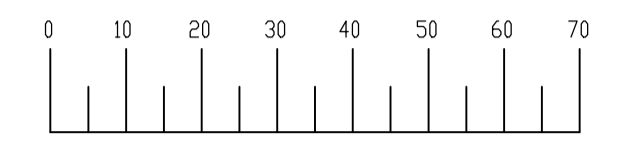




ETHEKWINI MUNICIPALITY  
ENGINEERING UNIT  
DRAINAGE AND COASTAL ENGINEERING DEPARTMENT

REDUCED PLAN USE SCALE BELOW



70mm DN ORIGINAL PLAN

LEGEND

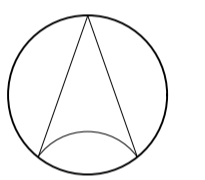
EXISTING UNDERGROUND SERVICES ARE AS SHOWN BELOW

- SEWERS AND MH'S
- STORM WATER DRAIN AND MH'S
- WATER MAINS AND VALVES
- ELECTRICITY CABLES
- G.P.D. TELEPHONE CABLES

Revision	Date	Description

NOTE: No construction work to commence until land and servitude acquisitions have been completed

Acquisitions completed: -



Date \_\_\_\_\_ Engineer \_\_\_\_\_

UNDERGROUND SERVICES CHECKED		
SERVICE	DATE	SIGNATURE
SW DRAINS		
SEWERS		
WATER MAINS		
G.P.D. CABLES		
ELECTRIC CABLES		
S.A.R. CABLES		
E.S.C. CABLES		
D.I.L. PIPE LINE		

NOTE: Only underground services affected by new construction work are shown. Care must be taken during excavations for road foundations, trenches etc. to avoid damage to underground services such as sewers, drains, cables, water mains and connections. Wherever possible these must be located before work proceeds.

Contract No. 1D-00000

Project Title: Heaton Nicholls Drive: Stormwater infrastructure upgrade with downstream protection works and reinstatement of the road, Ward 18

Drawing Title

Layout plan

SCALES 1:125 Date 30/01/2026

Designed Antony Leisa. Checked Antony Leisa.

Drawn Antony Leisa. Surveyed Isaac Mhlongo

Manager (Stormwater Eng): G. Willians

Deputy Head: R. Kasserchun

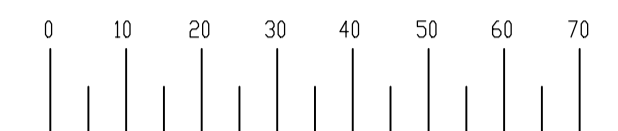
T. Zulu HEAD : ENGINEERING

Drawing No. 00000 Sheet 1 of 1 Rev.



ETHEKWINI MUNICIPALITY  
ENGINEERING UNIT  
DRAINAGE AND COASTAL ENGINEERING DEPARTMENT

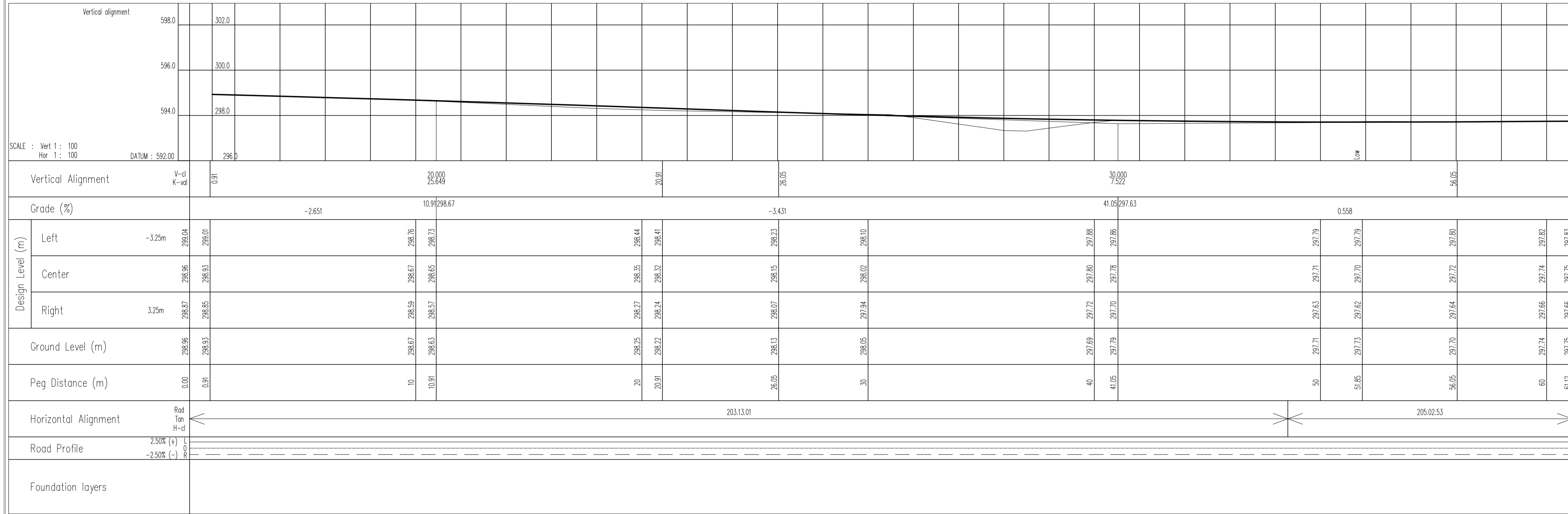
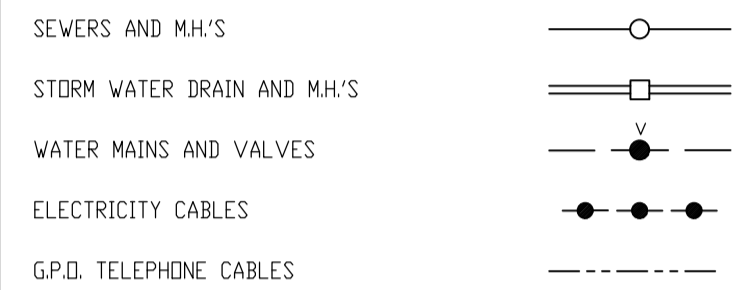
REDUCED PLAN USE SCALE BELOW



70mm DN ORIGINAL PLAN

LEGEND

EXISTING UNDERGROUND SERVICES ARE AS SHOWN BELOW



Revision Date Description

NOTE: No construction work to commence until land and servitude acquisitions have been completed.  
Acquisitions completed: -

Service	Date	Signature
SW DRAINS		
SEWERS		
WATER MAINS		
G.P.D. CABLES		
ELECTRIC CABLES		
S.A.R. CABLES		
E.S.C. CABLES		
D.L. PIPE LINE		

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Contract No. 1D-00000

Project Title:  
Heaton Nicholls Drive:  
Stormwater infrastructure upgrade with downstream protection works and reinstatement of the road, Ward 18

Drawing Title  
Long section

SCALES as shown Date 30/01/2026

Designed Antony Leisa. Checked Antony Leisa.

Drawn Antony Leisa. Surveyed Isaac Mhlongo

Manager (Stormwater Eng.): G. Willians

Deputy Head: R. Kasserchun

T. Zulu HEAD : ENGINEERING

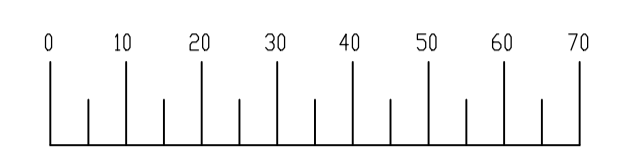
Drawing No. 00000 Sheet 1 of 1 Rev.

Peg dist.	Elev.	VERTICAL ALIGNMENT DATA				Grade(%)
		Bvc	Evc	CL		
0.004	298.956	0.004	0.004	0.00	-2.651	
10.906	298.667	0.906	20.906	20.00	-3.431	
41.046	297.633	26.046	56.046	30.00	0.558	
61.122	297.745	61.122	61.122	0.00		



ENGINEERING UNIT  
DRAINAGE AND COASTAL ENGINEERING DEPARTMENT

REDUCED PLAN USE SCALE BELOW



70mm DN ORIGINAL PLAN

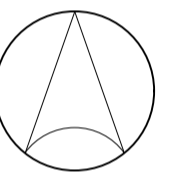
LEGEND

EXISTING UNDERGROUND SERVICES ARE AS SHOWN BELOW

- SEWERS AND MH'S
- STORM WATER DRAIN AND MH'S
- WATER MAINS AND VALVES
- ELECTRICITY CABLES
- G.P.D. TELEPHONE CABLES

Revision Date Description

NOTE: No construction work to commence until land and servitude acquisitions have been completed  
Acquisitions completed: -



Date Engineer

UNDERGROUND SERVICES CHECKED		
SERVICE	DATE	SIGNATURE
SW DRAINS		
SEWERS		
WATER MAINS		
G.P.D. CABLES		
ELECTRIC CABLES		
S.A.R. CABLES		
E.S.C. CABLES		
D.I.L. PIPE LINE		

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Contract No. 1D-00000

Project Title:  
Heaton Nicholls Drive:  
Stormwater infrastructure upgrade with downstream protection works and reinstatement of the road, Ward 18

Drawing Title

Cross sections

SCALES 1:100 Date 30/01/2026

Designed Antony Leisa. Checked Antony Leisa.

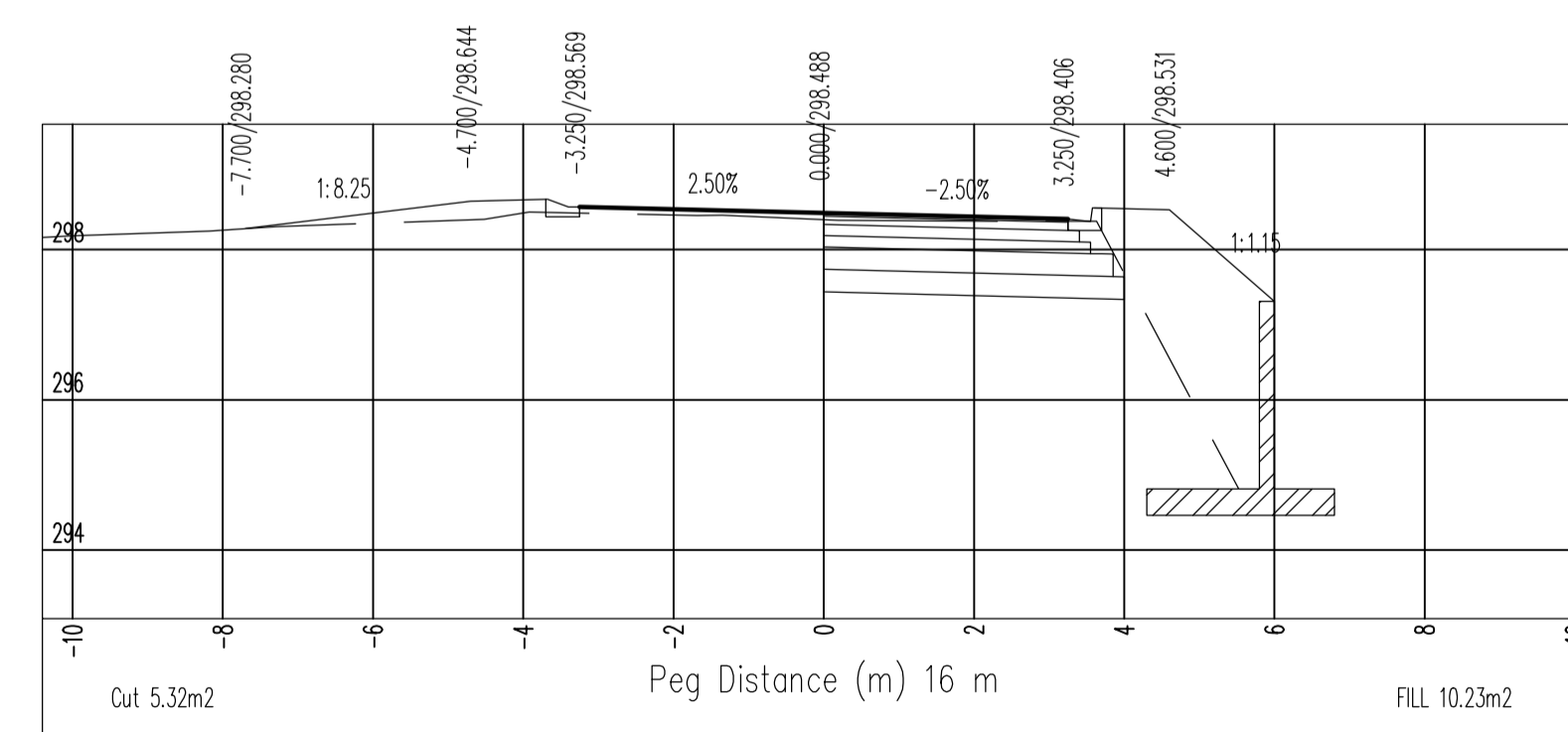
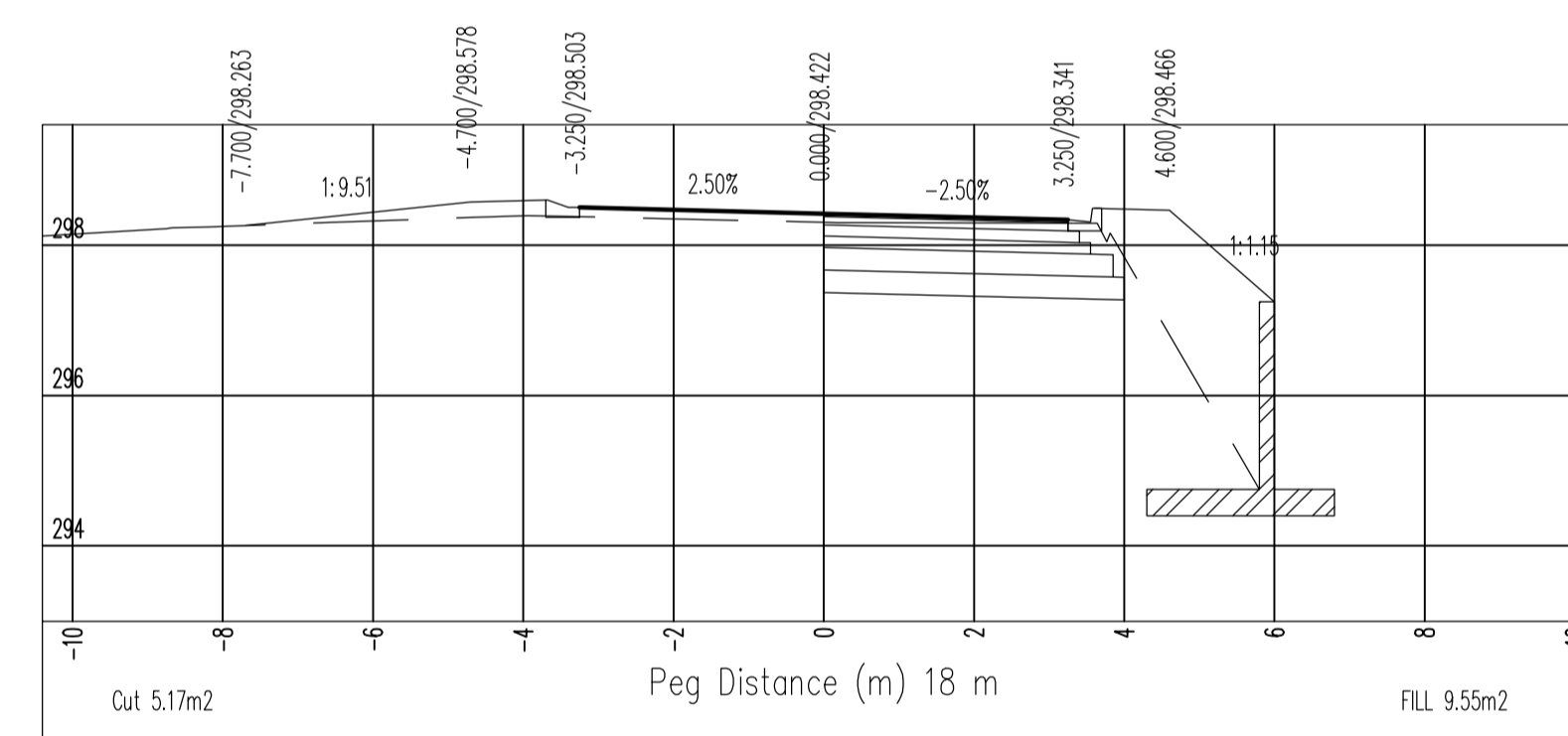
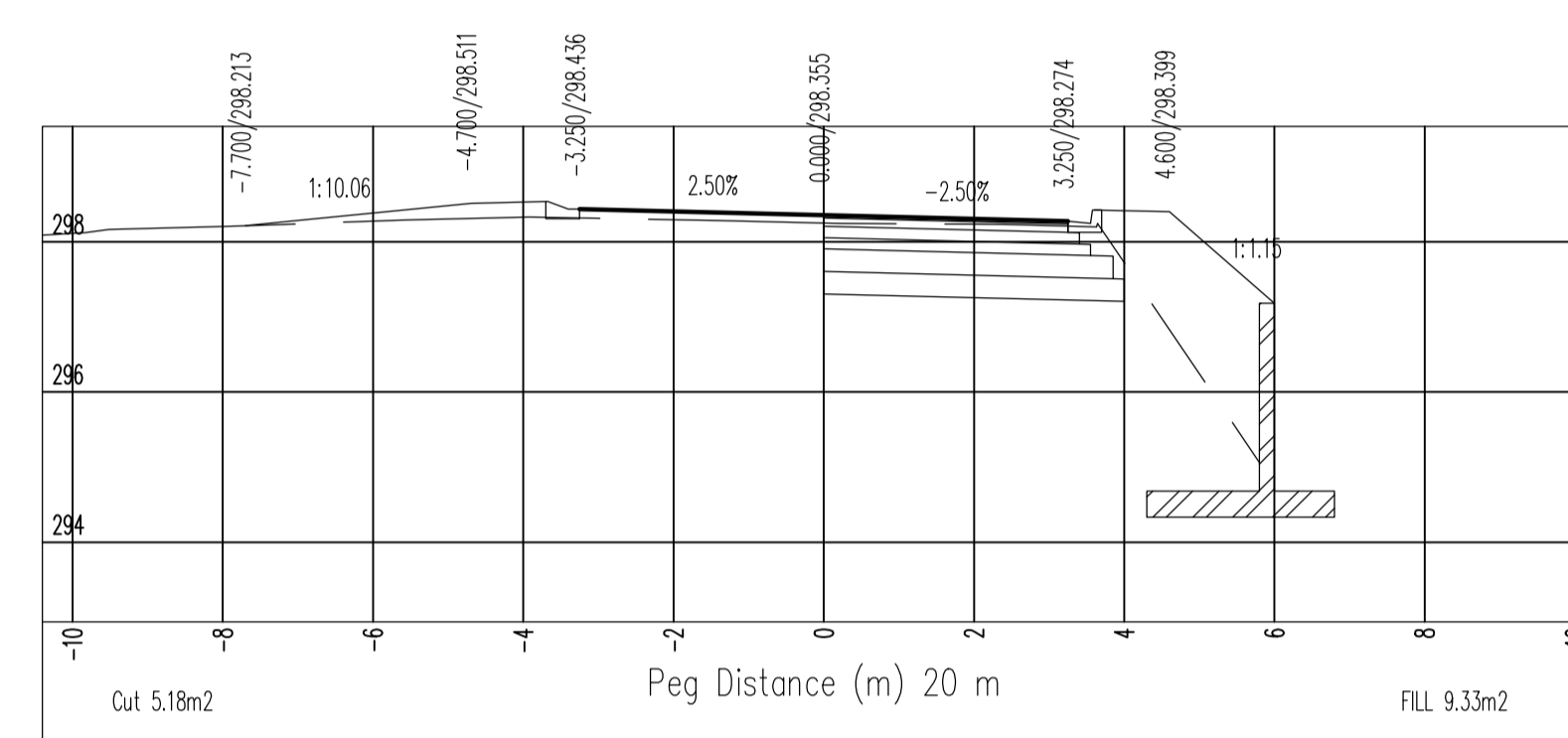
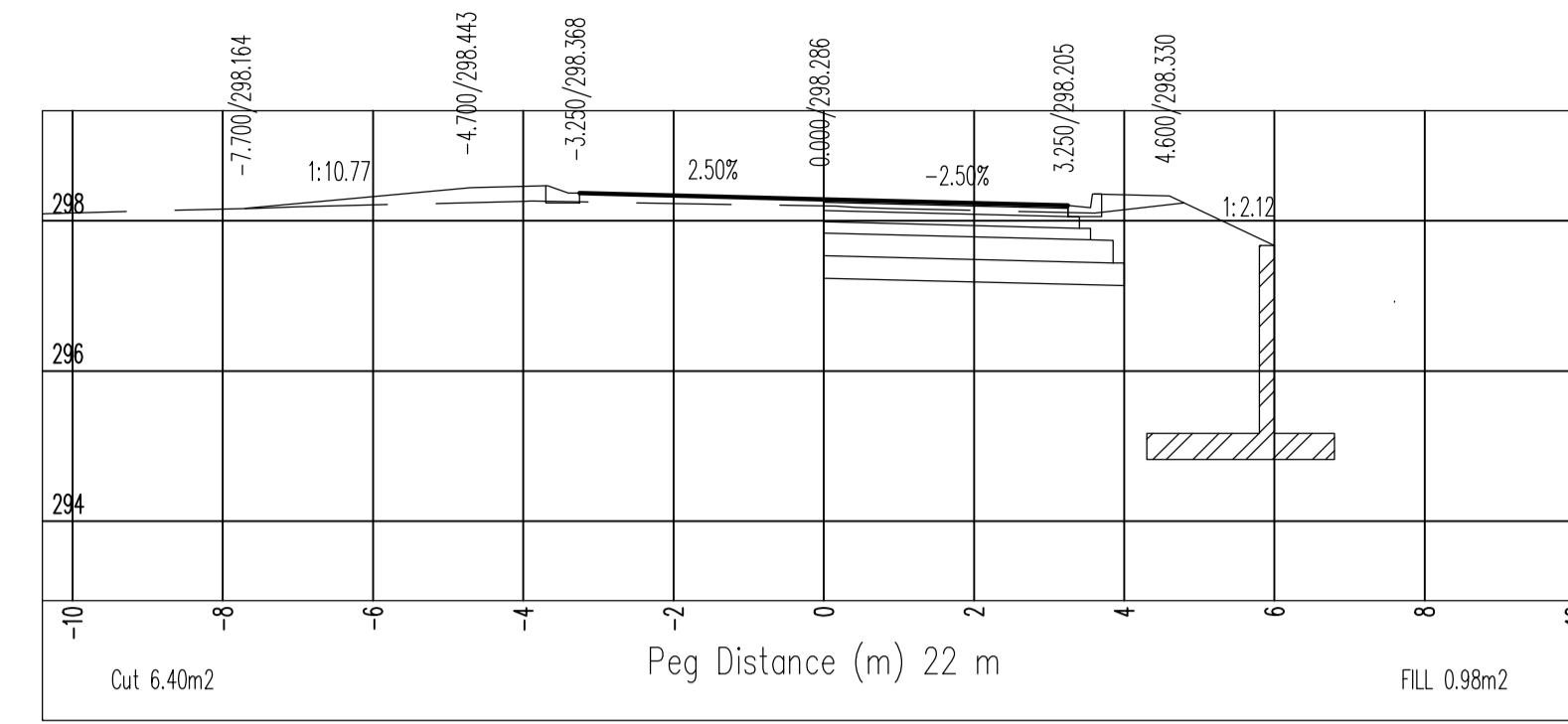
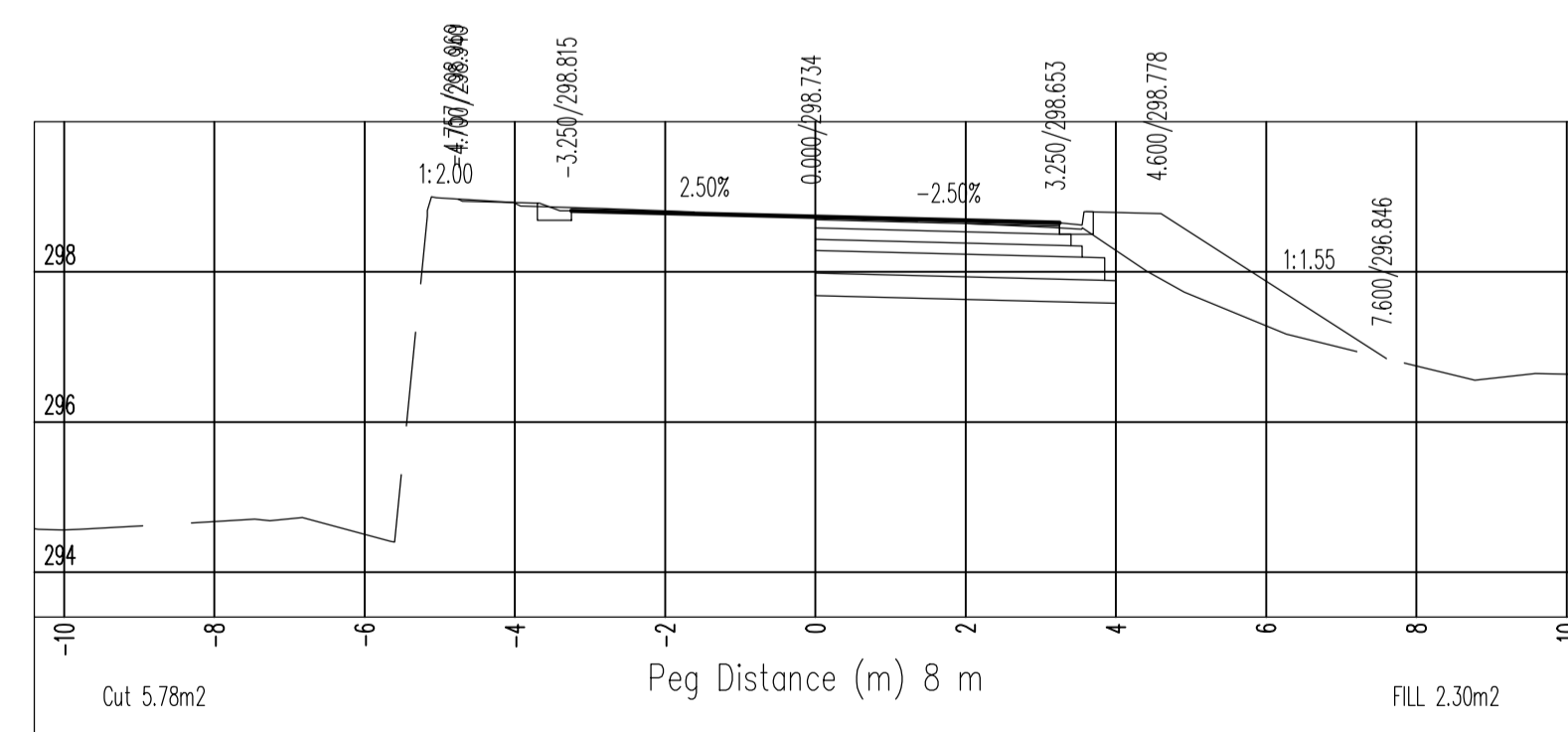
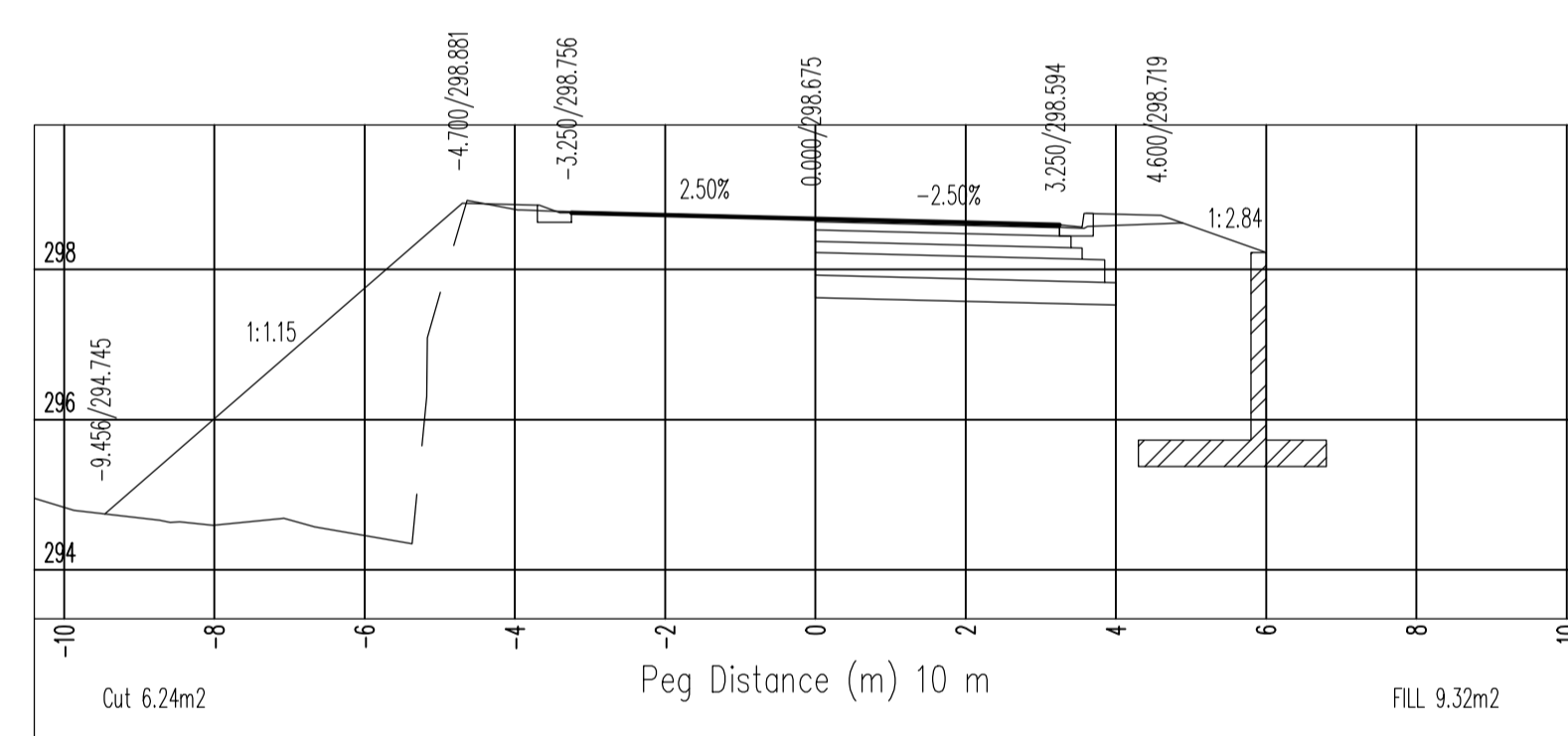
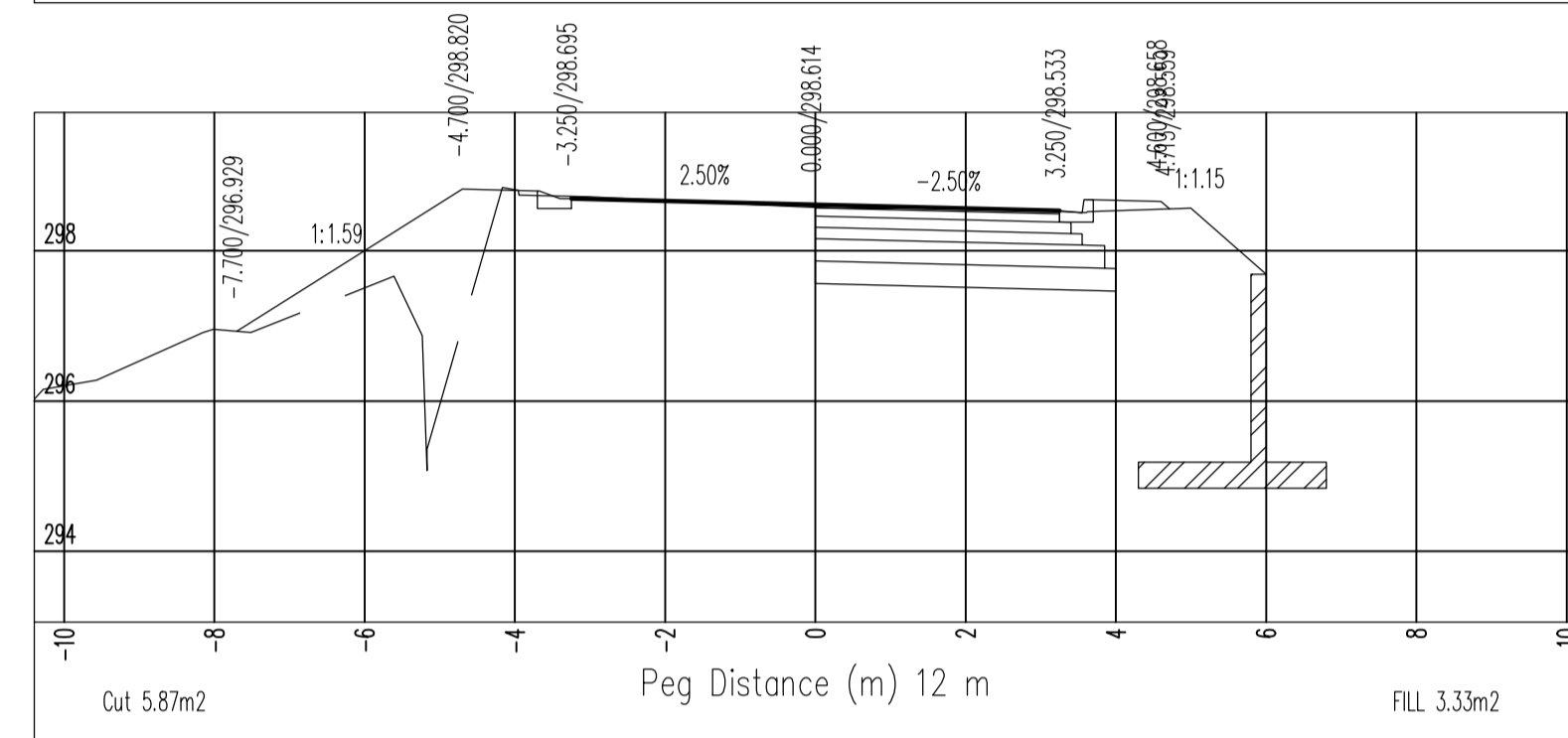
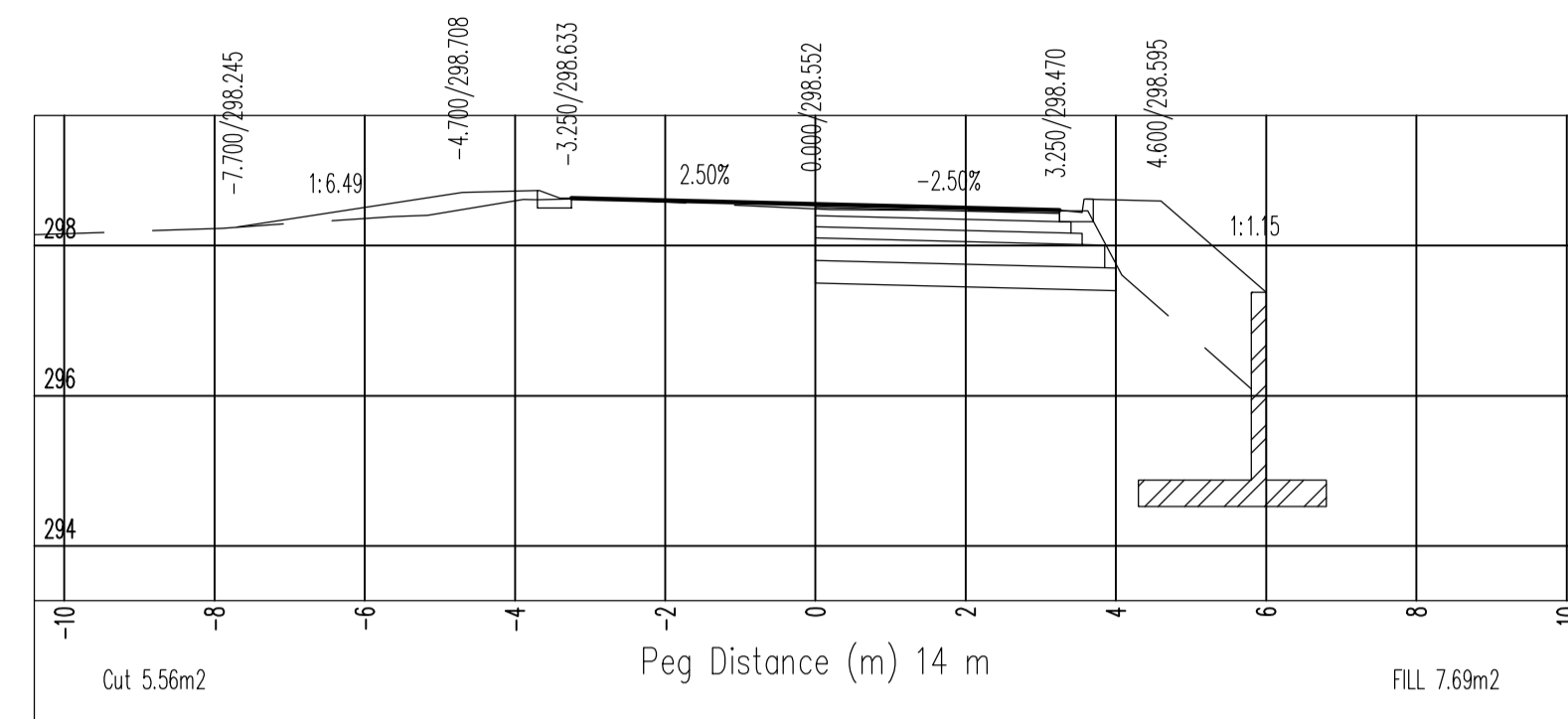
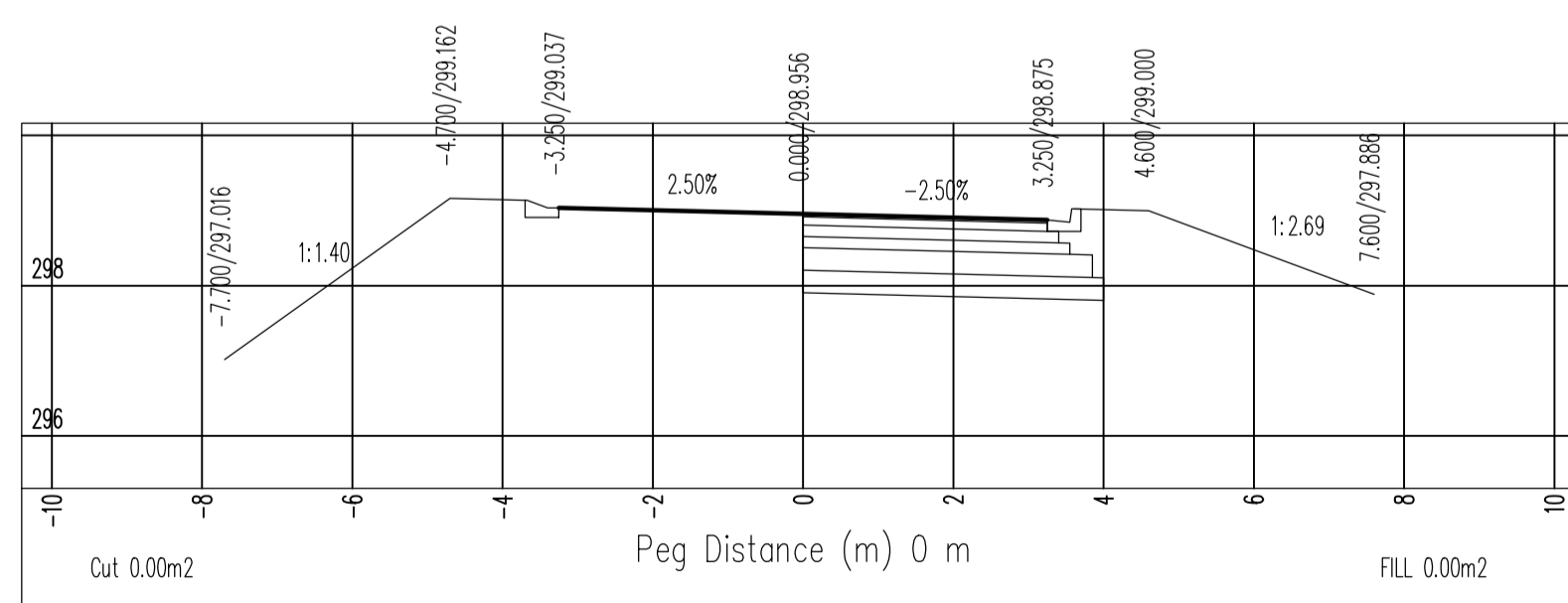
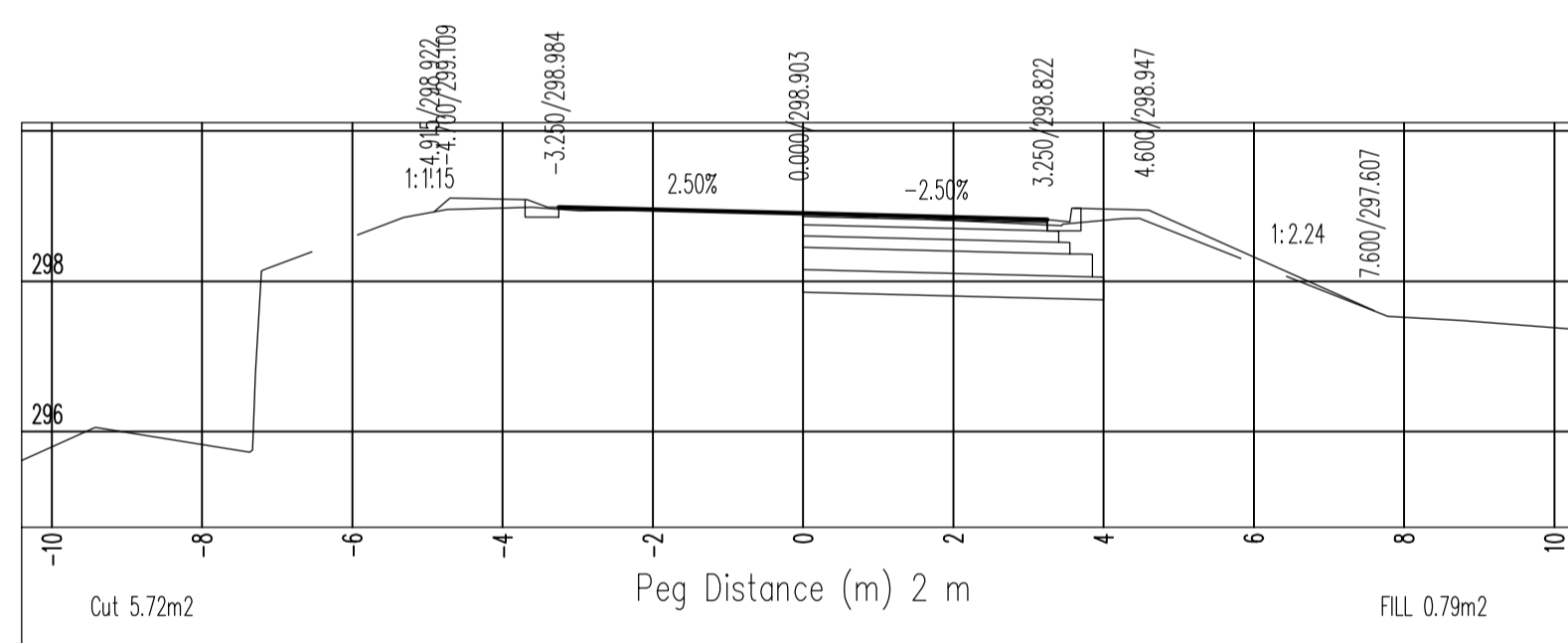
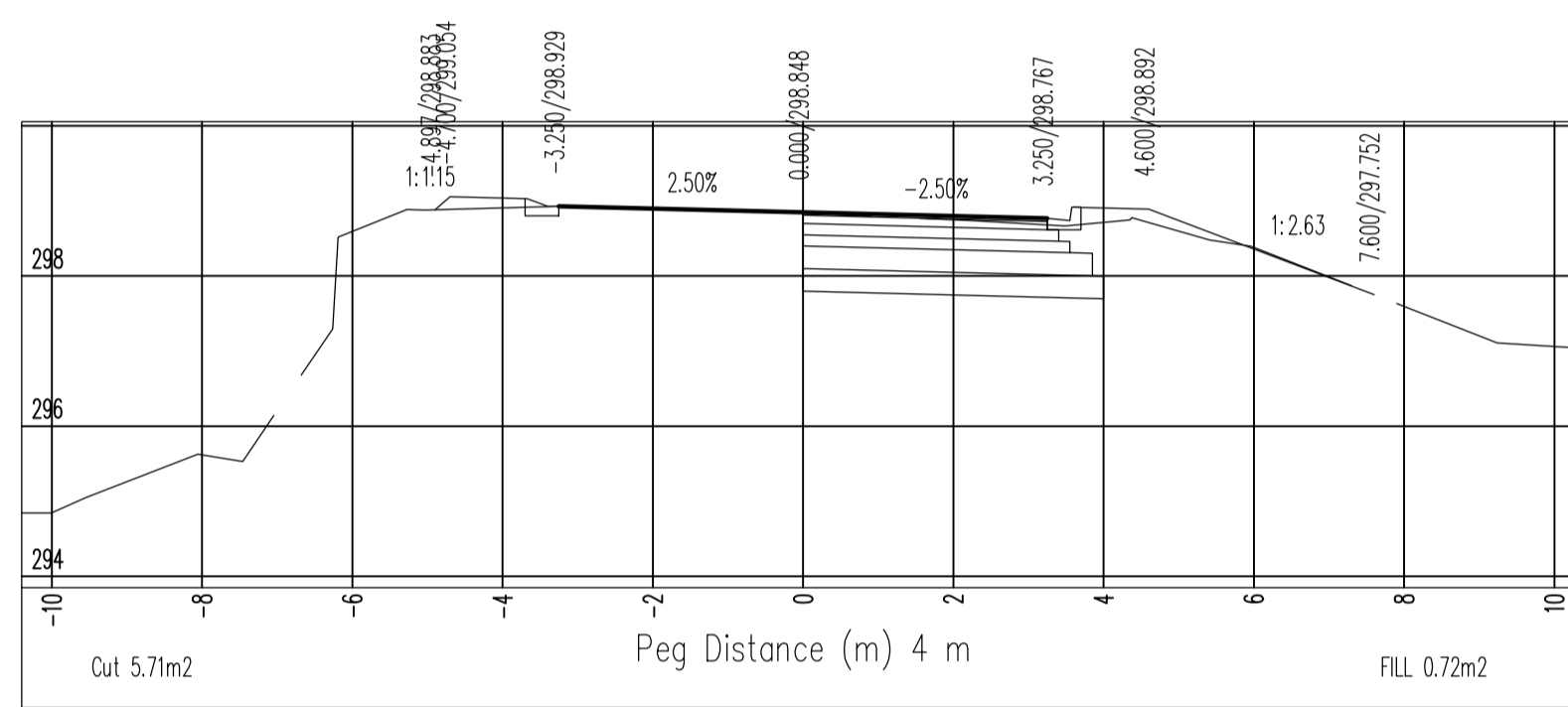
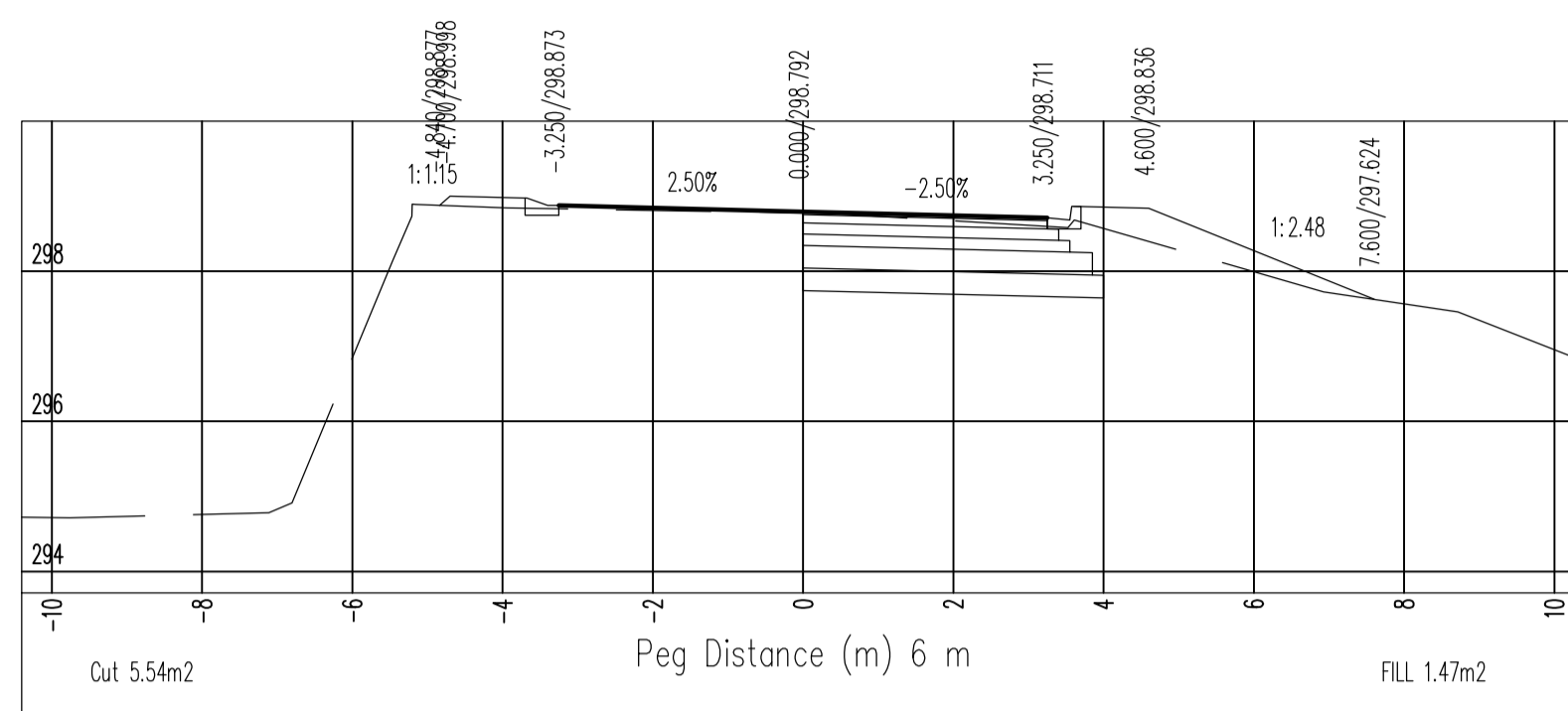
Drawn Antony Leisa. Surveyed Isaac Mhlongo

Manager (Stormwater Eng.): G. Willians

Deputy Head: R. Kasserchun

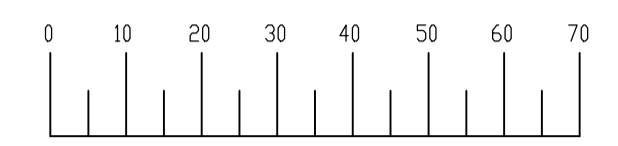
T. Zulu HEAD : ENGINEERING

Drawing No. 00000 Sheet 1 of 3 Rev.





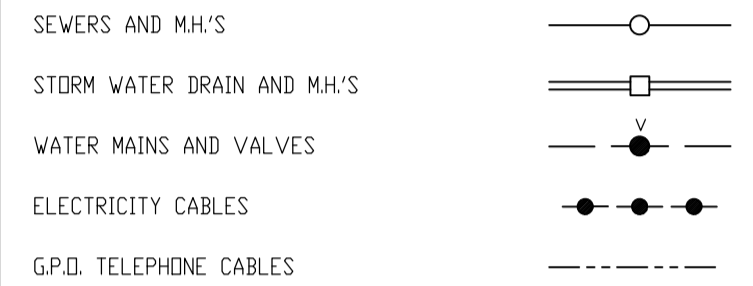
REDUCED PLAN USE SCALE BELOW



70mm DN ORIGINAL PLAN

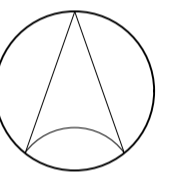
LEGEND

EXISTING UNDERGROUND SERVICES ARE AS SHOWN BELOW



Revision Date Description

NOTE: No construction work to commence until land and servitude acquisitions have been completed



Date Engineer

UNDERGROUND SERVICES CHECKED

SERVICE	DATE	SIGNATURE
SW DRAINS		
SEWERS		
WATER MAINS		
G.P.D. CABLES		
ELECTRIC CABLES		
SAR. CABLES		
ESC. CABLES		
DIL. PIPE LINE		

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Contract No. 1D-00000

Project Title:  
Heaton Nicholls Drive:  
Stormwater infrastructure upgrade with downstream protection works and reinstatement of the road, Ward 18

Drawing Title

Cross sections

SCALES 1:100 Date 30/01/2026

Designed Antony Leisa. Checked Antony Leisa.

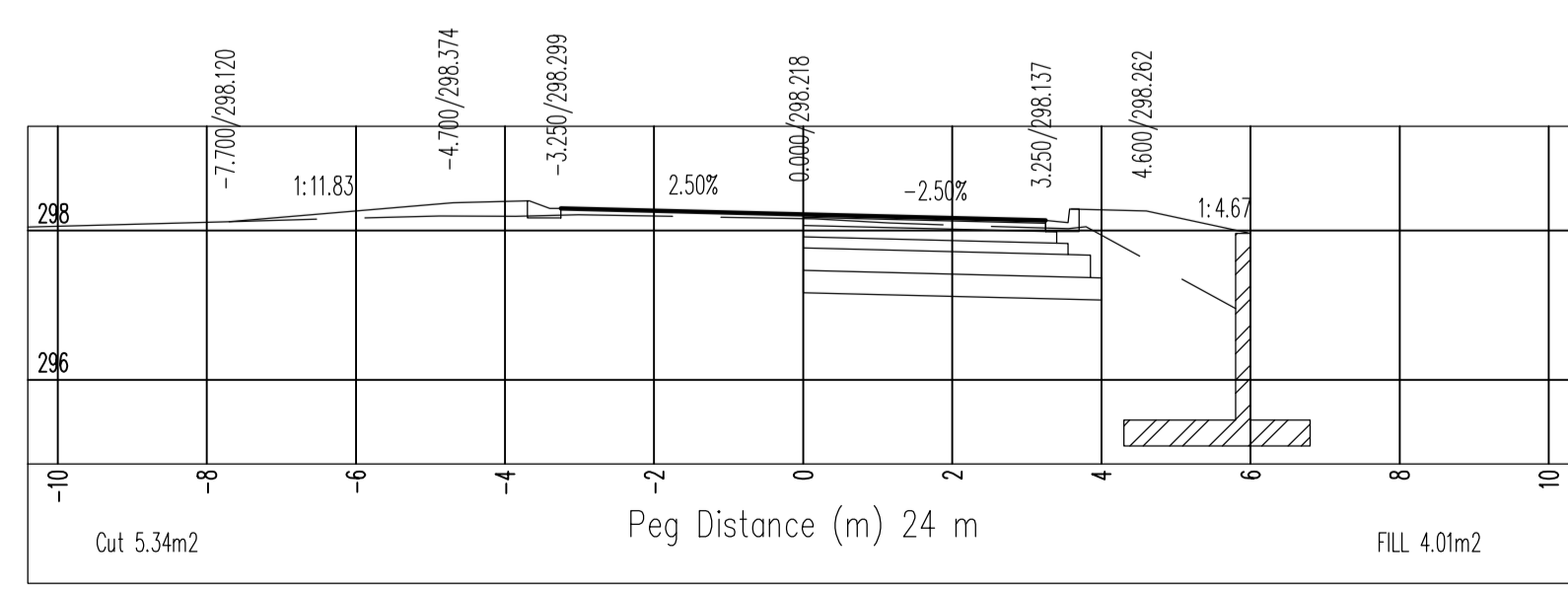
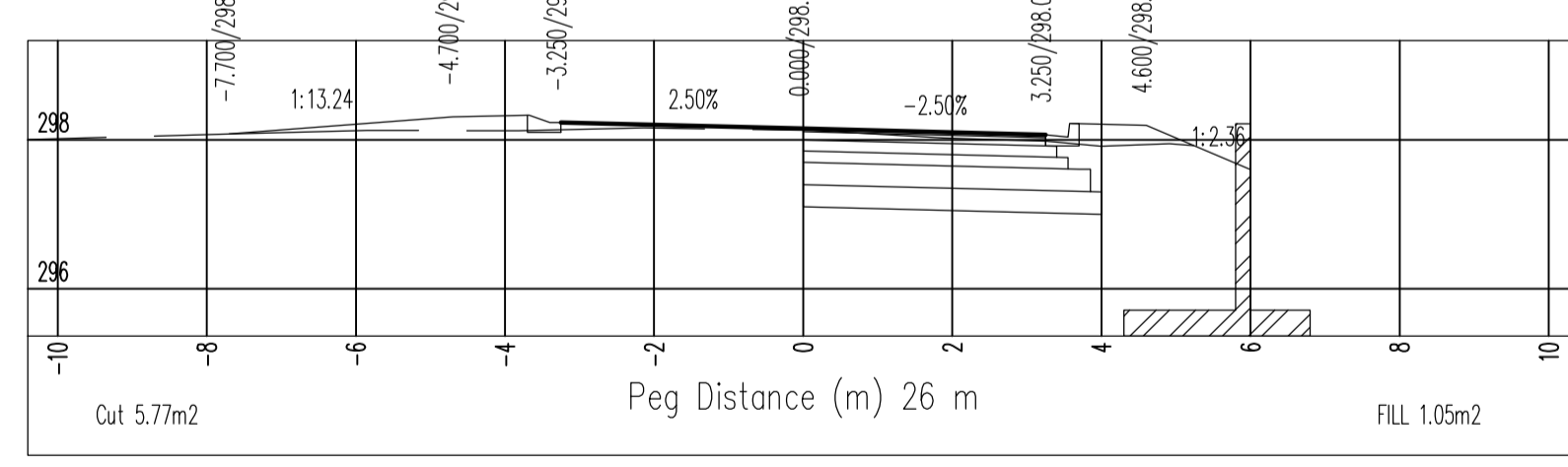
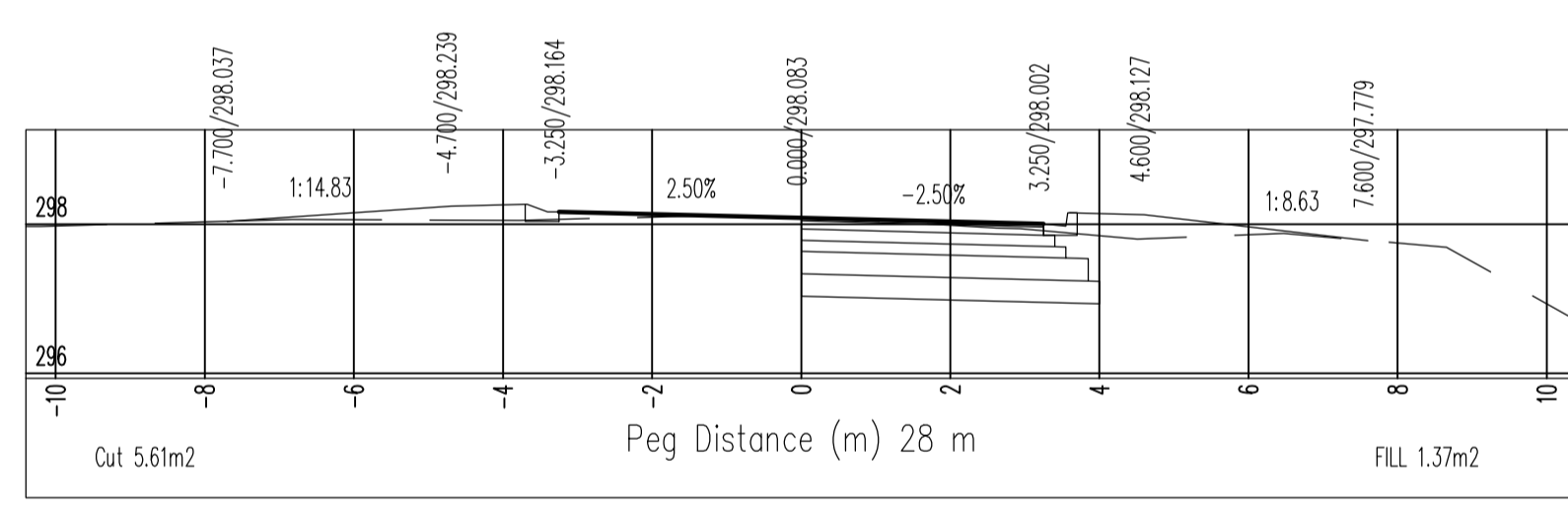
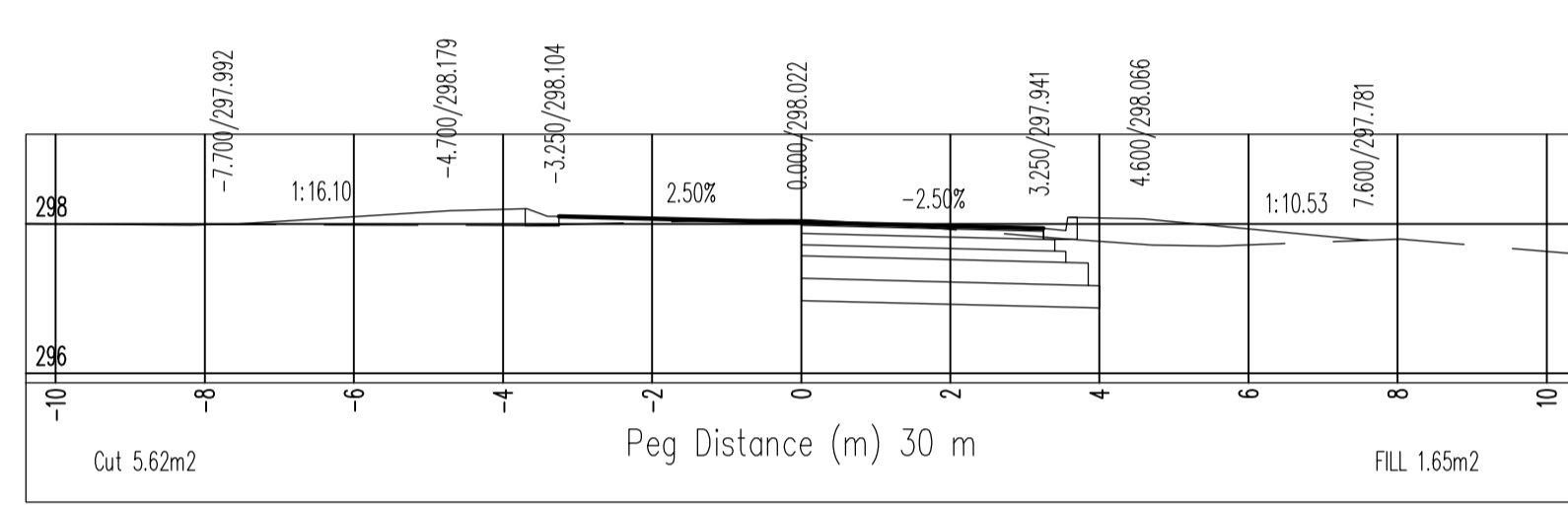
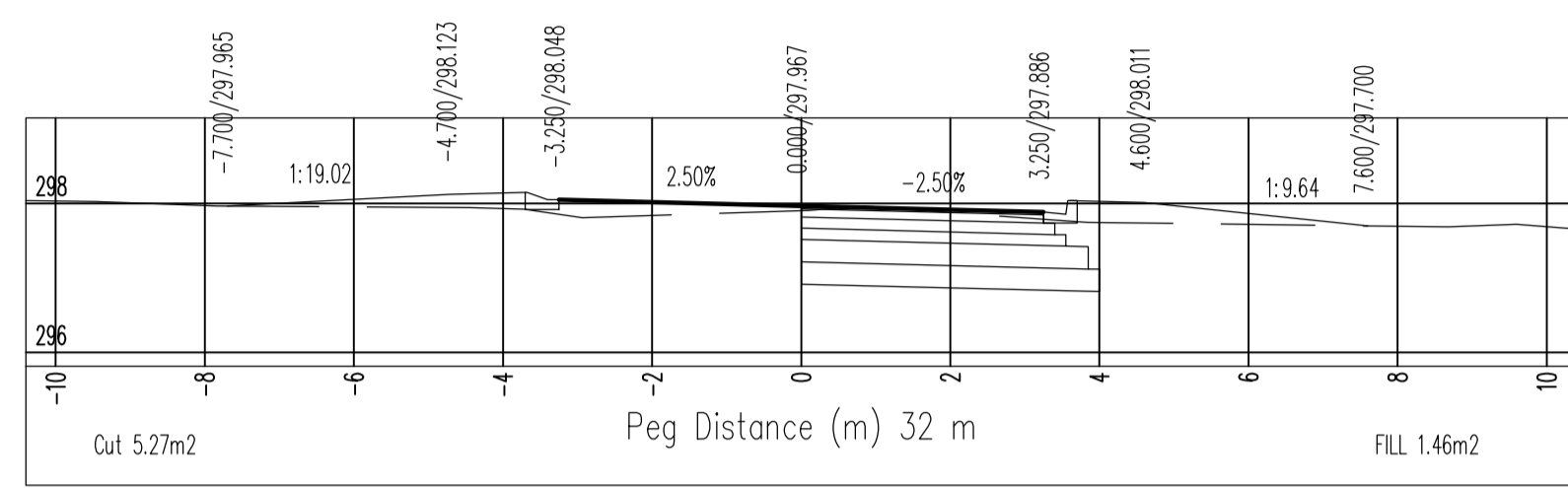
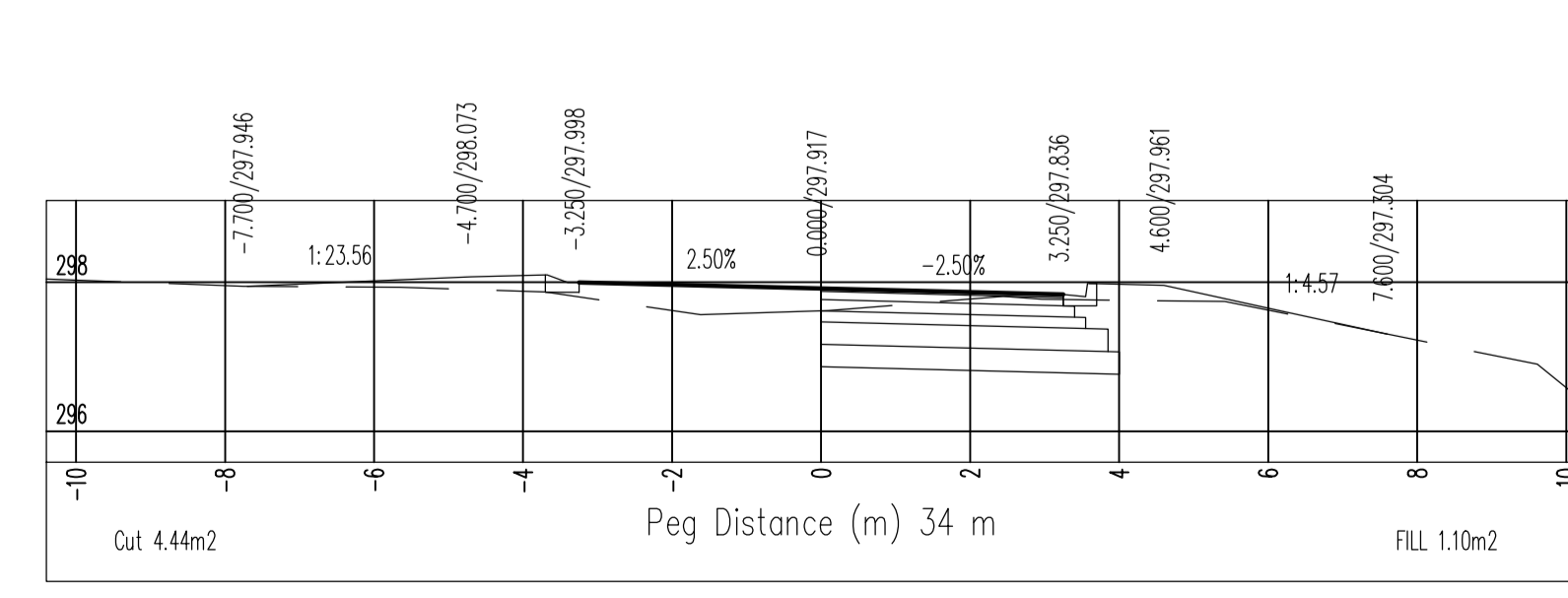
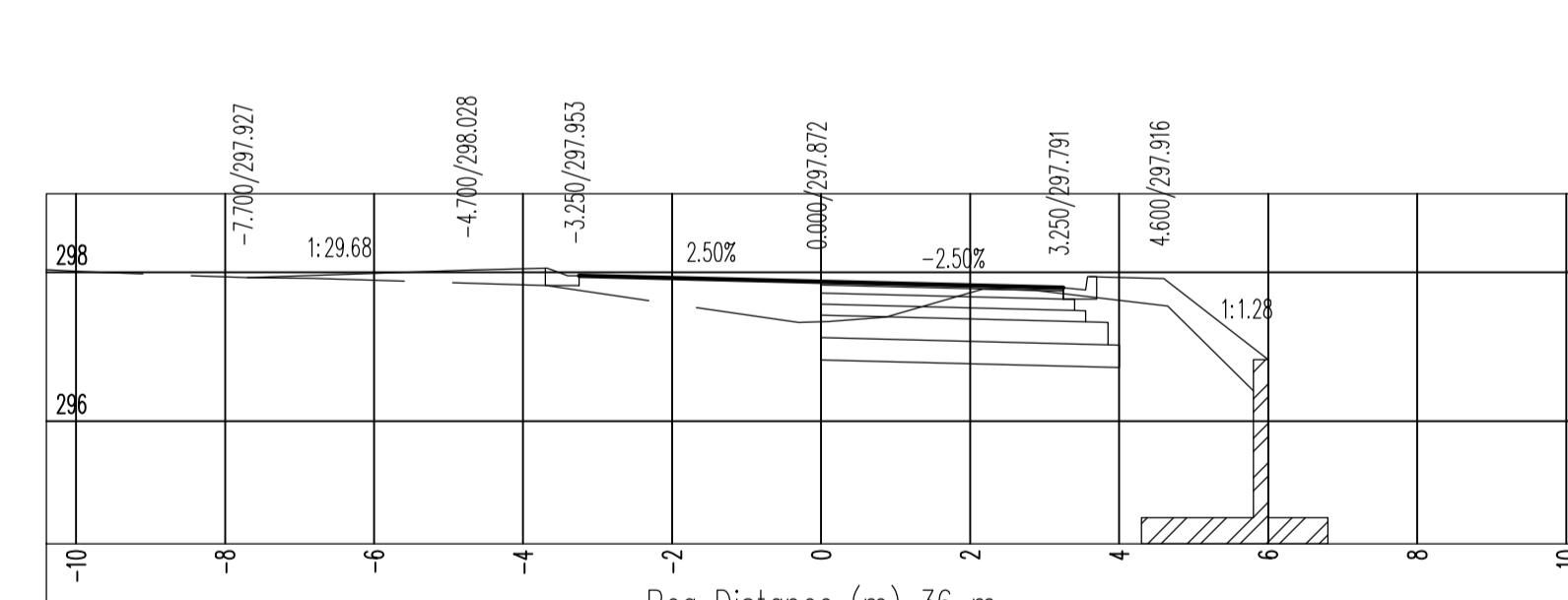
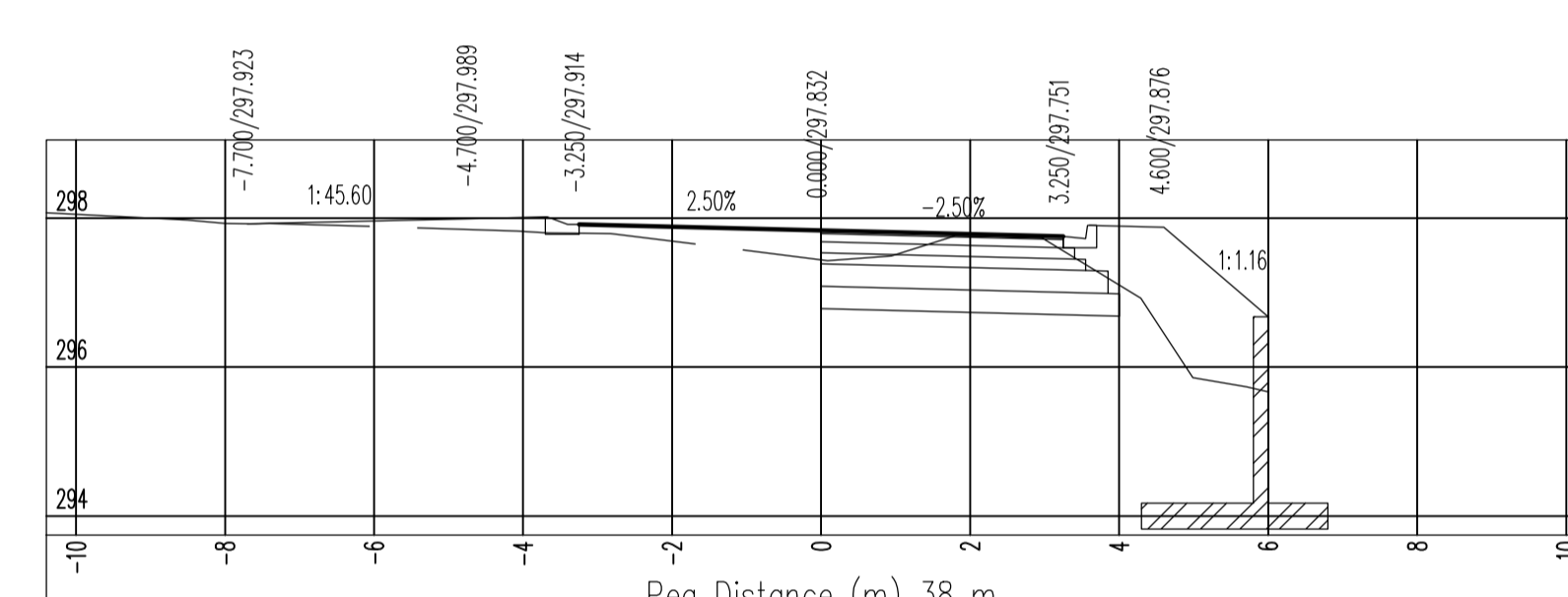
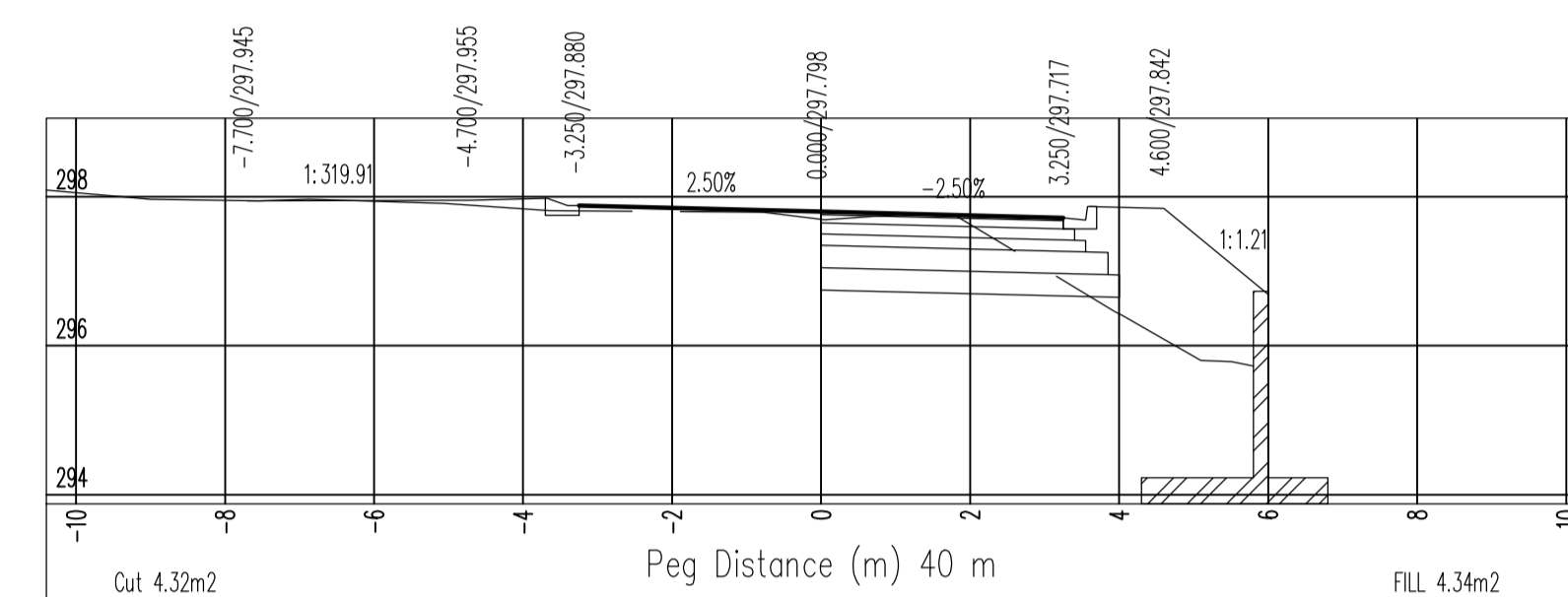
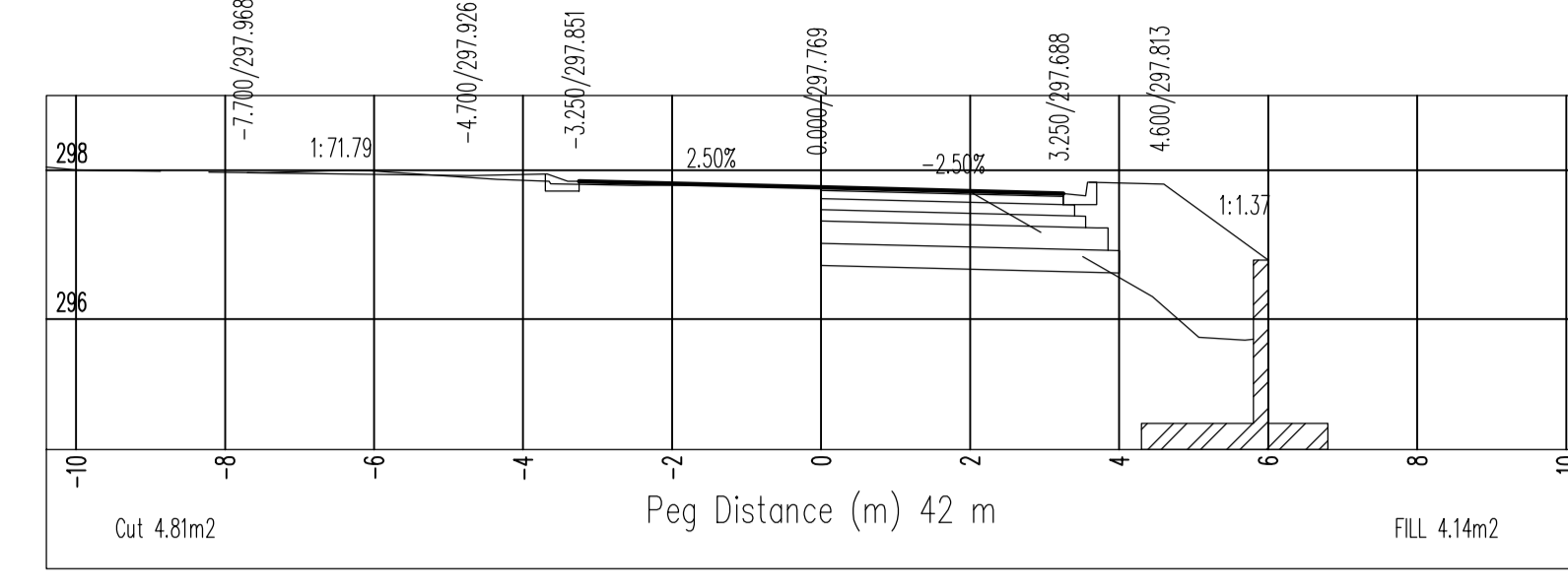
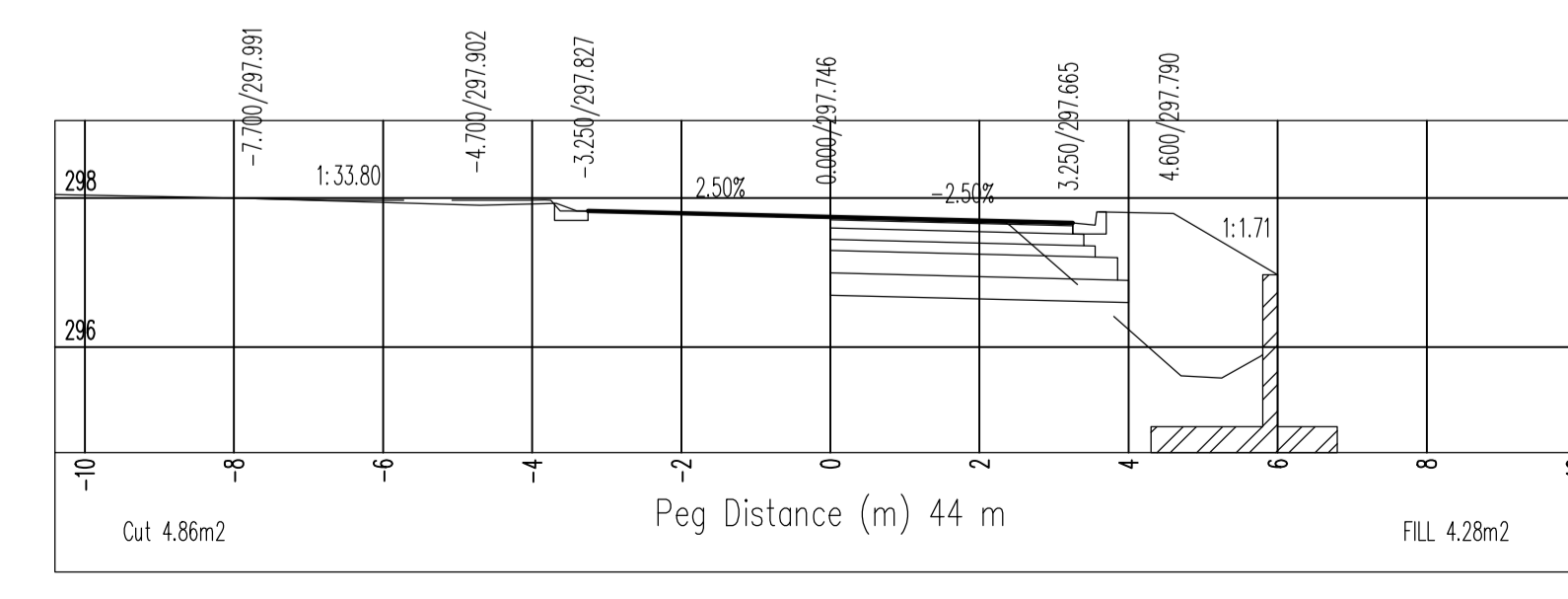
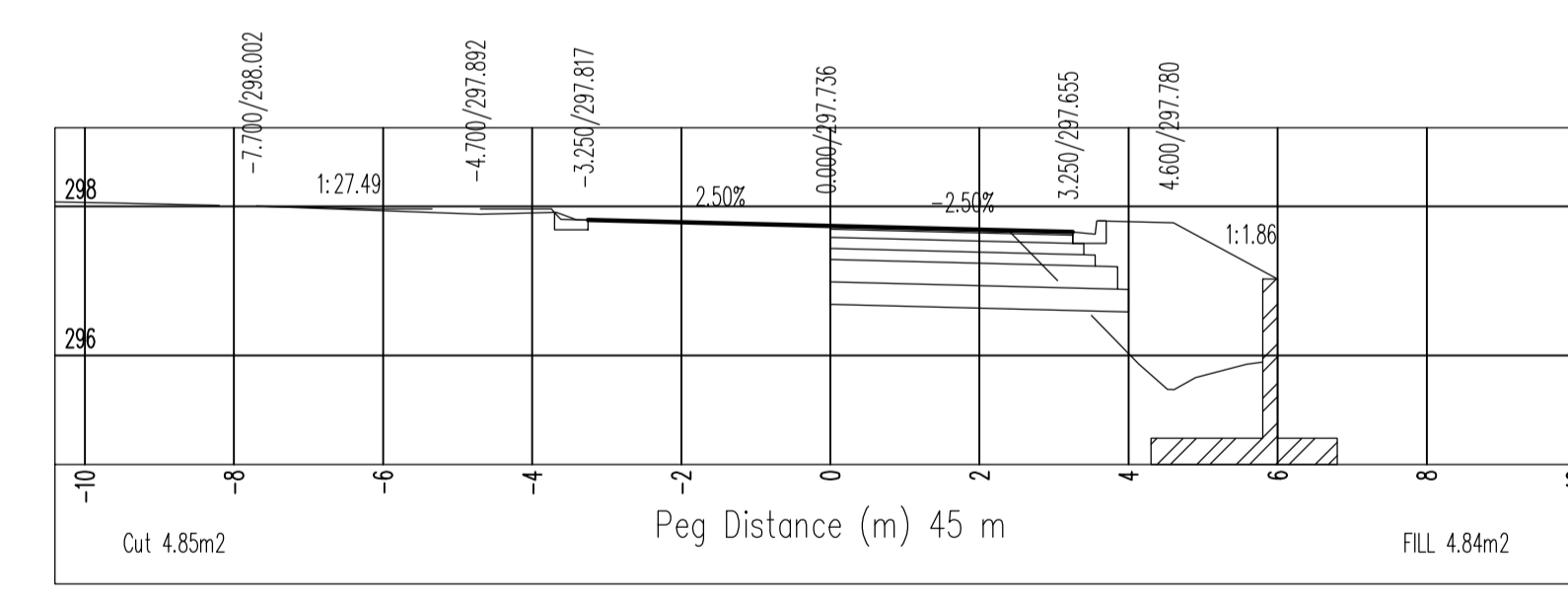
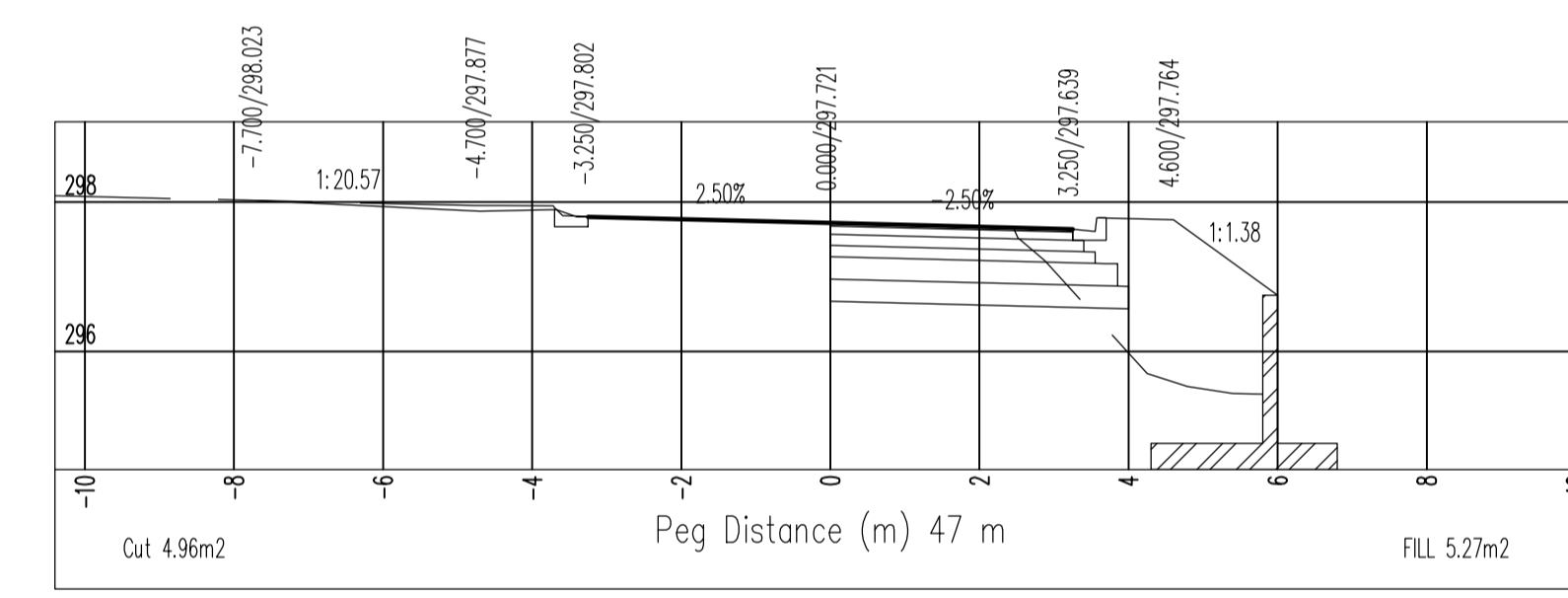
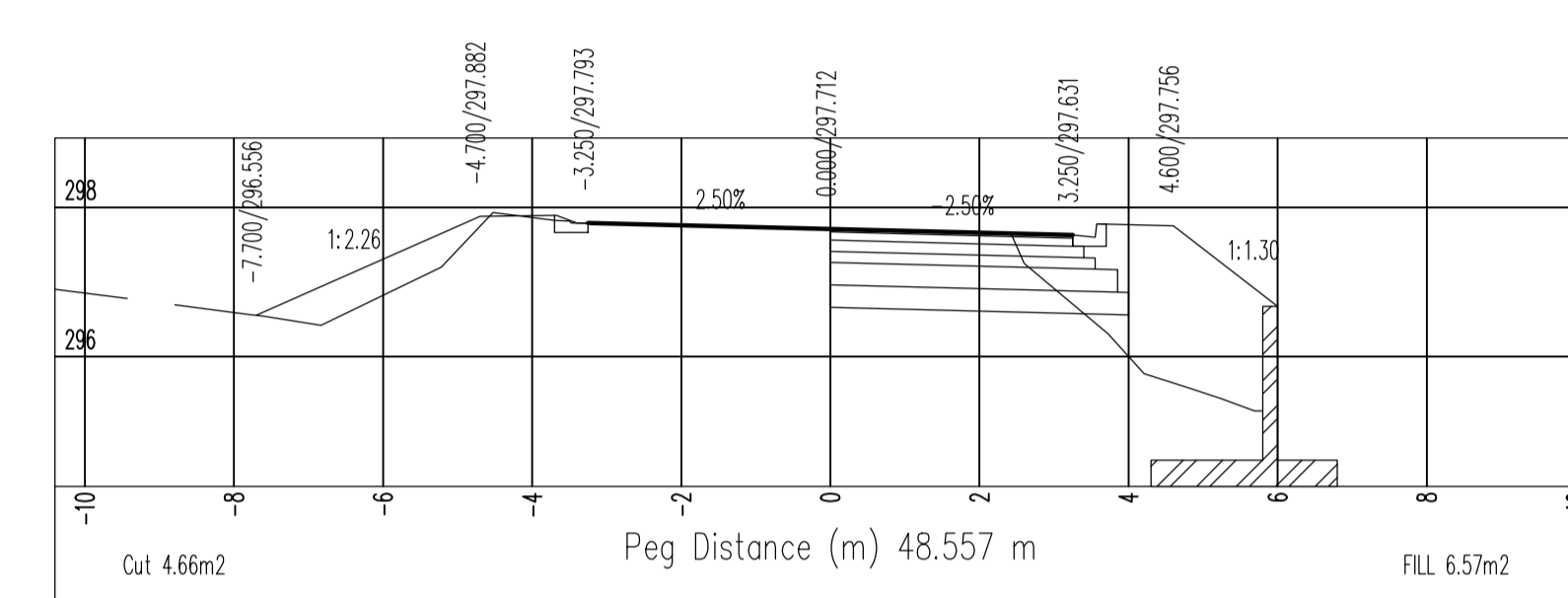
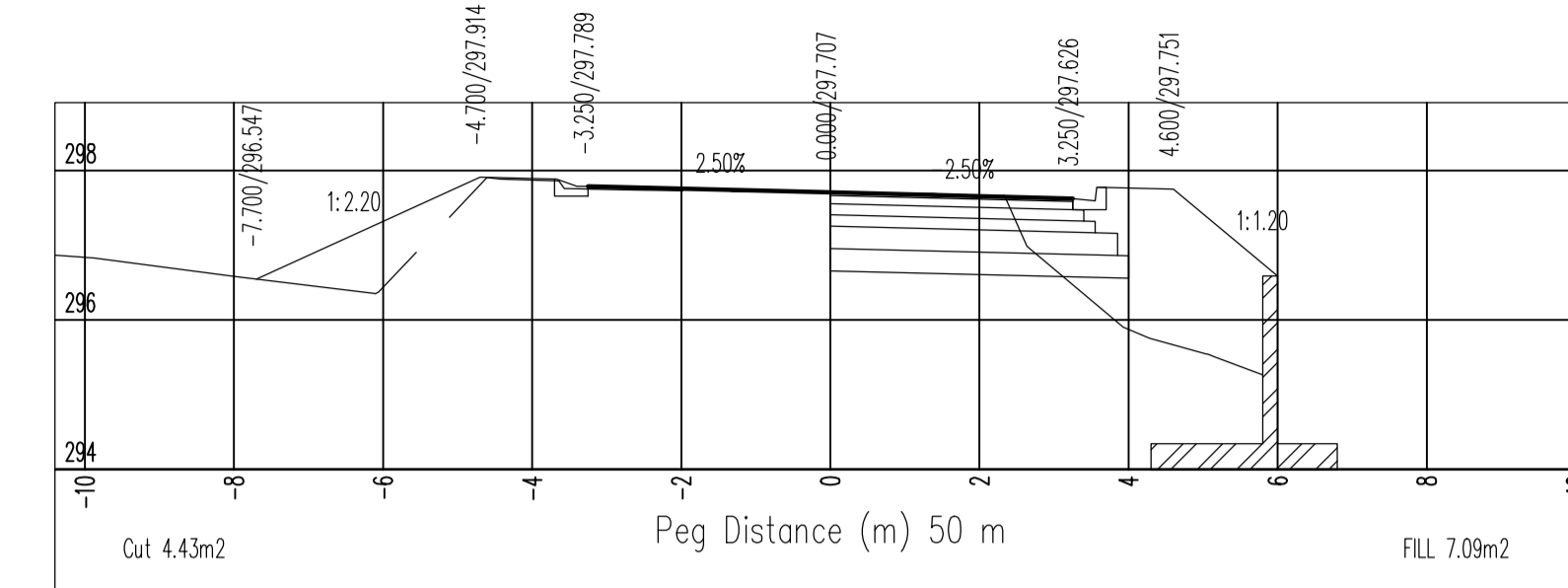
Drawn Antony Leisa. Surveyed Isaac Mhlongo

Manager (Stormwater Eng.) G. Williams

Deputy Head: R. Kasserchun

T. Zulu HEAD : ENGINEERING

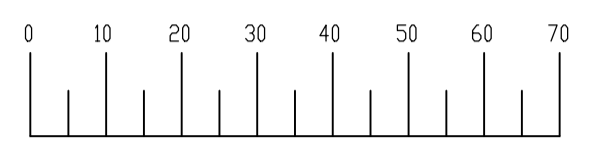
Drawing No. 00000 Sheet 2 of 3 Rev.





ENGINEERING UNIT  
DRAINAGE AND COASTAL ENGINEERING DEPARTMENT

REDUCED PLAN USE SCALE BELOW



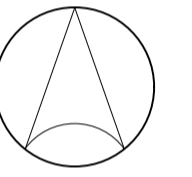
70mm DN ORIGINAL PLAN

LEGEND  
EXISTING UNDERGROUND SERVICES  
ARE AS SHOWN BELOW

- SEWERS AND MH'S
- STORM WATER DRAIN AND MH'S
- WATER MAINS AND VALVES
- ELECTRICITY CABLES
- G.P.D. TELEPHONE CABLES

Revision Date Description

NOTE: No construction work to commence until land and servitude acquisitions have been completed  
Acquisitions completed: -



Date Engineer

UNDERGROUND SERVICES CHECKED

SERVICE	DATE	SIGNATURE
SW DRAINS		
SEWERS		
WATER MAINS		
G.P.D. CABLES		
ELECTRIC CABLES		
S.A.R. CABLES		
E.S.C. CABLES		
D.L. PIPE LINE		

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Contract No. 1D-00000

Project Title:  
Heaton Nicholls Drive:  
Stormwater infrastructure upgrade with downstream protection works and reinstatement of the road, Ward 18

Drawing Title

Cross sections

SCALES 1:100 Date 30/01/2026

Designed Antony Leisa. Checked Antony Leisa.

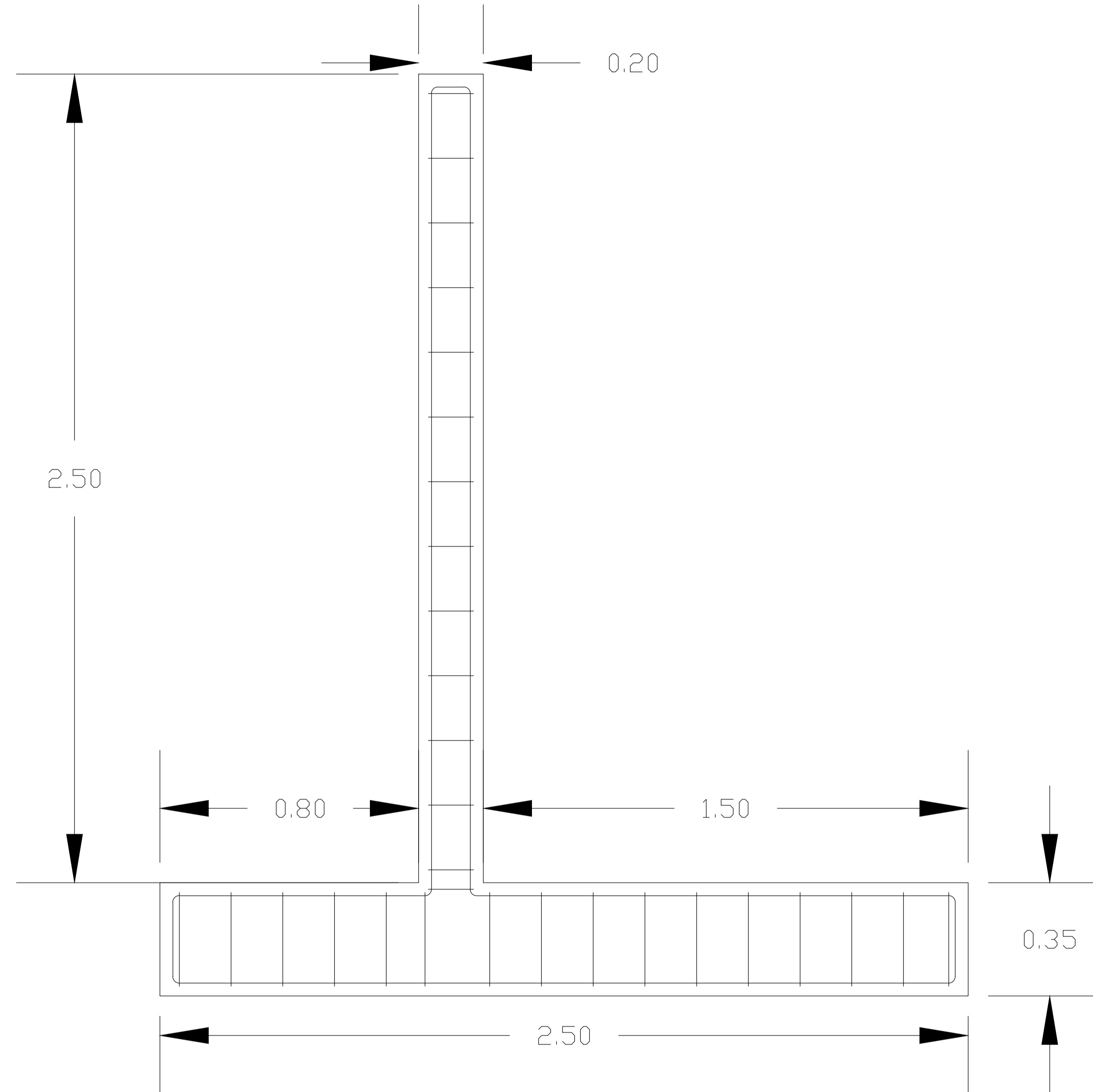
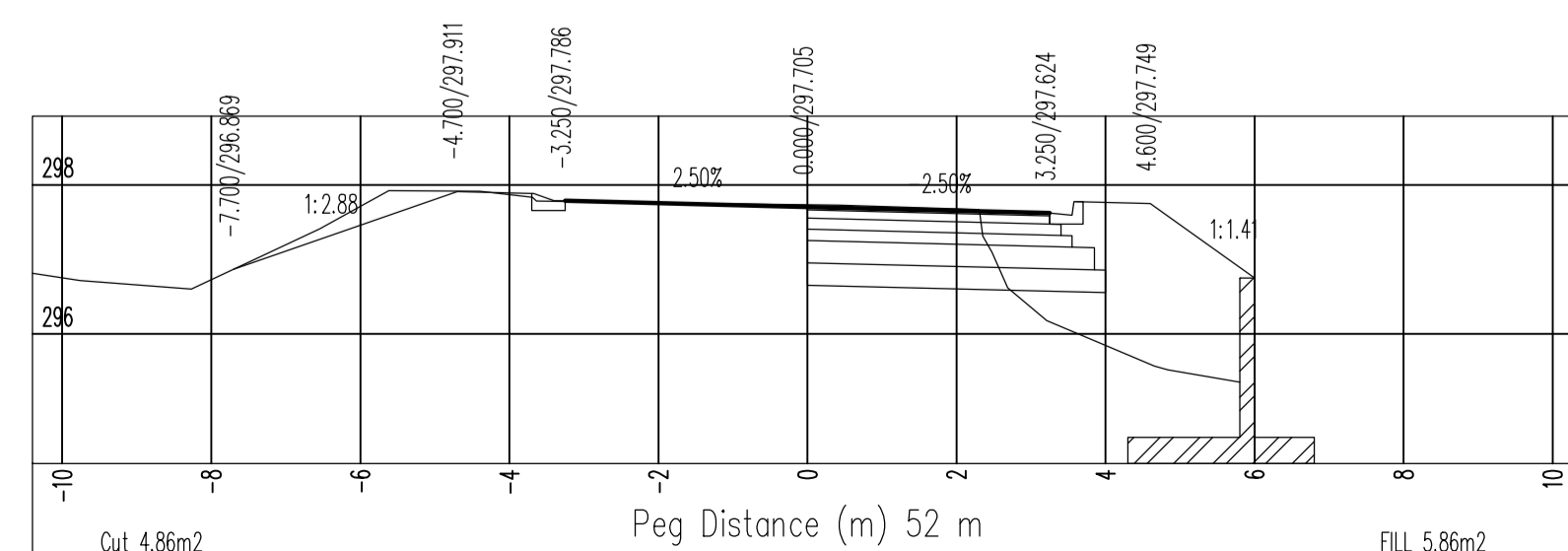
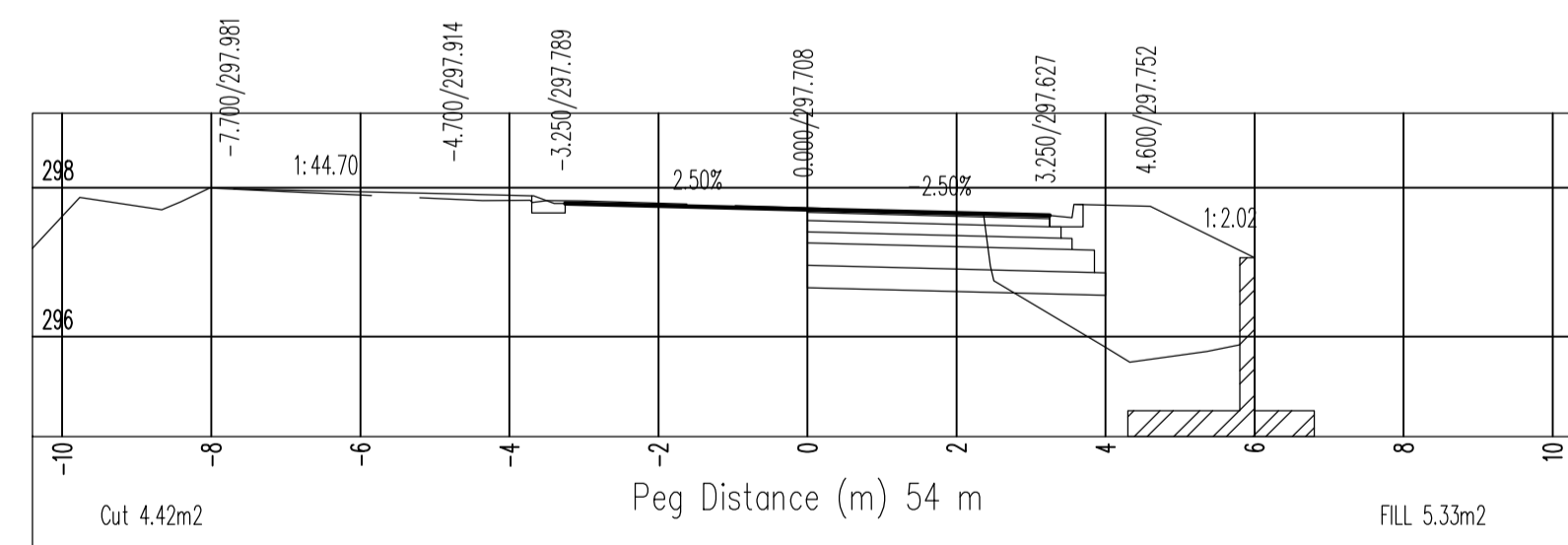
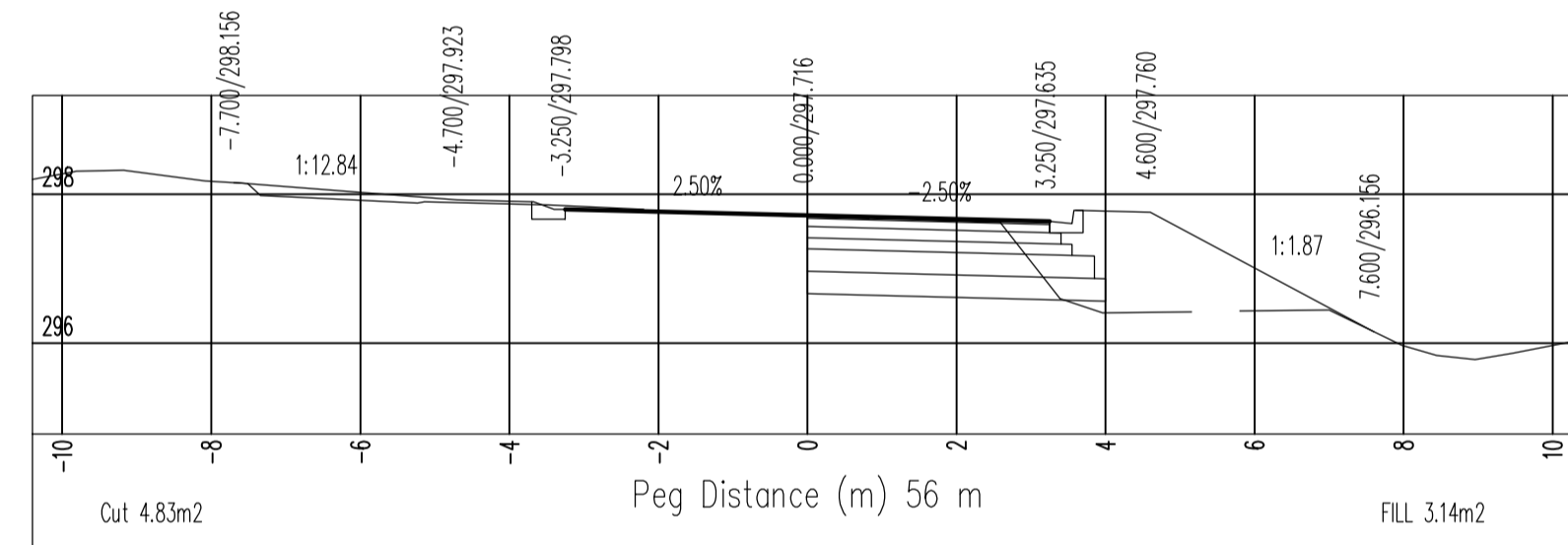
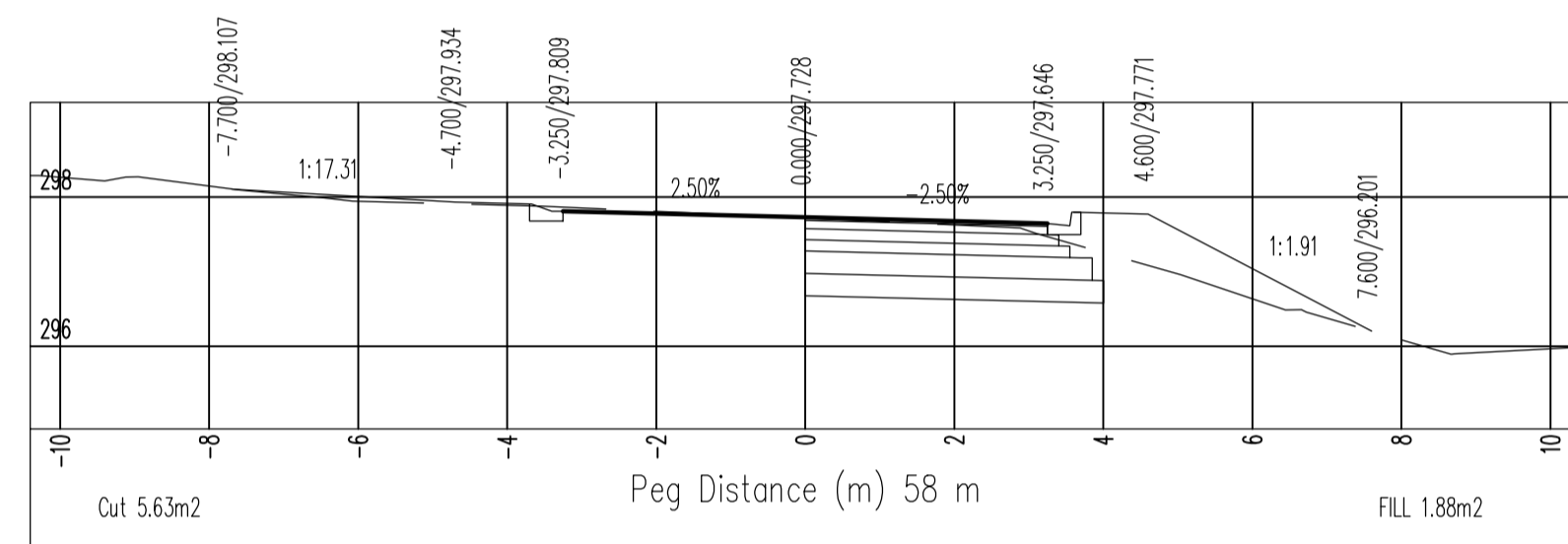
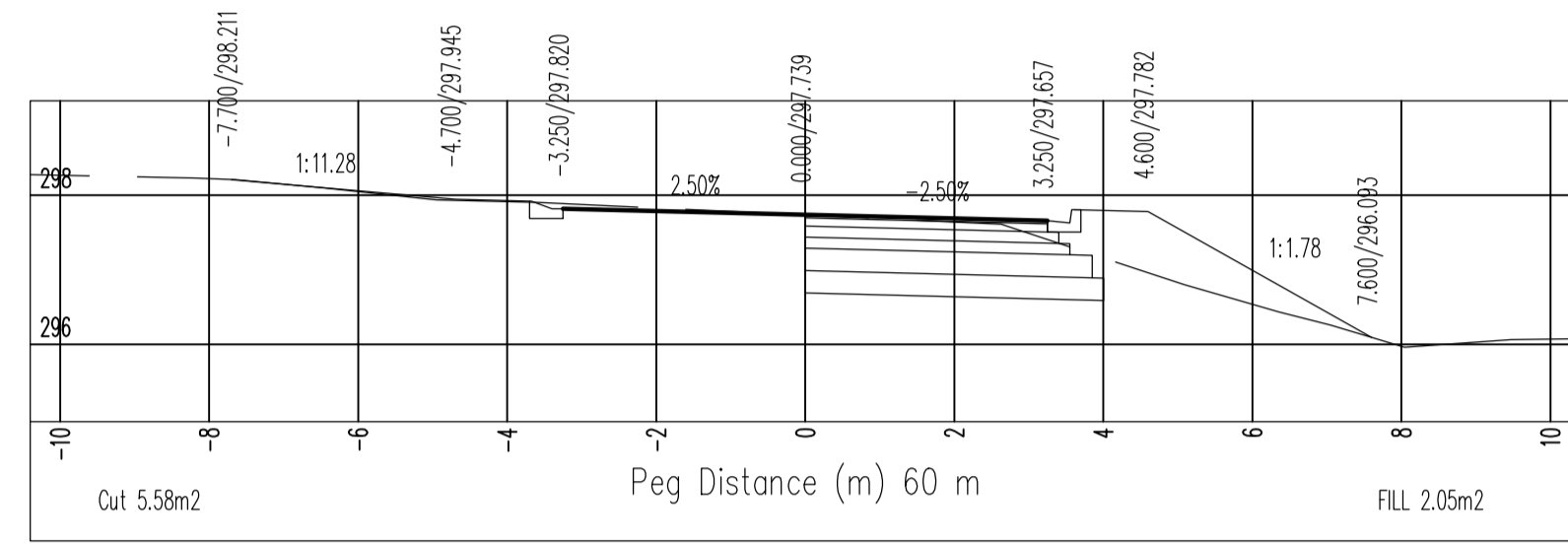
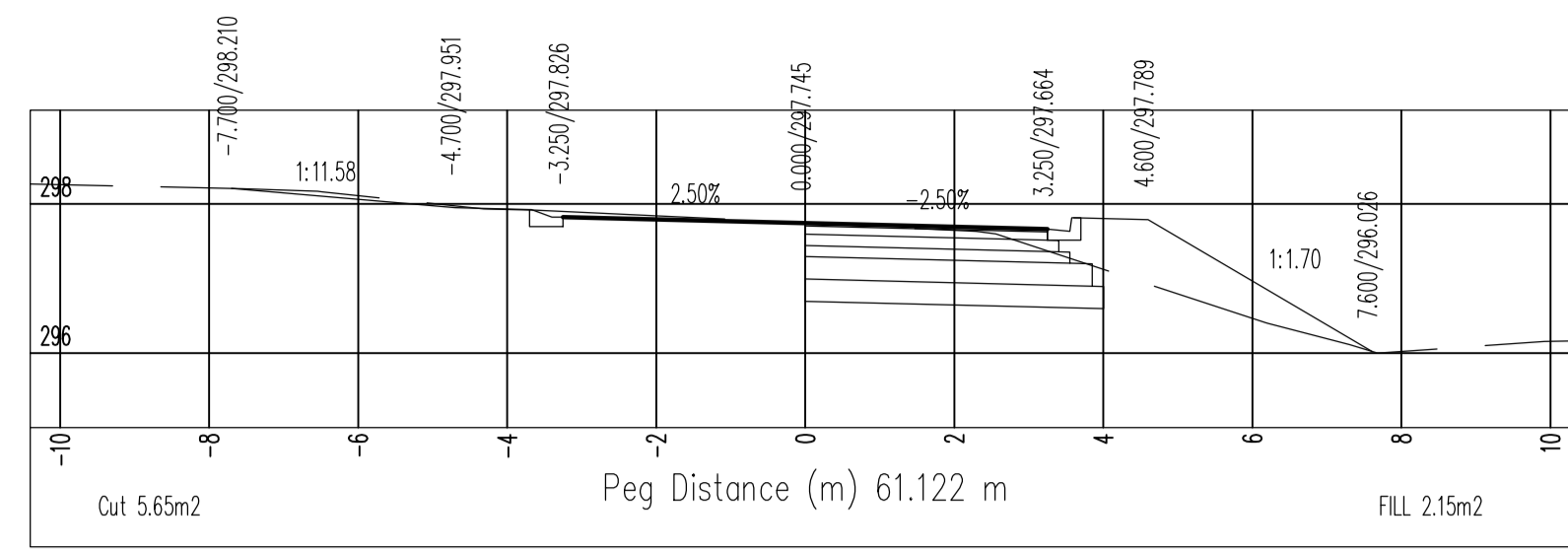
Drawn Antony Leisa. Surveyed Isaac Mhlongo

Manager (Stormwater Eng.): G. Williams

Deputy Head: R. Kasserchun

T. Zulu HEAD: ENGINEERING

Drawing No. 00000 Sheet 3 of 3 Rev.



Typical RC retaining wall  
scale: 1:10