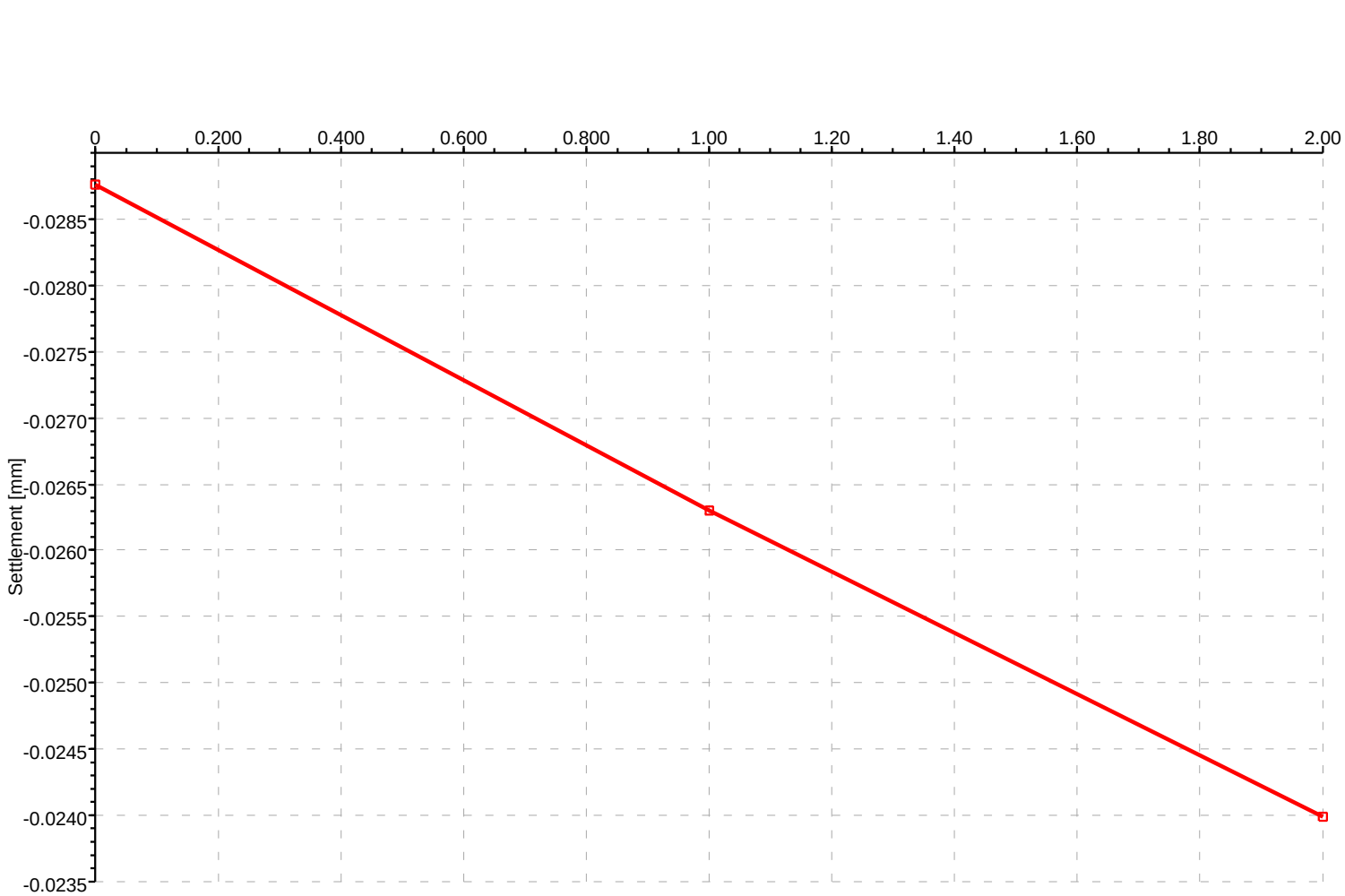
Displacement for 27OGS - Line1



Displacement for 27OGS - Line 2



Displacement for 27OGS - Line 3



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25 Old Gloucester Street, London, WC1N 3AF

Overall Term Movements

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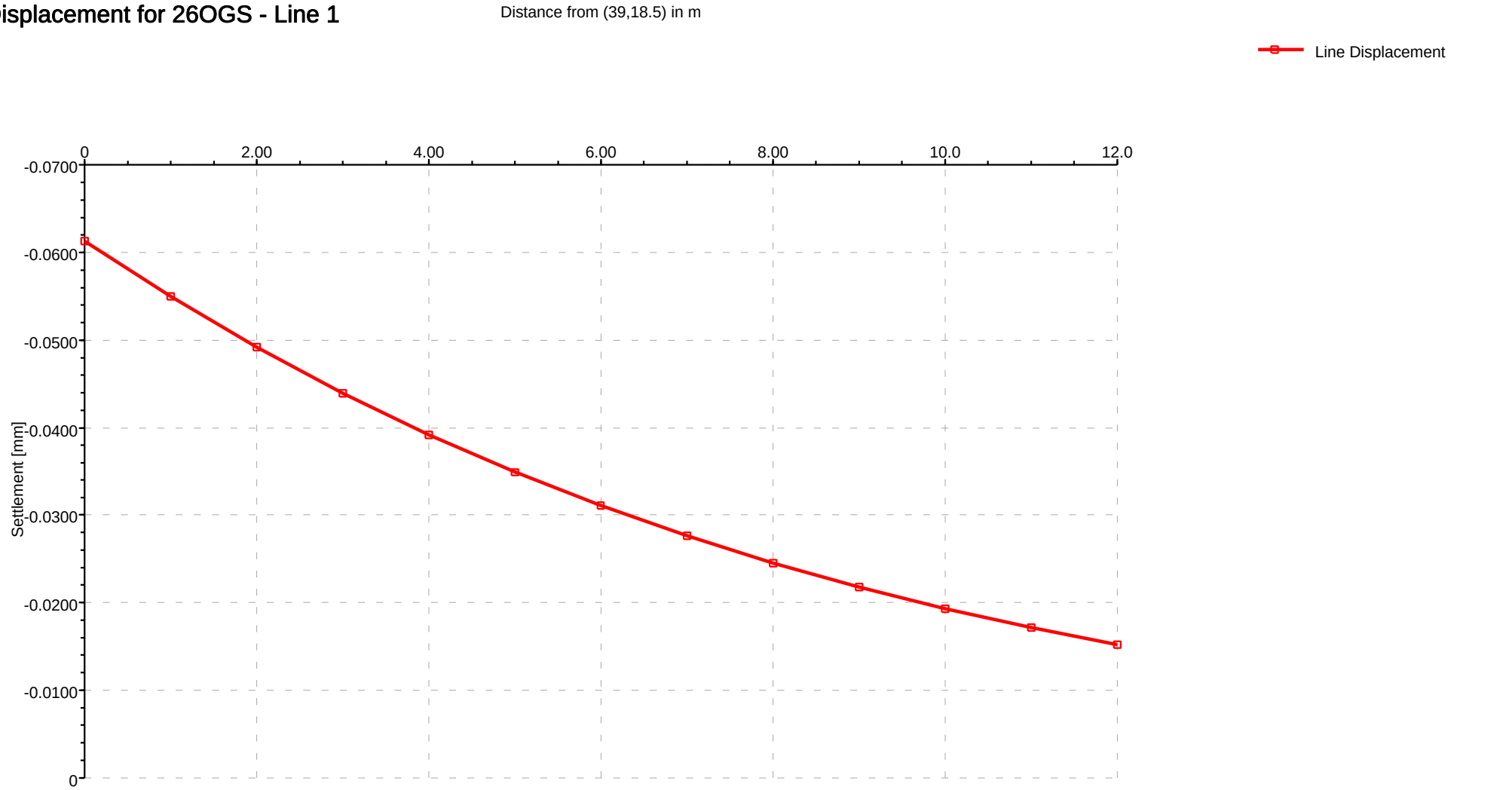
AT		

Displacement for 26OGS - Line 1

Distance from (39,18.5) in m



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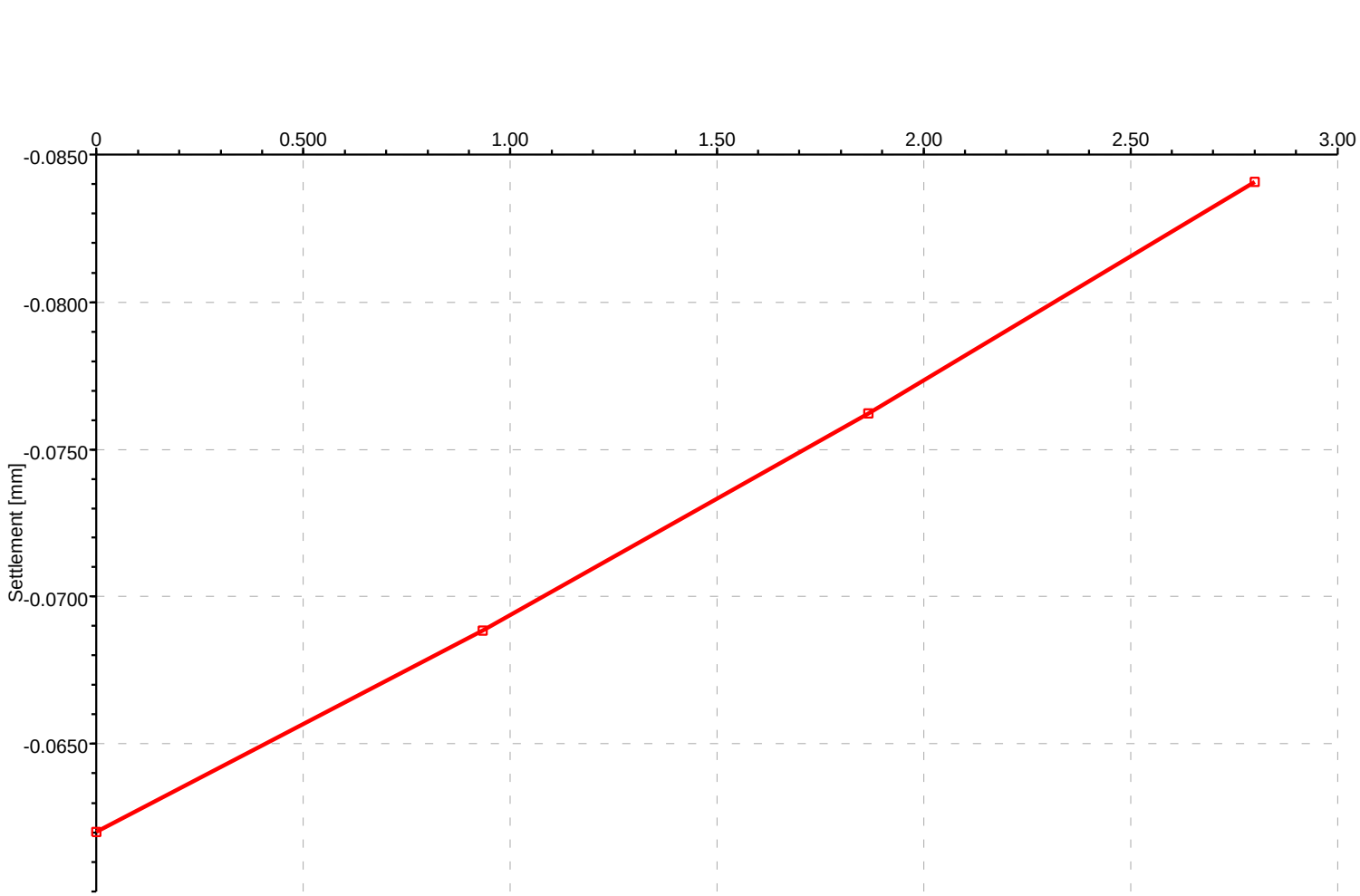
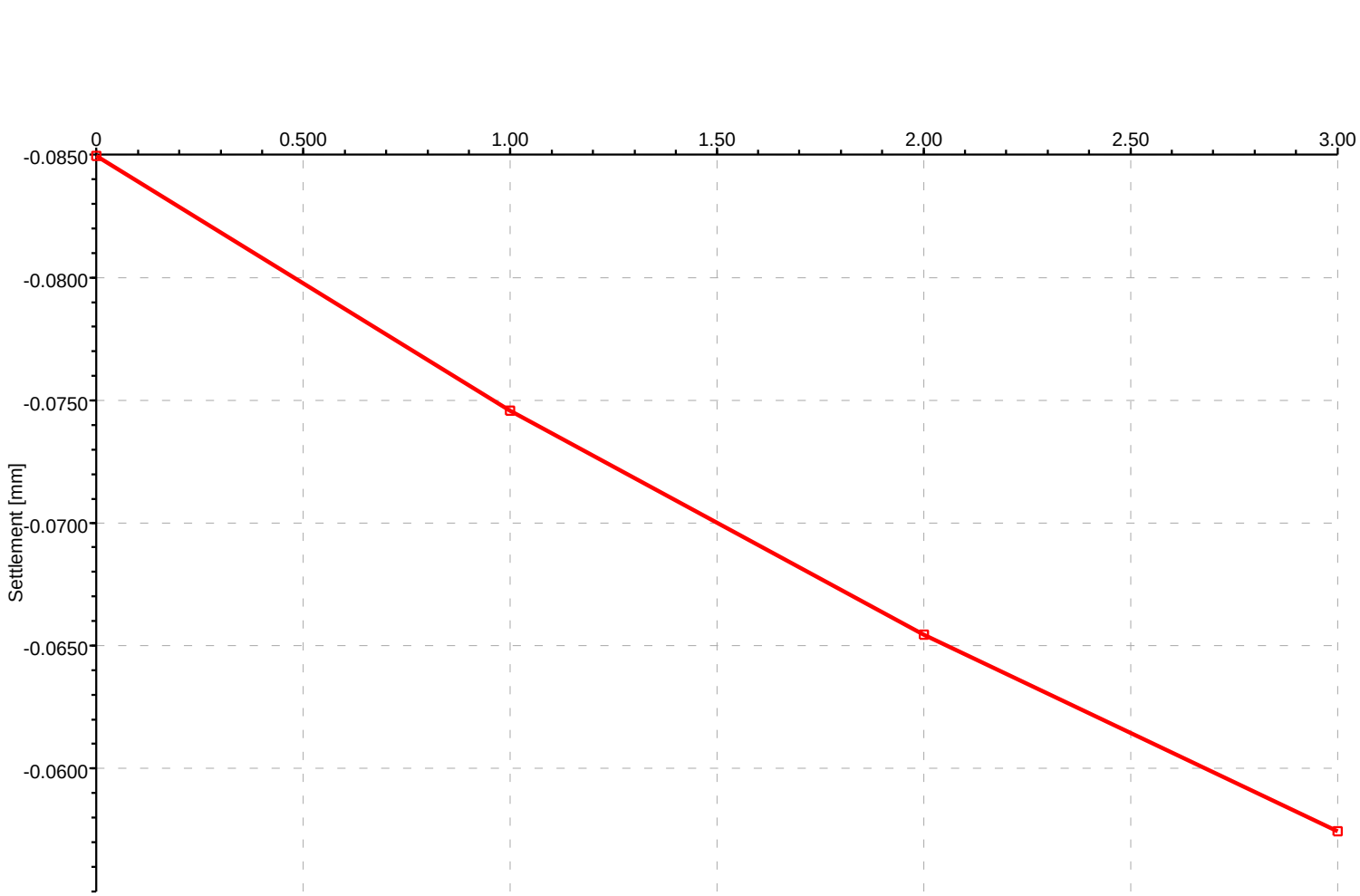
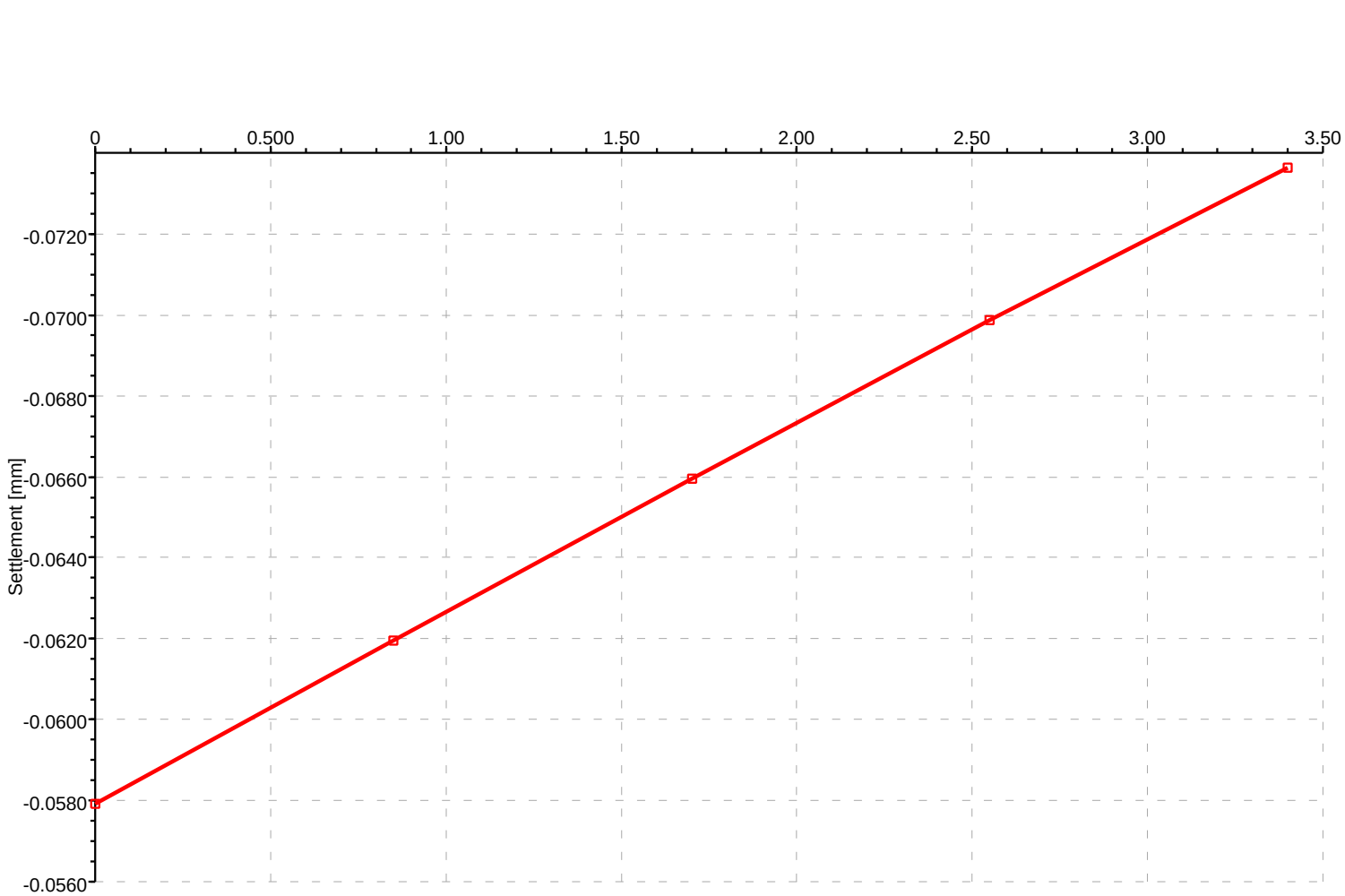


Displacement for 26OGS - Line 3



Displacement for 26OGS - Line 4



Job No.	Sheet No.	Rev.
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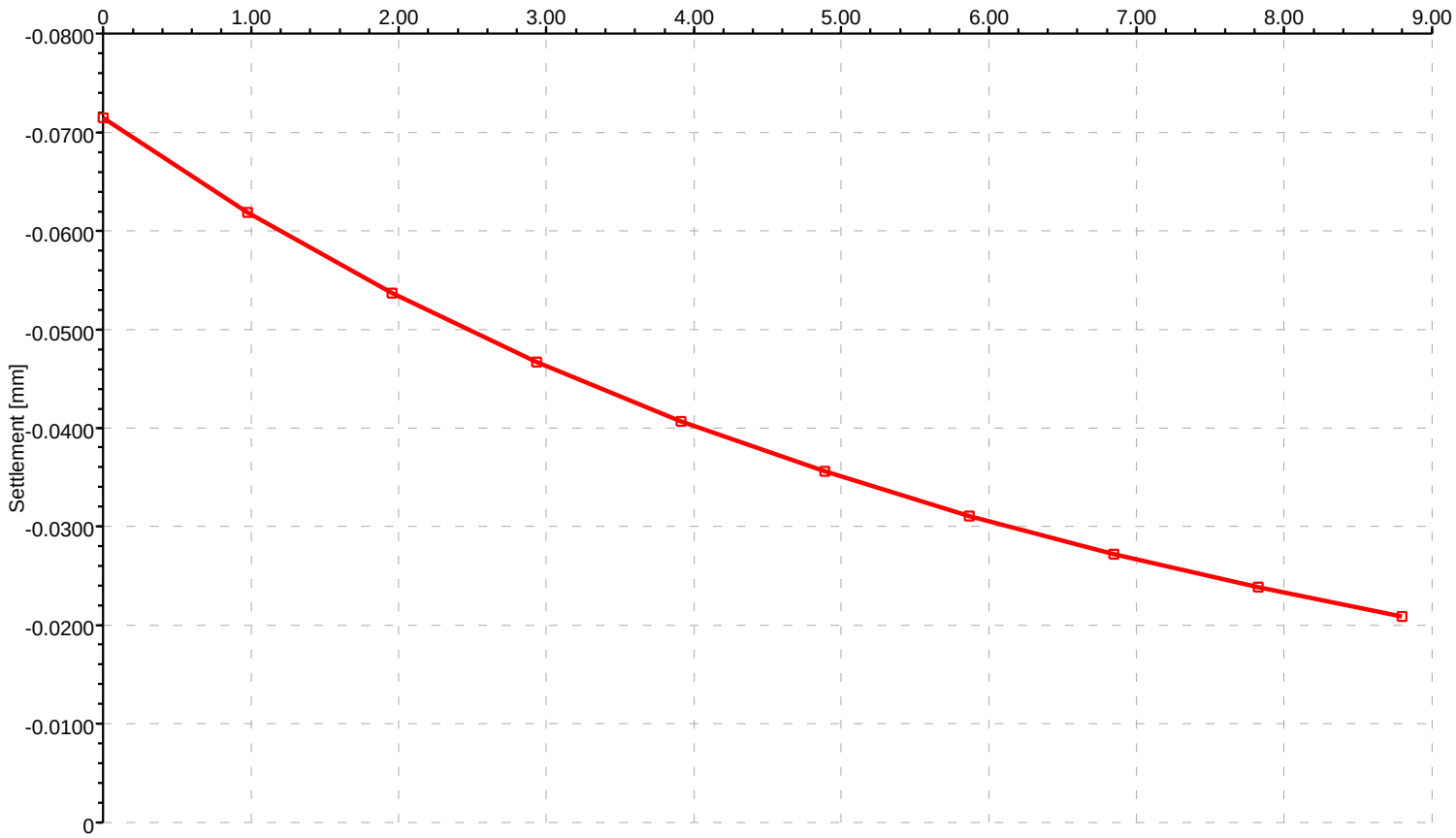
Drg. Ref.		
Made by AT	Date	Checked

Displacement for 26OGS - Line 5

Distance from (42.2,25) in m



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25 Old Gloucester Street, London, WC1N 3AF
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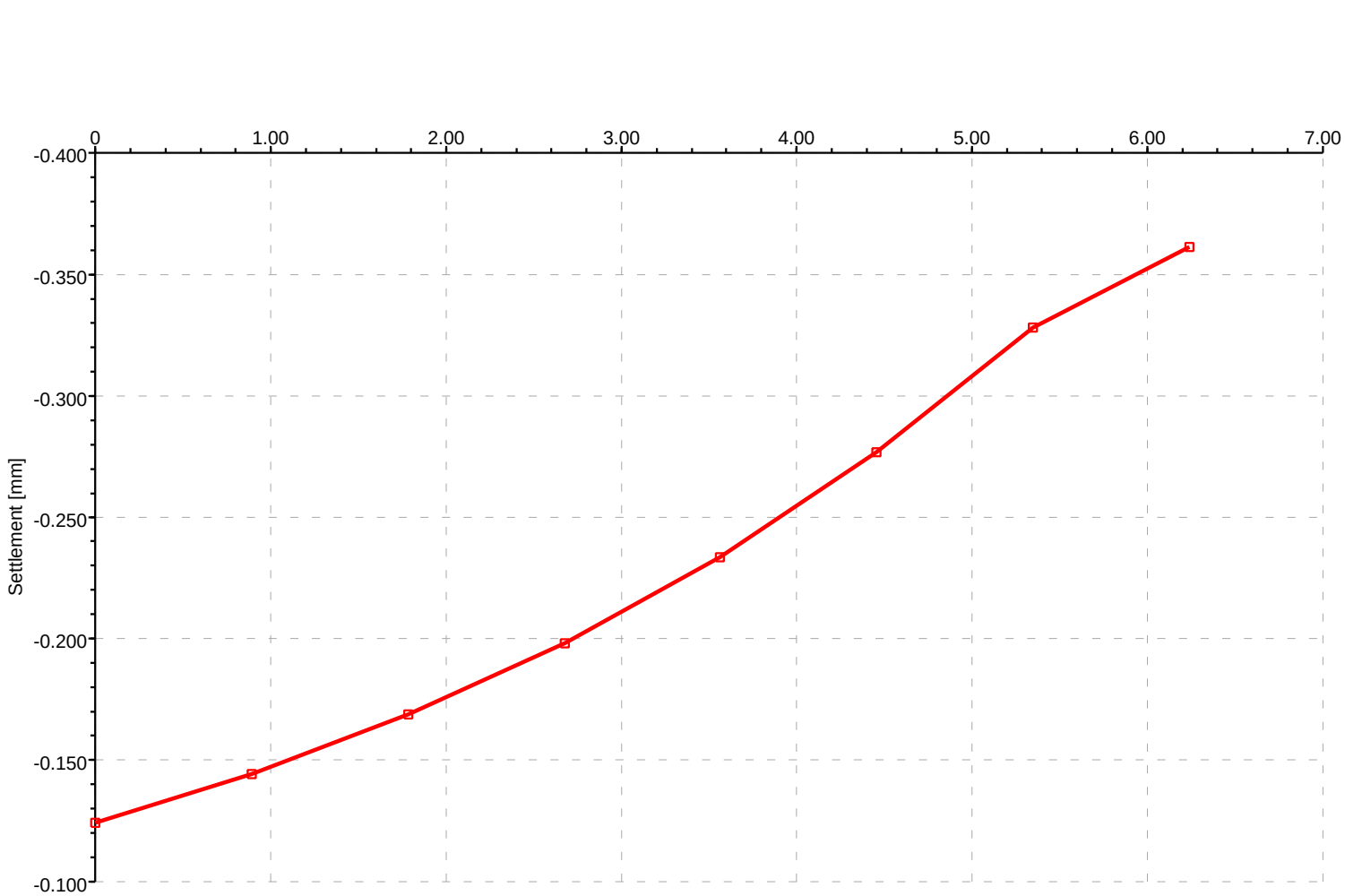
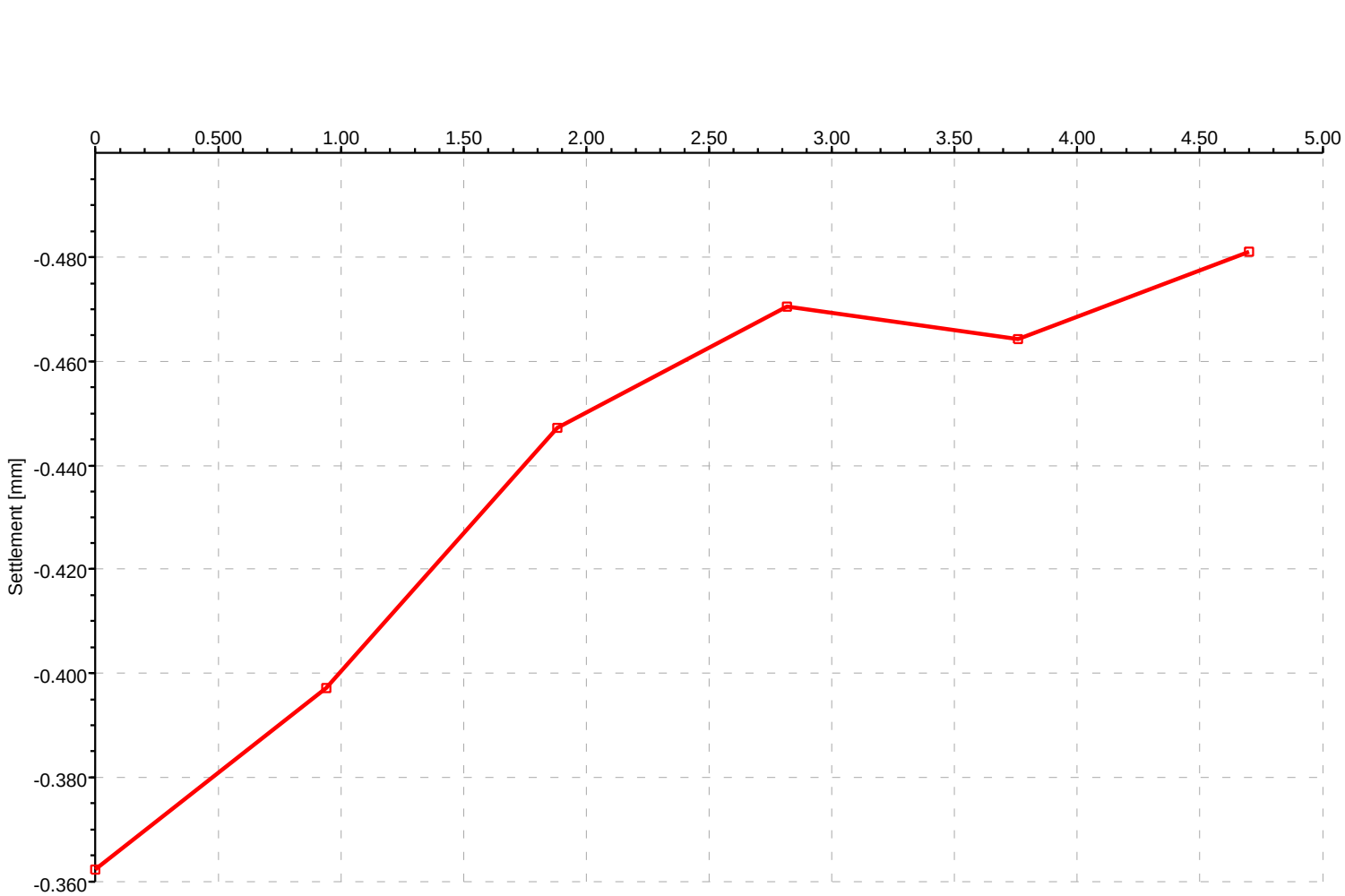
Job No.	Sheet No.	Rev.
J17059		
Drg. Ref.		
Made by AT	Date	Checked

Displacement for 26OGS - Line 6

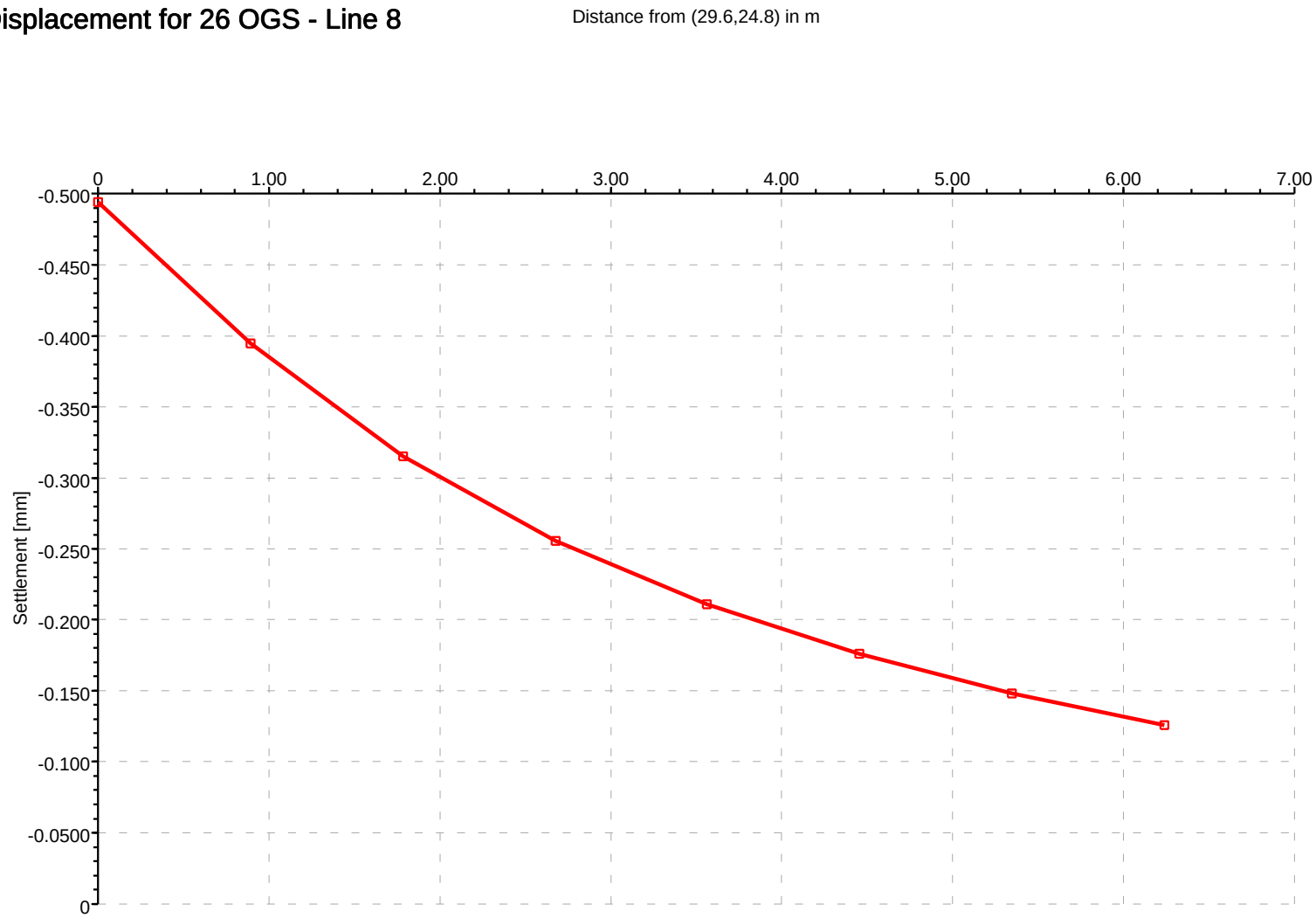


Displacement for 26OGS - Line 7

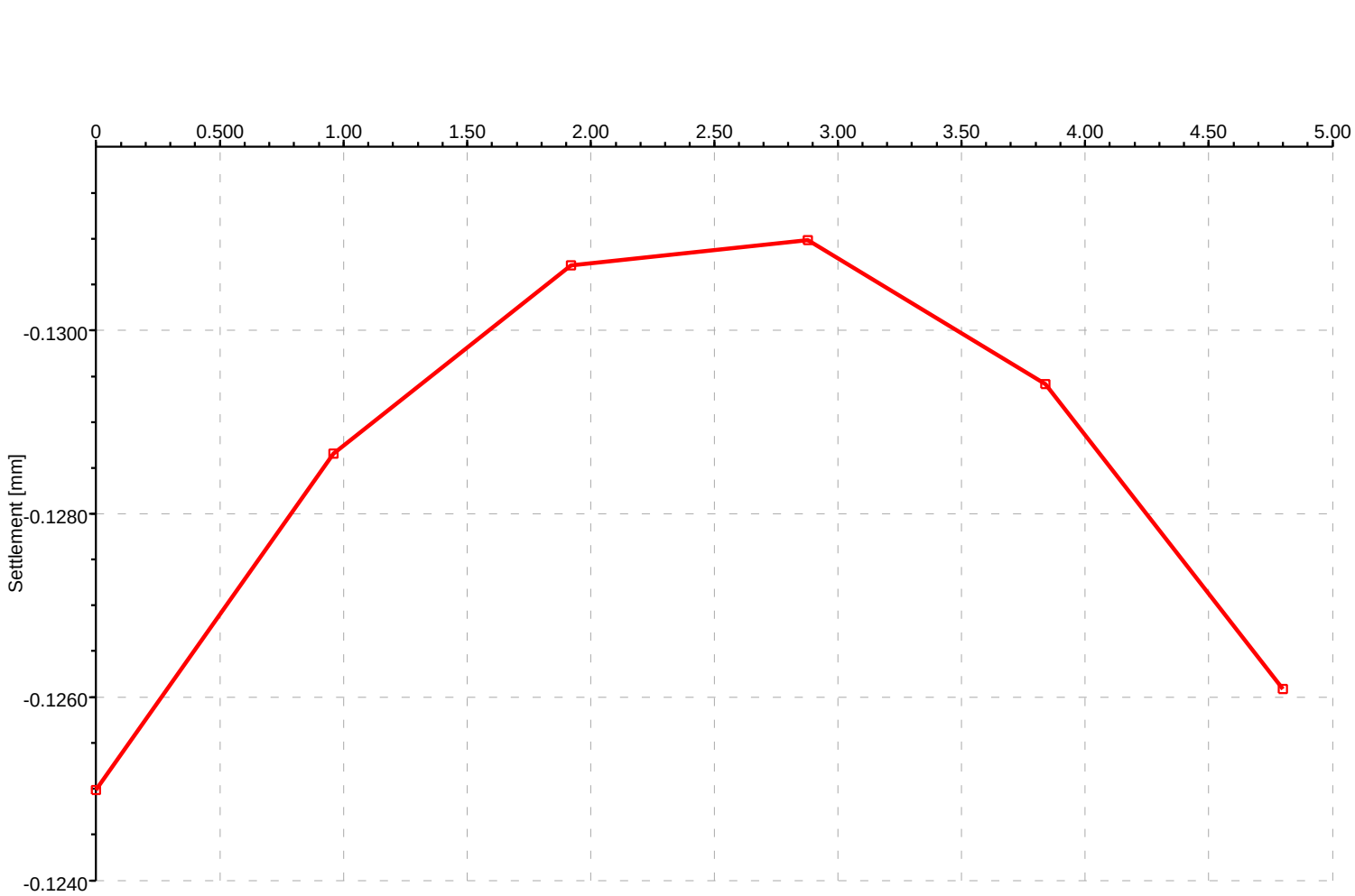


Displacement for 26 OGS - Line 8

Distance from (29.6,24.8) in m



Displacement for 26OGS - Line 9



Ground Movement Assessment Summary

Project Number	J17059
Revision	AT
Wall Reference	STGMC 1

Input parameters:

Wall Length, L =	11.0	m
Wall Height, H =	21.0	m
Proposed basement depth =	0.50	m
L / H =	0.52	

Vertical Displacement Behind Wall Prediction:

Differential total heave = Predicted from P-Disp	0.01	mm
Total settlement =	0.00	mm

No settlement due to wall deflection as the retaining walls will be sufficiently braced preventing movement

Change in vertical movement, Δ = 0.01 **mm**

Horizontal Displacement Behind Wall Prediction:

Change in horizontal movement, δ_h = 0.00 **mm**

Predicted from CIRIA C580 (Fig 2.11a) assuming excavation in front of a wall in stiff clay and based on 2 mm horizontal movement at wall on the basis of a 1 m excavation below the existing foundations

Building Damage Category = **CATEGORY 0 - NEGLIGIBLE**

Ground Movement Assessment Summary

Project Number	J17059
Revision	AT
Wall Reference	SGTMC 2

Input parameters:

Wall Length, L =	11.0	m
Wall Height, H =	21.0	m
Proposed basement depth =	3.00	m
L / H =	0.52	

Vertical Displacement Behind Wall Prediction:

Differential total heave = Predicted from P-Disp	0.04	mm
Total settlement =	0.00	mm

No settlement due to wall deflection as the retaining walls will be sufficiently braced preventing movement

Change in vertical movement, Δ = 0.04 **mm**

Horizontal Displacement Behind Wall Prediction:

Change in horizontal movement, δ_h = 0.00 **mm**

Predicted from CIRIA C580 (Fig 2.11a) assuming excavation in front of a wall in stiff clay and based on 2 mm horizontal movement at wall on the basis of a 1 m excavation below the existing foundations

Building Damage Category = **CATEGORY 0 - NEGLIGIBLE**

Ground Movement Assessment Summary

Project Number	J17059
Revision	AT
Wall Reference	SGTMC 3

Input parameters:

Wall Length, L =	11.0	m
Wall Height, H =	21.0	m
Proposed basement depth =	3.00	m
L / H =	0.52	

Vertical Displacement Behind Wall Prediction:

Differential total heave = Predicted from P-Disp	0.03	mm
Total settlement =	0.00	mm

No settlement due to wall deflection as the retaining walls will be sufficiently braced preventing movement

Change in vertical movement, Δ = 0.03 **mm**

Horizontal Displacement Behind Wall Prediction:

Change in horizontal movement, δ_h = 0.00 **mm**

Predicted from CIRIA C580 (Fig 2.11a) assuming excavation in front of a wall in stiff clay and based on 2 mm horizontal movement at wall on the basis of a 1 m excavation below the existing foundations

Building Damage Category = **CATEGORY 0 - NEGLIGIBLE**

ONLY INPUT DETAILS ON THIS PAGE

Ground Movement Assessment Summary

Geotechnical & Environmental Associates

Project Number	J17059
Revision	AT
Wall Reference	STGMC 4

Input parameters:

Wall Length, L =	4.0	m
Wall Height, H =	14.0	m
Proposed basement depth =	3.00	m
L / H =	0.29	

Vertical Displacement Behind Wall Prediction:

Differential total heave = Predicted from P-Disp	0.32	mm
Total settlement =	0.00	mm

No settlement due to wall deflection as the retaining walls will be sufficiently braced preventing movement

Change in vertical movement, Δ = 0.32 **mm**

Horizontal Displacement Behind Wall Prediction:

Change in horizontal movement, δ_h = 0.90 **mm**

Predicted from CIRIA C580 (Fig 2.11a) assuming excavation in front of a wall in stiff clay and based on 2 mm horizontal movement at wall on the basis of a 1 m excavation below the existing foundations

Building Damage Category = **CATEGORY 1 - VERY SLIGHT**

Ground Movement Assessment Summary

Project Number	J17059
Revision	AT
Wall Reference	SGTMC 5

Input parameters:

Wall Length, L =	4.0	m
Wall Height, H =	14.0	m
Proposed basement depth =	3.00	m
L / H =	0.29	

Vertical Displacement Behind Wall Prediction:

Differential total heave = Predicted from P-Disp	0.09	mm
Total settlement =	0.00	mm

No settlement due to wall deflection as the retaining walls will be sufficiently braced preventing movement

Change in vertical movement, Δ = 0.09 **mm**

Horizontal Displacement Behind Wall Prediction:

Change in horizontal movement, δ_h = 1.60 **mm**

Predicted from CIRIA C580 (Fig 2.11a) assuming excavation in front of a wall in stiff clay and based on 2 mm horizontal movement at wall on the basis of a 1 m excavation below the existing foundations

Building Damage Category = **CATEGORY 1 - VERY SLIGHT**

Ground Movement Assessment Summary

Project Number	J17059
Revision	AT
Wall Reference	SGTMC 6

Input parameters:

Wall Length, L =	2.5	m
Wall Height, H =	14.0	m
Proposed basement depth =	3.00	m
L / H =	0.18	

Vertical Displacement Behind Wall Prediction:

Differential total heave = Predicted from P-Disp	0.01	mm
Total settlement =	0.00	mm

No settlement due to wall deflection as the retaining walls will be sufficiently braced preventing movement

Change in vertical movement, Δ = 0.01 **mm**

Horizontal Displacement Behind Wall Prediction:

Change in horizontal movement, δ_h = 1.00 **mm**

Predicted from CIRIA C580 (Fig 2.11a) assuming excavation in front of a wall in stiff clay and based on 2 mm horizontal movement at wall on the basis of a 1 m excavation below the existing foundations

Building Damage Category = **CATEGORY 0 - NEGLIGIBLE**

Ground Movement Assessment Summary

Project Number	J17059
Revision	AT
Wall Reference	SGTMC 7

Input parameters:

Wall Length, L =	4.0	m
Wall Height, H =	14.0	m
Proposed basement depth =	3.00	m
L / H =	0.29	

Vertical Displacement Behind Wall Prediction:

Differential total heave = Predicted from P-Disp	0.09	mm
Total settlement =	0.00	mm

No settlement due to wall deflection as the retaining walls will be sufficiently braced preventing movement

Change in vertical movement, Δ = 0.09 **mm**

Horizontal Displacement Behind Wall Prediction:

Change in horizontal movement, δ_h = 0.40 **mm**

Predicted from CIRIA C580 (Fig 2.11a) assuming excavation in front of a wall in stiff clay and based on 2 mm horizontal movement at wall on the basis of a 1 m excavation below the existing foundations

Building Damage Category = **CATEGORY 0 - NEGLIGIBLE**

Ground Movement Assessment Summary

Project Number	J17059
Revision	AT
Wall Reference	SGTMC 8

Input parameters:

Wall Length, L =	1.5	m
Wall Height, H =	14.0	m
Proposed basement depth =	3.00	m
L / H =	0.11	

Vertical Displacement Behind Wall Prediction:

Differential total heave = Predicted from P-Disp	0.00	mm
Total settlement =		mm

No settlement due to wall deflection as the retaining walls will be sufficiently braced preventing movement

Change in vertical movement, Δ = 0.00 **mm**

Horizontal Displacement Behind Wall Prediction:

Change in horizontal movement, δ_h = 0.00 **mm**

Predicted from CIRIA C580 (Fig 2.11a) assuming excavation in front of a wall in stiff clay and based on 2 mm horizontal movement at wall on the basis of a 1 m excavation below the existing foundations

Building Damage Category = **CATEGORY 0 - NEGLIGIBLE**

Ground Movement Assessment Summary

Project Number	J17059
Revision	AT
Wall Reference	SGTMC 9

Input parameters:

Wall Length, L =	27.0	m
Wall Height, H =	14.0	m
Proposed basement depth =	3.00	m
L / H =	1.93	

Vertical Displacement Behind Wall Prediction:

Differential total heave = Predicted from P-Disp	0.08	mm
Total settlement =	0.00	mm

No settlement due to wall deflection as the retaining walls will be sufficiently braced preventing movement

Change in vertical movement, Δ = 0.08 **mm**

Horizontal Displacement Behind Wall Prediction:

Change in horizontal movement, δ_h = 0.00 **mm**

Predicted from CIRIA C580 (Fig 2.11a) assuming excavation in front of a wall in stiff clay and based on 2 mm horizontal movement at wall on the basis of a 1 m excavation below the existing foundations

Building Damage Category = **CATEGORY 0 - NEGLIGIBLE**

Ground Movement Assessment Summary

Project Number	J17059
Revision	AT
Wall Reference	SGTMC 10

Input parameters:

Wall Length, L =	20.0	m
Wall Height, H =	14.0	m
Proposed basement depth =	3.00	m
L / H =	1.43	

Vertical Displacement Behind Wall Prediction:

Differential total heave = Predicted from P-Disp	0.05	mm
Total settlement =	0.00	mm

No settlement due to wall deflection as the retaining walls will be sufficiently braced preventing movement

Change in vertical movement, Δ = 0.05 **mm**

Horizontal Displacement Behind Wall Prediction:

Change in horizontal movement, δ_h = 0.00 **mm**

Predicted from CIRIA C580 (Fig 2.11a) assuming excavation in front of a wall in stiff clay and based on 2 mm horizontal movement at wall on the basis of a 1 m excavation below the existing foundations

Building Damage Category = **CATEGORY 0 - NEGLIGIBLE**

Ground Movement Assessment Summary

Project Number	J17059
Revision	AT
Wall Reference	RSQM 1

Input parameters:

Wall Length, L =	18.0	m
Wall Height, H =	20.5	m
Proposed basement depth =	3.00	m
L / H =	0.88	

Vertical Displacement Behind Wall Prediction:

Differential total heave = Predicted from P-Disp	0.01	mm
Total settlement =	0.00	mm

No settlement due to wall deflection as the retaining walls will be sufficiently braced preventing movement

Change in vertical movement, Δ = 0.01 **mm**

Horizontal Displacement Behind Wall Prediction:

Change in horizontal movement, δ_h = 0.00 **mm**

Predicted from CIRIA C580 (Fig 2.11a) assuming excavation in front of a wall in stiff clay and based on 2 mm horizontal movement at wall on the basis of a 1 m excavation below the existing foundations

Building Damage Category = **CATEGORY 0 - NEGLIGIBLE**

Ground Movement Assessment Summary

Project Number	J17059
Revision	AT
Wall Reference	RSQM 2

Input parameters:

Wall Length, L =	8.0	m
Wall Height, H =	20.5	m
Proposed basement depth =	3.00	m
L / H =	0.39	

Vertical Displacement Behind Wall Prediction:

Differential total heave = Predicted from P-Disp	0.01	mm
Total settlement =	0.00	mm

No settlement due to wall deflection as the retaining walls will be sufficiently braced preventing movement

Change in vertical movement, Δ = 0.01 **mm**

Horizontal Displacement Behind Wall Prediction:

Change in horizontal movement, δ_h = 0.00 **mm**

Predicted from CIRIA C580 (Fig 2.11a) assuming excavation in front of a wall in stiff clay and based on 2 mm horizontal movement at wall on the basis of a 1 m excavation below the existing foundations

Building Damage Category = **CATEGORY 0 - NEGLIGIBLE**

Ground Movement Assessment Summary

Project Number	J17059
Revision	AT
Wall Reference	RSQM 3

Input parameters:

Wall Length, L =	18.0	m
Wall Height, H =	20.5	m
Proposed basement depth =	3.00	m
L / H =	0.88	

Vertical Displacement Behind Wall Prediction:

Differential total heave = Predicted from P-Disp	0.02	mm
Total settlement =	0.00	mm

No settlement due to wall deflection as the retaining walls will be sufficiently braced preventing movement

Change in vertical movement, Δ = 0.02 **mm**

Horizontal Displacement Behind Wall Prediction:

Change in horizontal movement, δ_h = 0.00 **mm**

Predicted from CIRIA C580 (Fig 2.11a) assuming excavation in front of a wall in stiff clay and based on 2 mm horizontal movement at wall on the basis of a 1 m excavation below the existing foundations

Building Damage Category = **CATEGORY 0 - NEGLIGIBLE**

Ground Movement Assessment Summary

Project Number	J17059
Revision	AT
Wall Reference	114-118SR 1

Input parameters:

Wall Length, L =	13.0	m
Wall Height, H =	7.5	m
Proposed basement depth =	3.00	m
L / H =	1.73	

Vertical Displacement Behind Wall Prediction:

Differential total heave = Predicted from P-Disp	0.02	mm
Total settlement =	0.00	mm

No settlement due to wall deflection as the retaining walls will be sufficiently braced preventing movement

Change in vertical movement, Δ = 0.02 **mm**

Horizontal Displacement Behind Wall Prediction:

Change in horizontal movement, δ_h = 0.00 **mm**

Predicted from CIRIA C580 (Fig 2.11a) assuming excavation in front of a wall in stiff clay and based on 2 mm horizontal movement at wall on the basis of a 1 m excavation below the existing foundations

Building Damage Category = **CATEGORY 0 - NEGLIGIBLE**

Ground Movement Assessment Summary

Project Number	J17059
Revision	AT
Wall Reference	114-118SR 2

Input parameters:

Wall Length, L =	18.0	m
Wall Height, H =	7.5	m
Proposed basement depth =	2.00	m
L / H =	2.40	

Vertical Displacement Behind Wall Prediction:

Differential total heave = Predicted from P-Disp	0.48	mm
Total settlement =	0.00	mm

No settlement due to wall deflection as the retaining walls will be sufficiently braced preventing movement

Change in vertical movement, Δ = 0.48 **mm**

Horizontal Displacement Behind Wall Prediction:

Change in horizontal movement, δ_h = 1.50 **mm**

Predicted from CIRIA C580 (Fig 2.11a) assuming excavation in front of a wall in stiff clay and based on 2 mm horizontal movement at wall on the basis of a 1 m excavation below the existing foundations

Building Damage Category = **CATEGORY 0 - NEGLIGIBLE**

Ground Movement Assessment Summary

Project Number	J17059
Revision	AT
Wall Reference	114-118SR 3

Input parameters:

Wall Length, L =	13.0	m
Wall Height, H =	7.5	m
Proposed basement depth =	3.00	m
L / H =	1.73	

Vertical Displacement Behind Wall Prediction:

Differential total heave = Predicted from P-Disp	0.03	mm
Total settlement =	0.00	mm

No settlement due to wall deflection as the retaining walls will be sufficiently braced preventing movement

Change in vertical movement, Δ = 0.03 **mm**

Horizontal Displacement Behind Wall Prediction:

Change in horizontal movement, δ_h = 0.00 **mm**

Predicted from CIRIA C580 (Fig 2.11a) assuming excavation in front of a wall in stiff clay and based on 2 mm horizontal movement at wall on the basis of a 1 m excavation below the existing foundations

Building Damage Category = **CATEGORY 0 - NEGLIGIBLE**

Ground Movement Assessment Summary

Project Number	J17059
Revision	AT
Wall Reference	MH 1

Input parameters:

Wall Length, L =	8.0	m
Wall Height, H =	7.0	m
Proposed basement depth =	3.00	m
L / H =	1.14	

Vertical Displacement Behind Wall Prediction:

Differential total heave = Predicted from P-Disp	0.02	mm
Total settlement =	0.00	mm

No settlement due to wall deflection as the retaining walls will be sufficiently braced preventing movement

Change in vertical movement, Δ = 0.02 **mm**

Horizontal Displacement Behind Wall Prediction:

Change in horizontal movement, δ_h = 0.00 **mm**

Predicted from CIRIA C580 (Fig 2.11a) assuming excavation in front of a wall in stiff clay and based on 2 mm horizontal movement at wall on the basis of a 1 m excavation below the existing foundations

Building Damage Category = **CATEGORY 0 - NEGLIGIBLE**

Ground Movement Assessment Summary

Project Number	J17059
Revision	AT
Wall Reference	MH 2

Input parameters:

Wall Length, L =	14.0	m
Wall Height, H =	7.0	m
Proposed basement depth =	3.00	m
L / H =	2.00	

Vertical Displacement Behind Wall Prediction:

Differential total heave = Predicted from P-Disp	0.02	mm
Total settlement =	0.00	mm

No settlement due to wall deflection as the retaining walls will be sufficiently braced preventing movement

Change in vertical movement, Δ = 0.02 **mm**

Horizontal Displacement Behind Wall Prediction:

Change in horizontal movement, δ_h = 0.00 **mm**

Predicted from CIRIA C580 (Fig 2.11a) assuming excavation in front of a wall in stiff clay and based on 2 mm horizontal movement at wall on the basis of a 1 m excavation below the existing foundations

Building Damage Category = **CATEGORY 0 - NEGLIGIBLE**

Ground Movement Assessment Summary

Project Number	J17059
Revision	AT
Wall Reference	MH 3

Input parameters:

Wall Length, L =	8.0	m
Wall Height, H =	7.0	m
Proposed basement depth =	3.00	m
L / H =	1.14	

Vertical Displacement Behind Wall Prediction:

Differential total heave = Predicted from P-Disp	0.00	mm
Total settlement =	0.00	mm

No settlement due to wall deflection as the retaining walls will be sufficiently braced preventing movement

Change in vertical movement, Δ = 0.00 **mm**

Horizontal Displacement Behind Wall Prediction:

Change in horizontal movement, δ_h = 0.00 **mm**

Predicted from CIRIA C580 (Fig 2.11a) assuming excavation in front of a wall in stiff clay and based on 2 mm horizontal movement at wall on the basis of a 1 m excavation below the existing foundations

Building Damage Category = **CATEGORY 0 - NEGLIGIBLE**

Ground Movement Assessment Summary

Project Number	J17059
Revision	AT
Wall Reference	OM 1

Input parameters:

Wall Length, L =	21.0	m
Wall Height, H =	20.5	m
Proposed basement depth =	3.00	m
L / H =	1.02	

Vertical Displacement Behind Wall Prediction:

Differential total heave = Predicted from P-Disp	0.02	mm
Total settlement =	0.00	mm

No settlement due to wall deflection as the retaining walls will be sufficiently braced preventing movement

Change in vertical movement, Δ = 0.02 **mm**

Horizontal Displacement Behind Wall Prediction:

Change in horizontal movement, δ_h = 0.00 **mm**

Predicted from CIRIA C580 (Fig 2.11a) assuming excavation in front of a wall in stiff clay and based on 2 mm horizontal movement at wall on the basis of a 1 m excavation below the existing foundations

Building Damage Category = **CATEGORY 0 - NEGLIGIBLE**

Ground Movement Assessment Summary

Project Number	J17059
Revision	AT
Wall Reference	OM 2

Input parameters:

Wall Length, L =	19.0	m
Wall Height, H =	20.5	m
Proposed basement depth =	3.00	m
L / H =	0.93	

Vertical Displacement Behind Wall Prediction:

Differential total heave = Predicted from P-Disp	0.03	mm
Total settlement =	0.00	mm

No settlement due to wall deflection as the retaining walls will be sufficiently braced preventing movement

Change in vertical movement, Δ = 0.03 **mm**

Horizontal Displacement Behind Wall Prediction:

Change in horizontal movement, δ_h = 0.00 **mm**

Predicted from CIRIA C580 (Fig 2.11a) assuming excavation in front of a wall in stiff clay and based on 2 mm horizontal movement at wall on the basis of a 1 m excavation below the existing foundations

Building Damage Category = **CATEGORY 0 - NEGLIGIBLE**

Ground Movement Assessment Summary

Project Number	J17059
Revision	AT
Wall Reference	27OGS 1

Input parameters:

Wall Length, L =	2.0	m
Wall Height, H =	24.0	m
Proposed basement depth =	3.00	m
L / H =	0.08	

Vertical Displacement Behind Wall Prediction:

Differential total heave = Predicted from P-Disp	0.00	mm
Total settlement =	0.00	mm

No settlement due to wall deflection as the retaining walls will be sufficiently braced preventing movement

Change in vertical movement, Δ = 0.00 **mm**

Horizontal Displacement Behind Wall Prediction:

Change in horizontal movement, δ_h = 0.00 **mm**

Predicted from CIRIA C580 (Fig 2.11a) assuming excavation in front of a wall in stiff clay and based on 2 mm horizontal movement at wall on the basis of a 1 m excavation below the existing foundations

Building Damage Category = **CATEGORY 0 - NEGLIGIBLE**

Ground Movement Assessment Summary

Project Number	J17059
Revision	AT
Wall Reference	27OGS 2

Input parameters:

Wall Length, L =	2.0	m
Wall Height, H =	24.0	m
Proposed basement depth =	3.00	m
L / H =	0.08	

Vertical Displacement Behind Wall Prediction:

Differential total heave = Predicted from P-Disp	0.00	mm
Total settlement =	0.00	mm

No settlement due to wall deflection as the retaining walls will be sufficiently braced preventing movement

Change in vertical movement, Δ = 0.00 **mm**

Horizontal Displacement Behind Wall Prediction:

Change in horizontal movement, δ_h = 0.00 **mm**

Predicted from CIRIA C580 (Fig 2.11a) assuming excavation in front of a wall in stiff clay and based on 2 mm horizontal movement at wall on the basis of a 1 m excavation below the existing foundations

Building Damage Category = **CATEGORY 0 - NEGLIGIBLE**

Ground Movement Assessment Summary

Project Number	J17059
Revision	AT
Wall Reference	27OGS 3

Input parameters:

Wall Length, L =	2.0	m
Wall Height, H =	24.0	m
Proposed basement depth =	0.50	m
L / H =	0.08	

Vertical Displacement Behind Wall Prediction:

Differential total heave = Predicted from P-Disp	0.00	mm
Total settlement =	0.00	mm

No settlement due to wall deflection as the retaining walls will be sufficiently braced preventing movement

Change in vertical movement, Δ = 0.00 **mm**

Horizontal Displacement Behind Wall Prediction:

Change in horizontal movement, δ_h = 0.00 **mm**

Predicted from CIRIA C580 (Fig 2.11a) assuming excavation in front of a wall in stiff clay and based on 2 mm horizontal movement at wall on the basis of a 1 m excavation below the existing foundations

Building Damage Category = **CATEGORY 0 - NEGLIGIBLE**

Ground Movement Assessment Summary

Project Number	J17059
Revision	AT
Wall Reference	26OGS 1

Input parameters:

Wall Length, L =	12.0	m
Wall Height, H =	20.5	m
Proposed basement depth =	3.00	m
L / H =	0.59	

Vertical Displacement Behind Wall Prediction:

Differential total heave = Predicted from P-Disp	0.01	mm
Total settlement =	0.00	mm

No settlement due to wall deflection as the retaining walls will be sufficiently braced preventing movement

Change in vertical movement, Δ = 0.01 **mm**

Horizontal Displacement Behind Wall Prediction:

Change in horizontal movement, δ_h = 0.00 **mm**

Predicted from CIRIA C580 (Fig 2.11a) assuming excavation in front of a wall in stiff clay and based on 2 mm horizontal movement at wall on the basis of a 1 m excavation below the existing foundations

Building Damage Category = **CATEGORY 0 - NEGLIGIBLE**

Ground Movement Assessment Summary

Project Number	J17059
Revision	AT
Wall Reference	26OGS 2

Input parameters:

Wall Length, L =	3.0	m
Wall Height, H =	20.5	m
Proposed basement depth =	3.00	m
L / H =	0.15	

Vertical Displacement Behind Wall Prediction:

Differential total heave = Predicted from P-Disp	0.00	mm
Total settlement =	0.00	mm

No settlement due to wall deflection as the retaining walls will be sufficiently braced preventing movement

Change in vertical movement, Δ = 0.00 **mm**

Horizontal Displacement Behind Wall Prediction:

Change in horizontal movement, δ_h = 0.00 **mm**

Predicted from CIRIA C580 (Fig 2.11a) assuming excavation in front of a wall in stiff clay and based on 2 mm horizontal movement at wall on the basis of a 1 m excavation below the existing foundations

Building Damage Category = **CATEGORY 0 - NEGLIGIBLE**

Ground Movement Assessment Summary

Project Number	J17059
Revision	AT
Wall Reference	26OGS 3

Input parameters:

Wall Length, L =	3.0	m
Wall Height, H =	20.5	m
Proposed basement depth =	3.00	m
L / H =	0.15	

Vertical Displacement Behind Wall Prediction:

Differential total heave = Predicted from P-Disp	0.00	mm
Total settlement =	0.00	mm

No settlement due to wall deflection as the retaining walls will be sufficiently braced preventing movement

Change in vertical movement, Δ = 0.00 **mm**

Horizontal Displacement Behind Wall Prediction:

Change in horizontal movement, δ_h = 0.00 **mm**

Predicted from CIRIA C580 (Fig 2.11a) assuming excavation in front of a wall in stiff clay and based on 2 mm horizontal movement at wall on the basis of a 1 m excavation below the existing foundations

Building Damage Category = **CATEGORY 0 - NEGLIGIBLE**

Ground Movement Assessment Summary

Project Number	J17059
Revision	AT
Wall Reference	26OGS 4

Input parameters:

Wall Length, L =	3.5	m
Wall Height, H =	20.5	m
Proposed basement depth =	3.00	m
L / H =	0.17	

Vertical Displacement Behind Wall Prediction:

Differential total heave = Predicted from P-Disp	0.00	mm
Total settlement =	0.00	mm

No settlement due to wall deflection as the retaining walls will be sufficiently braced preventing movement

Change in vertical movement, Δ = 0.00 **mm**

Horizontal Displacement Behind Wall Prediction:

Change in horizontal movement, δ_h = 0.00 **mm**

Predicted from CIRIA C580 (Fig 2.11a) assuming excavation in front of a wall in stiff clay and based on 2 mm horizontal movement at wall on the basis of a 1 m excavation below the existing foundations

Building Damage Category = **CATEGORY 0 - NEGLIGIBLE**

Ground Movement Assessment Summary

Project Number	J17059
Revision	AT
Wall Reference	26OGS 5

Input parameters:

Wall Length, L =	9.0	m
Wall Height, H =	20.5	m
Proposed basement depth =	3.00	m
L / H =	0.44	

Vertical Displacement Behind Wall Prediction:

Differential total heave = Predicted from P-Disp	0.01	mm
Total settlement =	0.00	mm

No settlement due to wall deflection as the retaining walls will be sufficiently braced preventing movement

Change in vertical movement, Δ = 0.01 **mm**

Horizontal Displacement Behind Wall Prediction:

Change in horizontal movement, δ_h = 0.00 **mm**

Predicted from CIRIA C580 (Fig 2.11a) assuming excavation in front of a wall in stiff clay and based on 2 mm horizontal movement at wall on the basis of a 1 m excavation below the existing foundations

Building Damage Category = **CATEGORY 0 - NEGLIGIBLE**

Ground Movement Assessment Summary

Project Number	J17059
Revision	AT
Wall Reference	26OGS 6

Input parameters:

Wall Length, L =	6.0	m
Wall Height, H =	7.0	m
Proposed basement depth =	3.00	m
L / H =	0.86	

Vertical Displacement Behind Wall Prediction:

Differential total heave = Predicted from P-Disp	0.03	mm
Total settlement =	0.00	mm

No settlement due to wall deflection as the retaining walls will be sufficiently braced preventing movement

Change in vertical movement, Δ = 0.03 **mm**

Horizontal Displacement Behind Wall Prediction:

Change in horizontal movement, δ_h = 0.70 **mm**

Predicted from CIRIA C580 (Fig 2.11a) assuming excavation in front of a wall in stiff clay and based on 2 mm horizontal movement at wall on the basis of a 1 m excavation below the existing foundations

Building Damage Category = **CATEGORY 0 - NEGLIGIBLE**

Ground Movement Assessment Summary

Project Number	J17059
Revision	AT
Wall Reference	26OGS 7

Input parameters:

Wall Length, L =	5.0	m
Wall Height, H =	7.0	m
Proposed basement depth =	3.00	m
L / H =	0.71	

Vertical Displacement Behind Wall Prediction:

Differential total heave = Predicted from P-Disp	0.04	mm
Total settlement =		mm

No settlement due to wall deflection as the retaining walls will be sufficiently braced preventing movement

Change in vertical movement, Δ = 0.04 **mm**

Horizontal Displacement Behind Wall Prediction:

Change in horizontal movement, δ_h = 0.80 **mm**

Predicted from CIRIA C580 (Fig 2.11a) assuming excavation in front of a wall in stiff clay and based on 2 mm horizontal movement at wall on the basis of a 1 m excavation below the existing foundations

Building Damage Category = **CATEGORY 0 - NEGLIGIBLE**

Ground Movement Assessment Summary

Project Number	J17059
Revision	AT
Wall Reference	26OGS 9

Input parameters:

Wall Length, L =	5.0	m
Wall Height, H =	7.0	m
Proposed basement depth =	3.00	m
L / H =	0.71	

Vertical Displacement Behind Wall Prediction:

Differential total heave = Predicted from P-Disp	0.01	mm
Total settlement =	0.00	mm

No settlement due to wall deflection as the retaining walls will be sufficiently braced preventing movement

Change in vertical movement, Δ = 0.01 **mm**

Horizontal Displacement Behind Wall Prediction:

Change in horizontal movement, δ_h = 0.00 **mm**

Predicted from CIRIA C580 (Fig 2.11a) assuming excavation in front of a wall in stiff clay and based on 2 mm horizontal movement at wall on the basis of a 1 m excavation below the existing foundations

Building Damage Category = **CATEGORY 0 - NEGLIGIBLE**

Geotechnical & Environmental Associates (GEA)
is an engineer-led and client-focused independent specialist providing a complete range of geotechnical and contaminated land investigation, analytical and consultancy services to the property and construction industries.

We have offices at

Widbury Barn
Widbury Hill
Ware
Hertfordshire
SG12 7QE
tel 01727 824666
mail@gea-ltd.co.uk

Church Farm
Gotham Road
Kingston on Soar
Notts
NG11 0DE
tel 01509 674888
midlands@gea-ltd.co.uk

Enquiries can also be made on-line at

www.gea-ltd.co.uk

where information can be found on all of the services that we offer.

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