

Bottom Beam 3D View

Part No.	Part Name	Quantity (1 Bottom Beam)
1.	1500mm x 750mm Panel	22
2.	Pushpull Props	14
3.	Tierods (1200mm)	26
4.	Wingnuts	52
5.	100mm x 100mm x 10mm Plates	52
6.	Reusable Anchor M16/M18 x 85mm	23
7.	Anchor Plate/Clamp (Bottom Panel)	23
8.	M12 Grade 8.8 Bolt - Side panel fixing	80
9.	M12 Grade 8.8 Bolt - Top prop fixing	28
10.	Reusable Anchor M12 x 85mm - Bottom Prop	28

**General Notes**

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Customer drawings: 1MC08-BBV\_MSD-CV-SKE-NS01\_NL05-528011  
Temporary Works Ref: B0124-TWD-001

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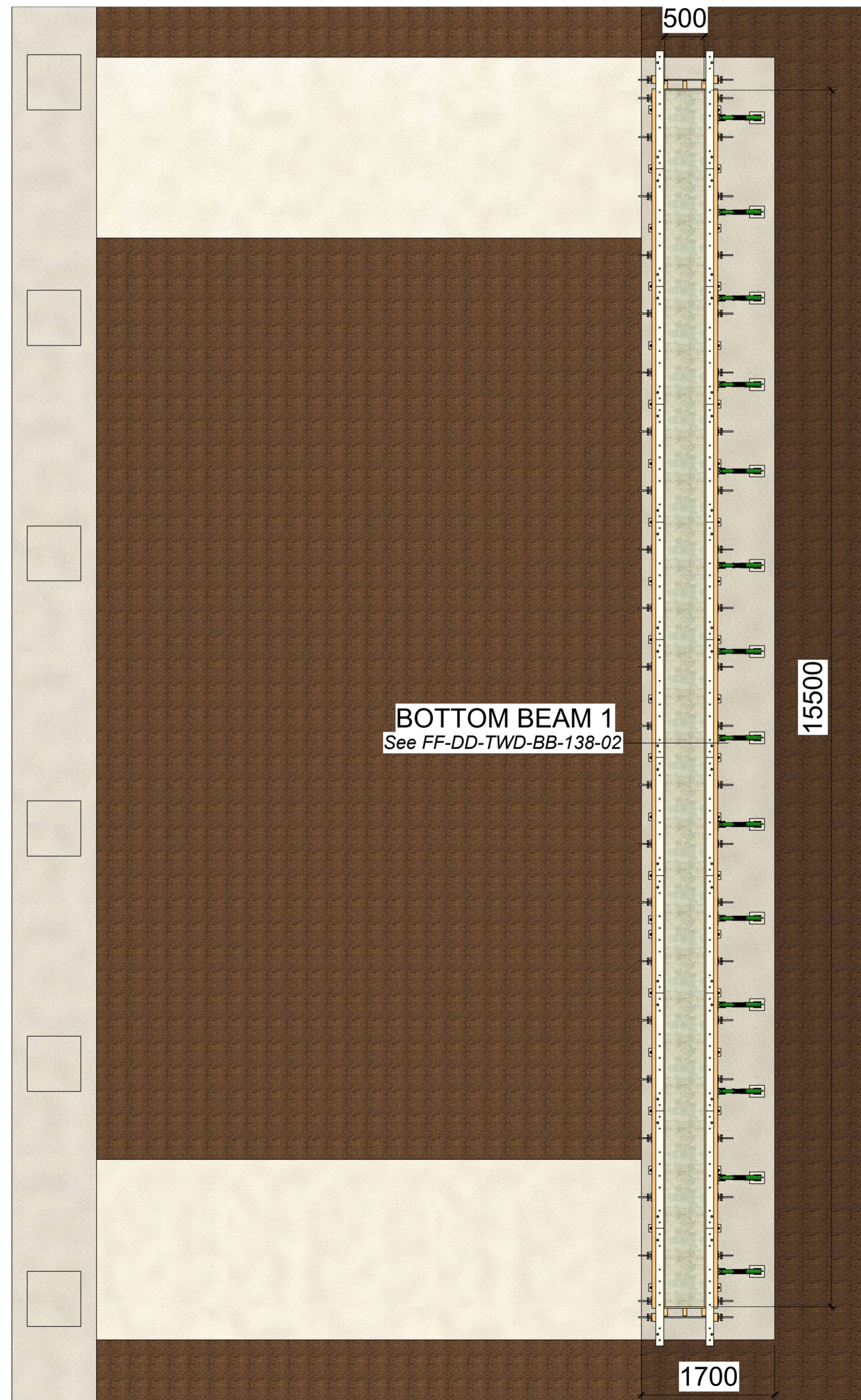
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- Protect freshly cast concrete and exposed edges from damage during formwork removal and subsequent works.

Maximum Tension on Tie rod 15mm dia : 90kN  
Maximum Imposed Tie Load : .....kN

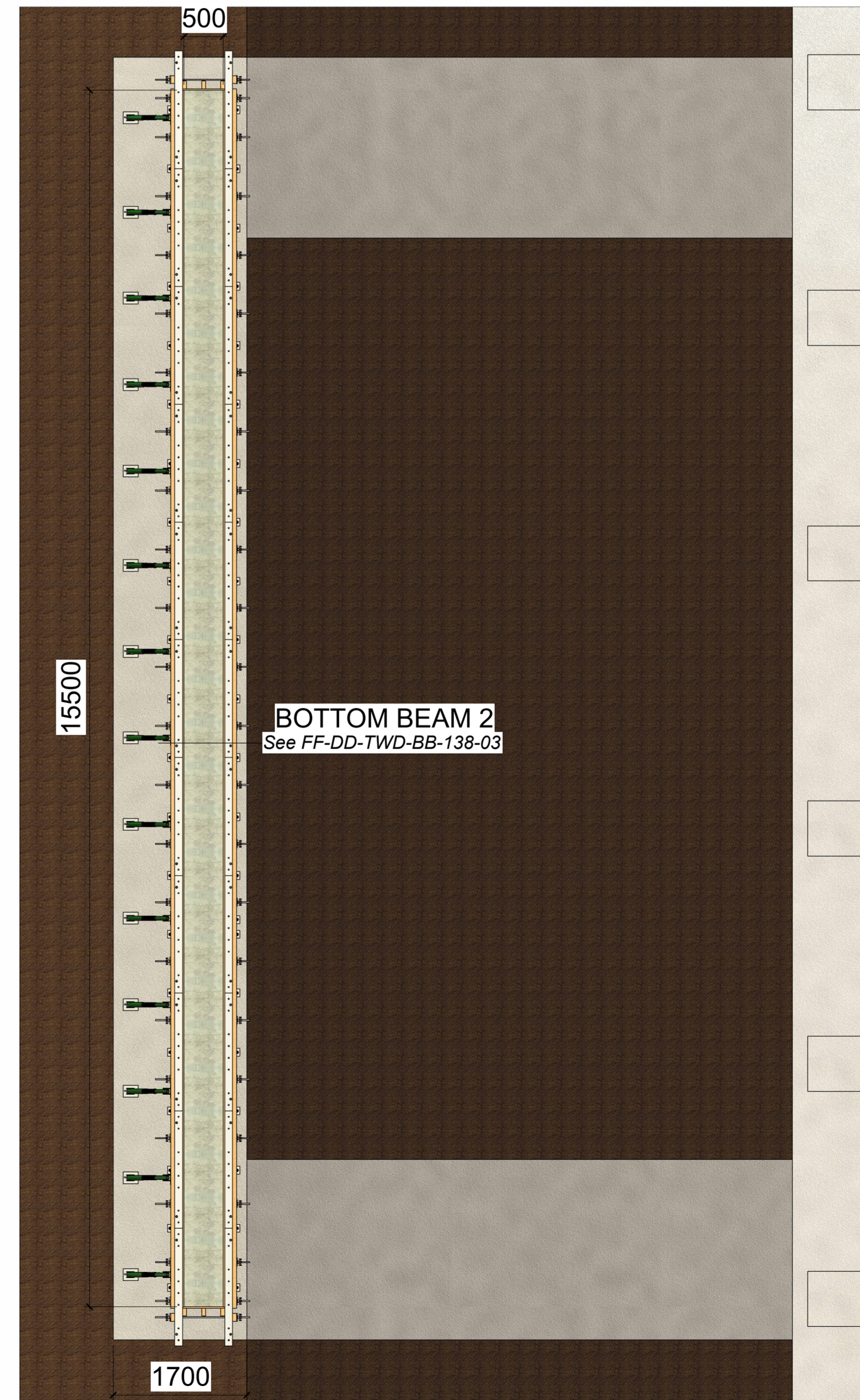
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← WEST



**BOTTOM BEAM 1**  
See FF-DD-TWD-BB-138-02

EAST →



**BOTTOM BEAM 2**  
See FF-DD-TWD-BB-138-03

Bottom Beam Plan View

Rev	Date	Description	Drwn.	App.
R00	24/03/26	Draft Drawing	FG	TF

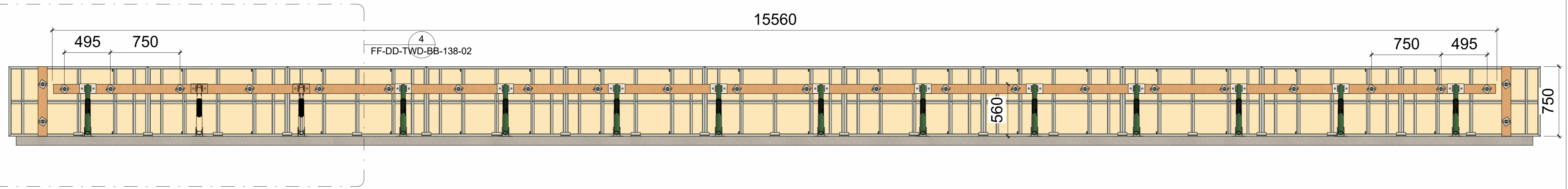
Revision Schedule



Drawing title:-  
**BOTTOM BEAM**  
Mercote Hall Lane  
Formwork-Raking Beam  
-Shutter Layout Proposal

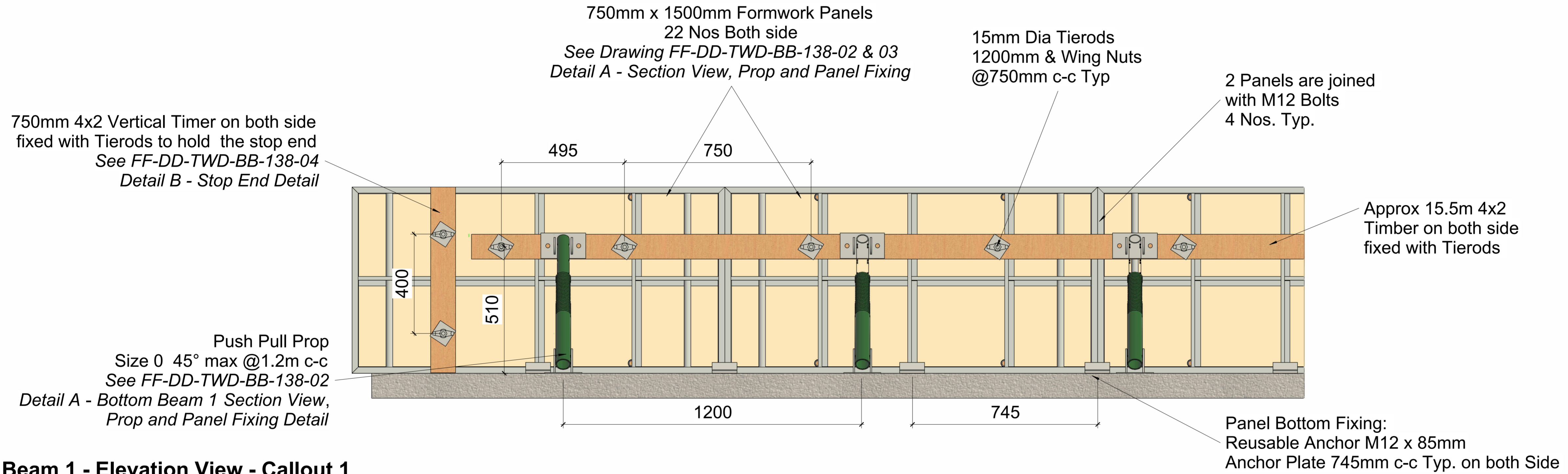
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Level:-	Location:-	Zone:-	Scale:- NTS

Drawing Number FF-DD-TWD-BB-138-01	REV. R00
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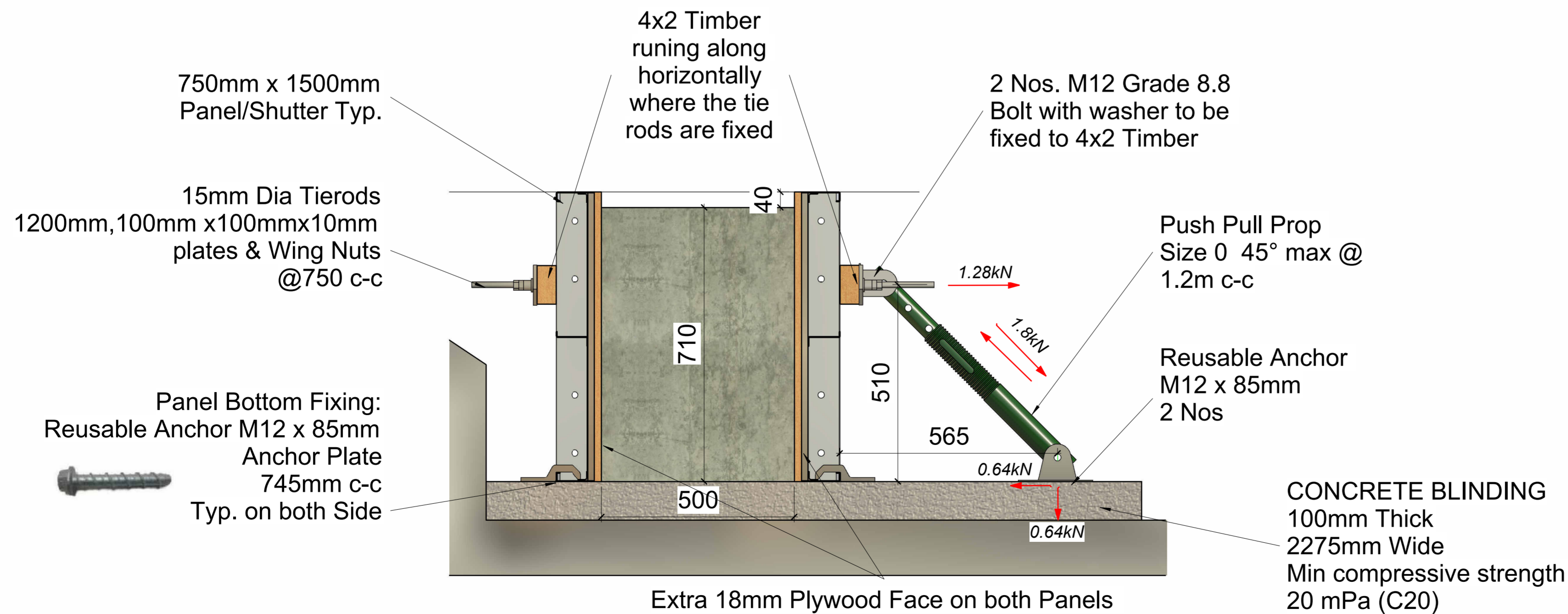
**BOTTOM BEAM 1 - Elevation view**

1 : 24



**Bottom Beam 1 - Elevation View - Callout 1**

1 : 10



**Detail A - BOTTOM BEAM 1 Section View, Panel and Prop Fixing Detail**

1 : 9

**Bottom Beam Load Calculation**

Pressure Distribution:  $24 \times 0.71 = 17\text{kN/m}^2$   
 Panel Forces:  $17/2 \times (0.71 \times .5) = 3.02\text{kN}$   
 Moment about the Base:  
 $3.02 \times 1/3 \text{ of Panel height} = 0.716\text{kN}$   
 Axial Load on the Prop:  
 $0.716 / (0.51 \times \cos 45) = 1.81\text{kN}$   
 Base reaction:  $3.02 - 1.28 = 1.74\text{kN}$

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  - Protect freshly cast concrete and exposed edges from damage during formwork removal and subsequent works.
- Maximum Tension on Tie rod 15mm dia : 90kN  
 Maximum Imposed Tie Load : .....kN

**RESIDUAL RISK NOTES:**

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Rev	Date	Description	Drwn	App.
R00	24/03/26	Draft Drawing	FG	TF

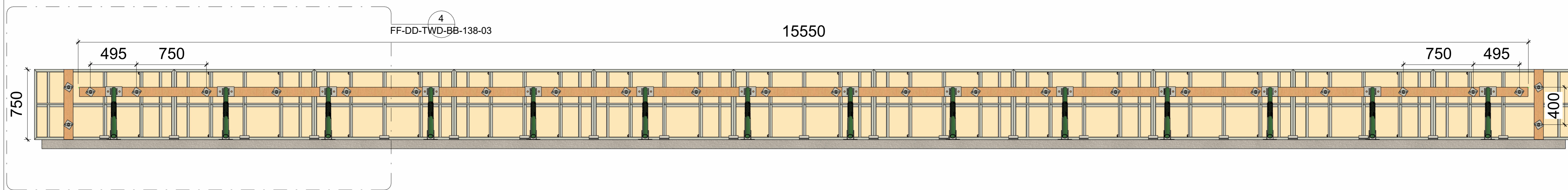
Revision Schedule



Drawing title:-  
**BOTTOM BEAM**  
 Mercote Hall Lane  
 Formwork-Bottom Beam -Plan  
 View Details

Drawn:-	Checked:-	Authorised:-	Sheet:-
FG	TF	Approver	
Level:-	Location:-	Zone:-	Scale:-
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Drawing Number: FF-DD-TWD-BB-138-02  
 REV: R00



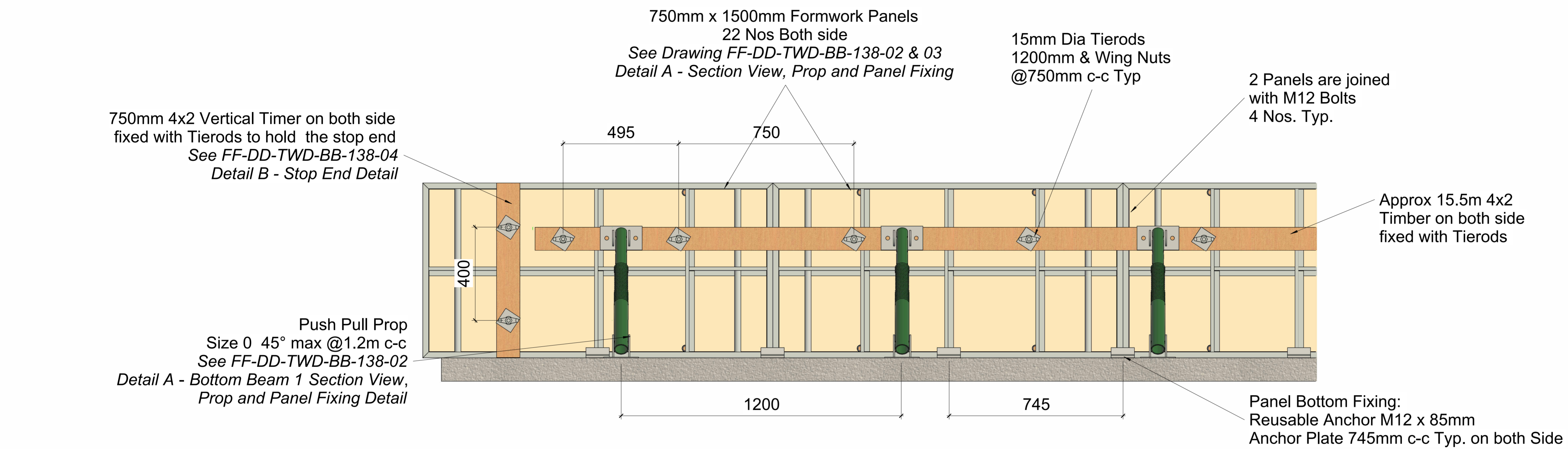
**BOTTOM BEAM 2 - Elevation view**  
1 : 24

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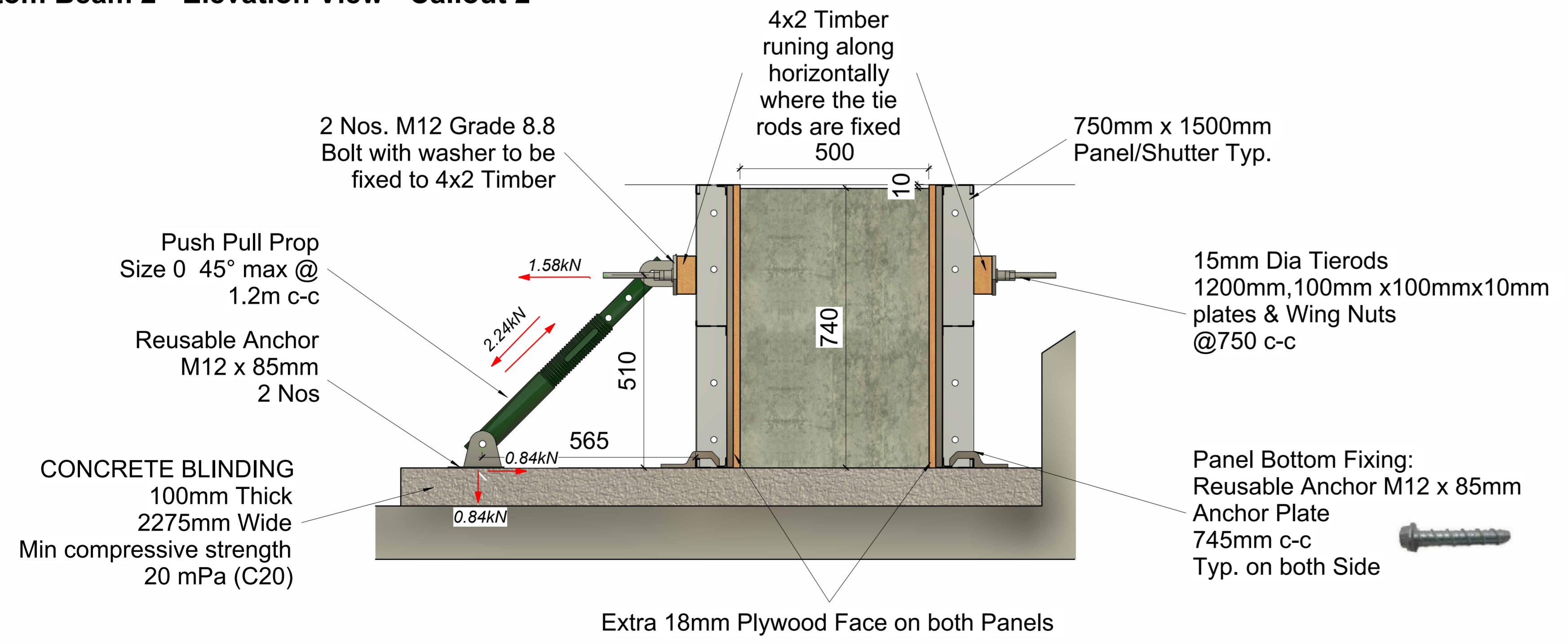
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**Bottom Beam 2 - Elevation View - Callout 2**  
1 : 10



**Bottom Beam Load Calculation**

Pressure Distribution:  $24 \times 0.74 = 17.76\text{kN/m}^2$   
 Panel Forces:  $17.76/2 \times (0.74 \times .5) = 3.28\text{kN}$   
 Moment about the Base:  
 $3.28 \times 1/3 \text{ of Panel height} = 0.81\text{kN}$   
 Axial Load on the Prop:  
 $0.81 / (0.51 \times \cos 45) = 2.24\text{kN}$   
 Base reaction:  $3.28 - 1.58 = 1.69\text{kN}$

**Detail A - BOTTOM BEAM 2 Section View, Panel and Prop Fixing Detail**  
1 : 9

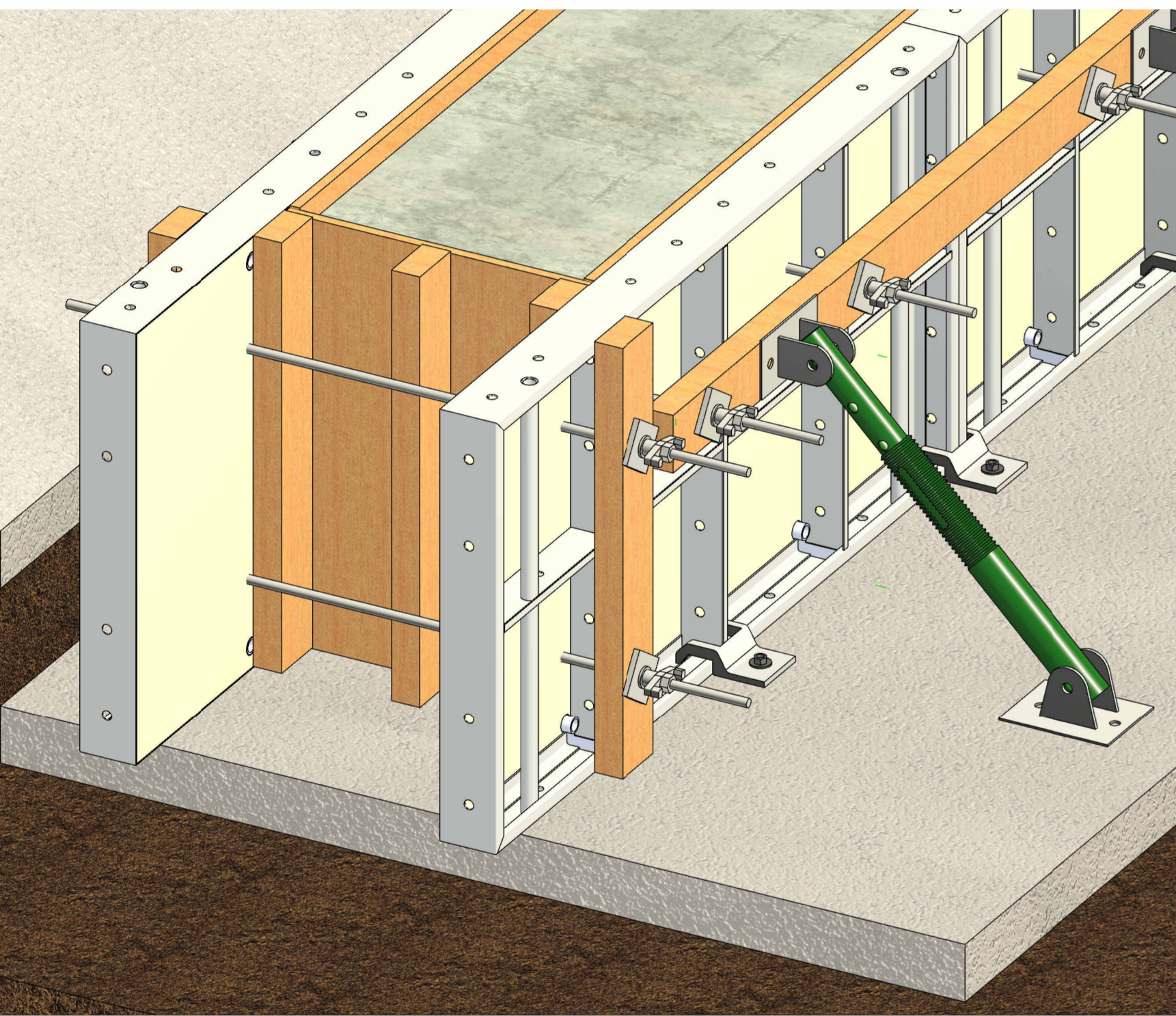
Rev	Date	Description	Drwn	App.
R00	24/03/26	Draft Drawing	FG	TF

Revision Schedule



Drawing title:-  
**BOTTOM BEAM**  
Mercote Hall Lane  
Formwork-Raking Beam  
-Elevation Detail 2

Drawn:-	Checked:-	Authorised:-	Sheet:-
FG	TF	Approver	
Level:-	Location:-	Zone:-	Scale:-
			NTS
Drawing Number			REV.
FF-DD-TWD-BB-138-03			R00



Stop End 3D View

18mm Plywood securely fixed to the timber

3 Nos. of 4x2 Timber fixed vertically to resist concrete pressure during pouring

Fix the Timber to the panel by using two additional bolts **if required** (M16 Bolts) The stop end shall be securely fixed to the existing shutter by nailing along its full contact surface to ensure proper alignment and stability.

750mm 4x2 vertical timber on both side

Top and Bottom tie rod on the outside behind the stop end @400mm c-c

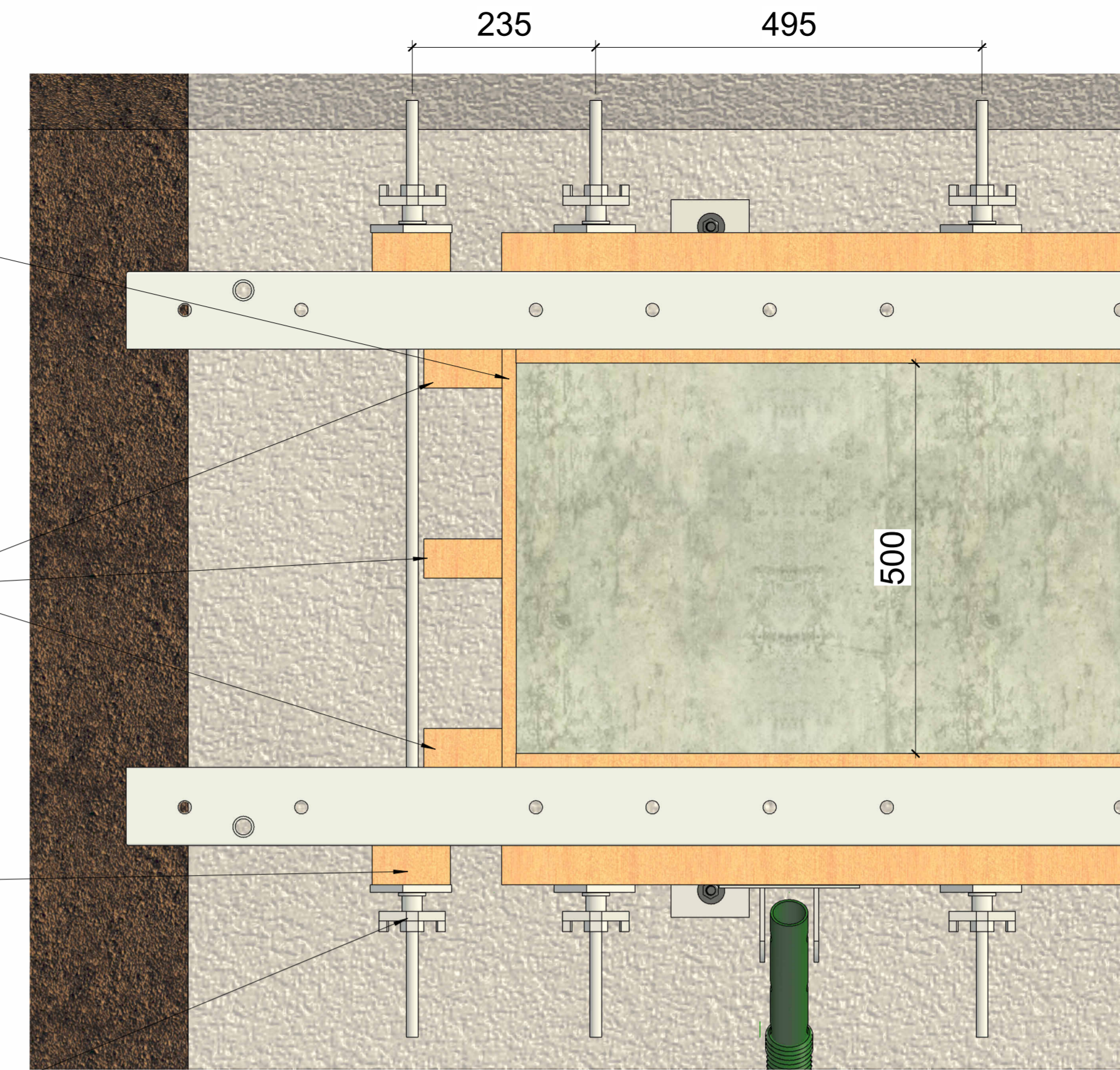
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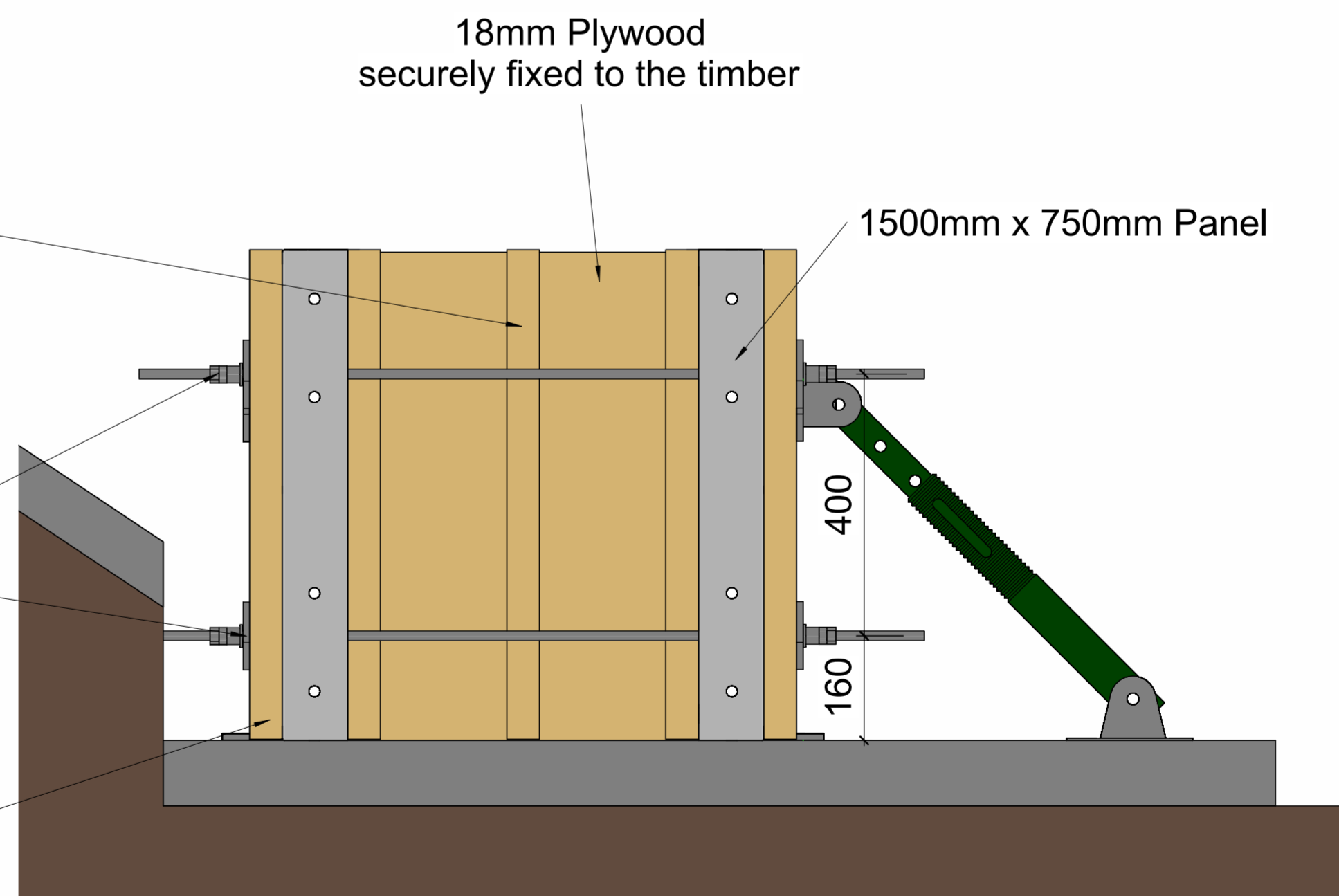
750mm 4x2 vertical timber on both side

Detail B - Stop end Detail



Stop End Detail Plan View

1 : 6



Stop End Front View

1 : 8

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Revision Schedule



Drawing title:-  
**BOTTOM BEAM**  
Mercote Hall Lane  
Formwork-Raking Beam -Detail  
2

Drawn:-	Checked:-	Authorised:-	Sheet:-
FG	TF	Approver	
Level:-	Location:-	Zone:-	Scale:-
			NTS
Drawing Number			REV.
FF-DD-TWD-BB-138-04			R00