

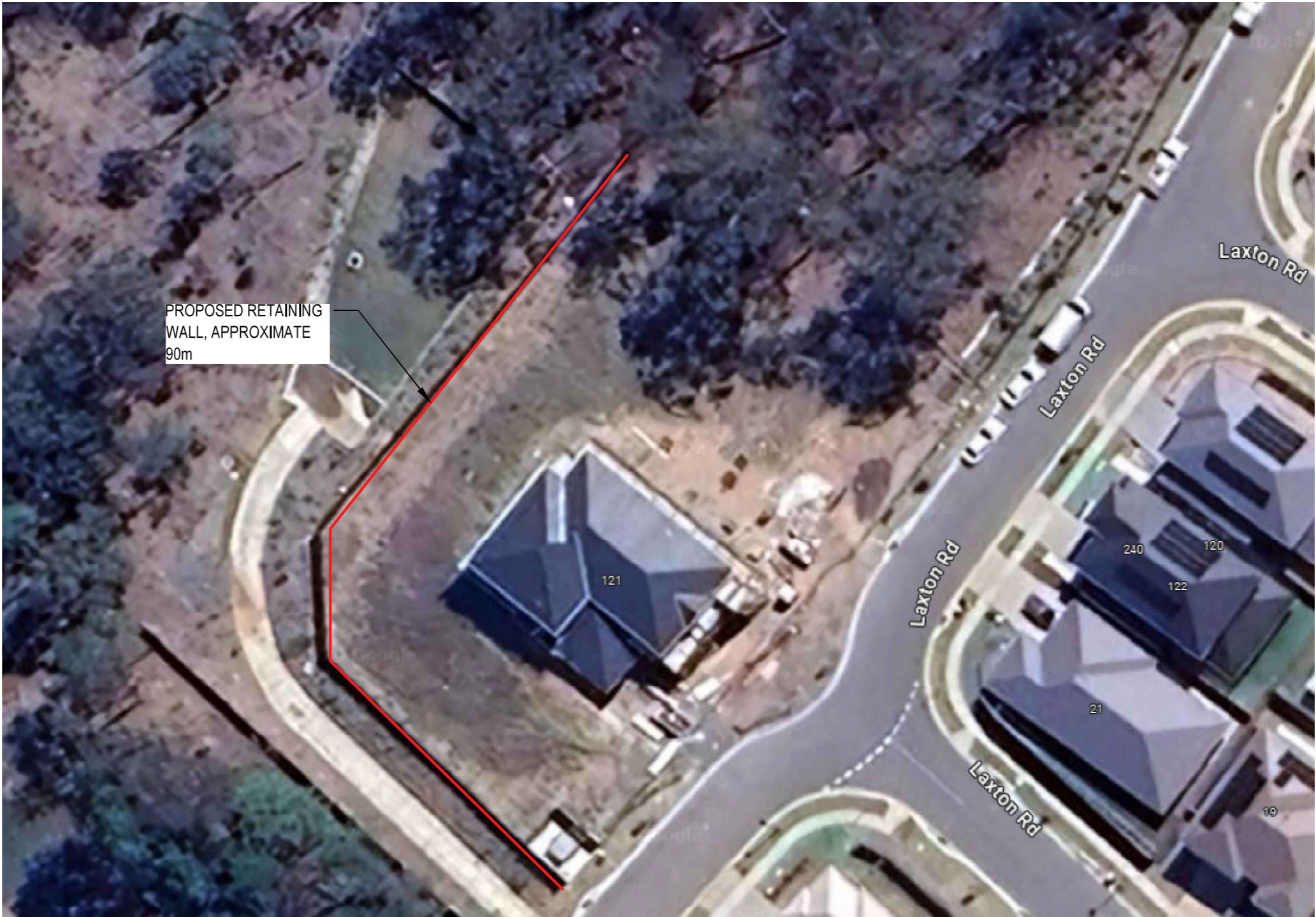


**BCC DS**  
**RECEIVED**  
 28/01/2026  
**APPLICATION REF**  
 A006885222

**GENERAL NOTES:**

1. RETAINING WALL HAS BEEN DESIGNED IN ACCORDANCE WITH SOIL TEST BY VIPER SOIL TESTING PTY LTD, REFERENCE 24MS067, DATED 20/03/2024.
2. PIERS TO BE EMBEDDED TO A MATERIAL WITH A MINIMUM BEARING CAPACITY OF 100KPa.
3. 25MPa CONCRETE GRADE (80mm SLUMP) FOR PIERS WITH MIN 75mm COVER TO STEEL.
4. ALL STEELWORK INCLUDING POSTS TO BE HOT DIP GALVANISED AFTER FABRICATION.
5. REFER TO MANUFACTURERS SPECIFICATIONS FOR SLEEPERS SPECIFICATION.
6. BUILDER TO NOT SCALE OF THIS RETAINING WALL LAYOUT. REFER TO CIVIL/LANSCAPE/STORMWATER PLAN FOR LEVELS AND EXTENT OF RETAINING WALL.
7. WATERPROOFING OF WALL AS PER WATERPROOFING SPECIALIST

**NOTE:**  
 RETAINING WALL LAYOUT IS DRAWN BASED ON CONCEPT PROVIDED BY CLIENT. CONTRACTOR TO CONFIRM THE LOCATION AND GEOMETRY PRIOR TO CONSTRUCTION. THE RETAINING WALL SHOWN ON THIS DRAWING ONLY COVERS RETAINING WALL HIGHER THAN 1000mm. REPORT TO ENGINEER IF ANY RETAINING WALL IDENTIFIED HIGHER THAN 1000mm BUT NOT SHOWN ON DRAWING.



**RETAINING WALL LAYOUT**

N.T.S

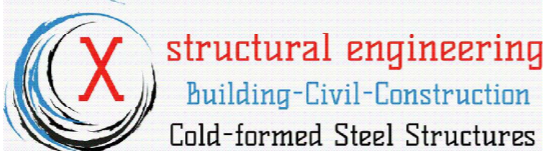
Approved by  
 XStructE Consulting  
 ABN: 69 636 712 742  
 Registered Professional Engineer  
 MIEAust | CPEng | NER  
 www.xstructe.com

1	08/04/2024	FOR CONSTRUCTION
0	04/04/2024	FOR REVIEW

ISSUE:	DATE:	REVISIONS
		ISSUED FOR CONSTRUCTION
		DRAWN: Albert.S    ENG: Bin.W
		DATE: 04/04/2024
		SCALE:                    N.T.S
		JOB No: TBC              SHEET No: 01

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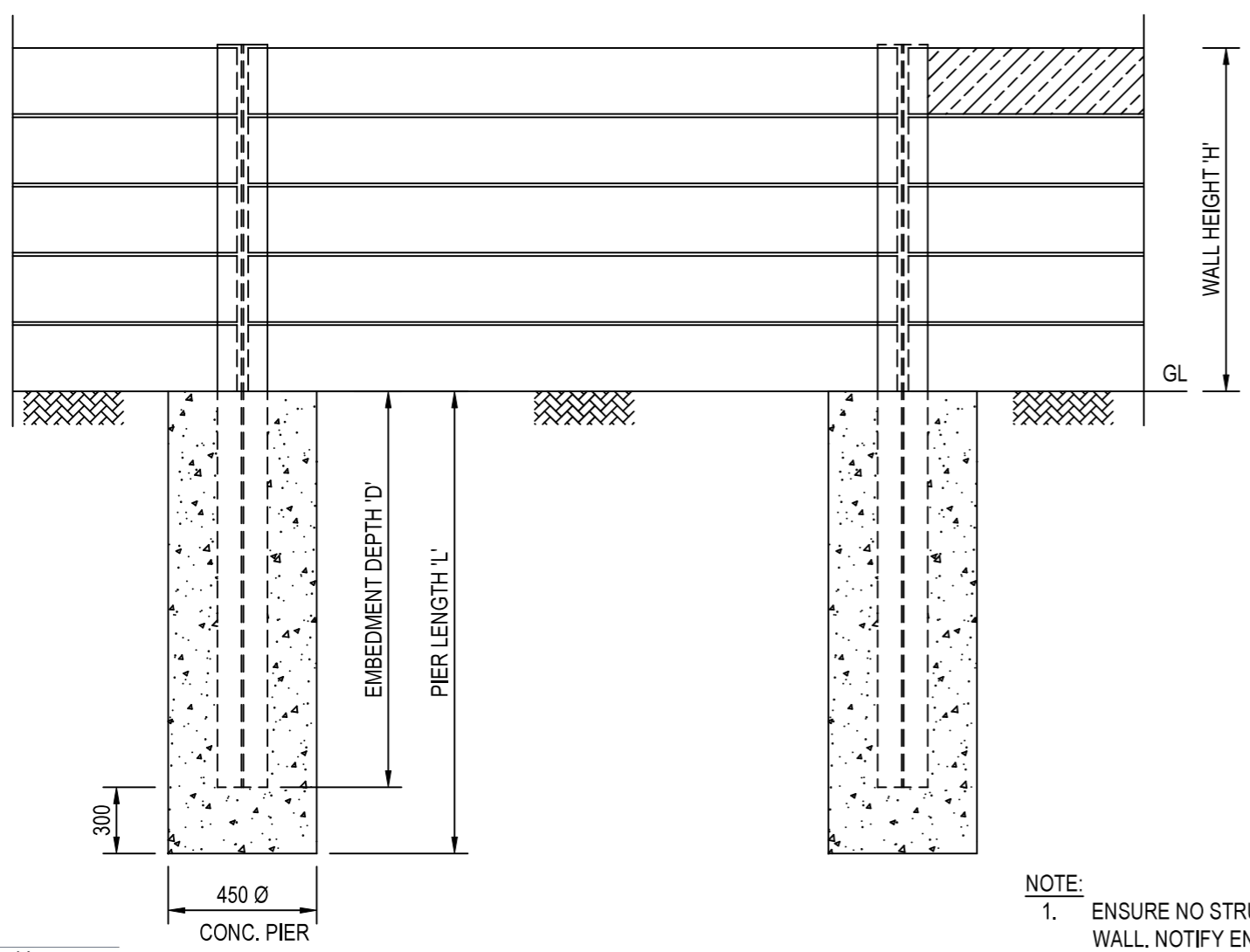
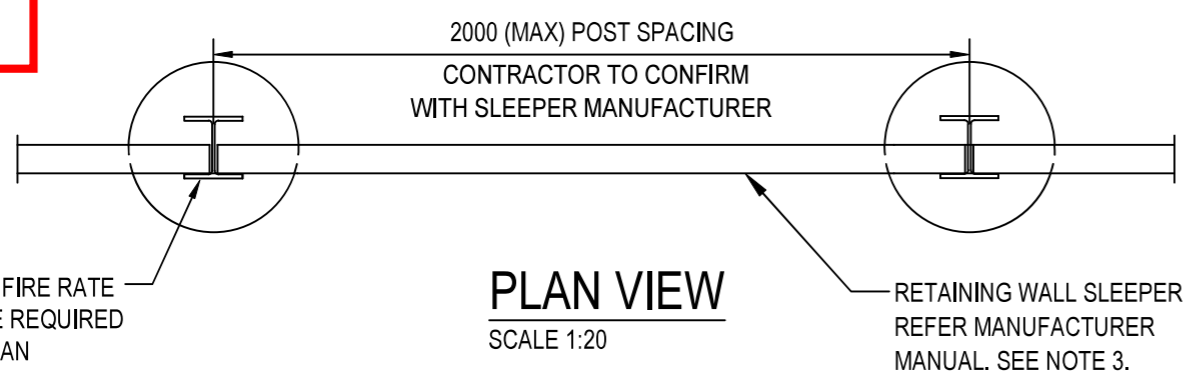
ABN: 69636712742  
 PO Box 3008, Sunnybank  
 South QLD 4109  
 P: 07 3523 7007  
 W: www.xstructe.com



CLIENT: EZZY FIT PTY LTD  
 CLIENT No: N/A  
 PROJECT:  
 LOT 49, 130 BILL WATSON WY  
 PALLARA, QLD 4110

TITLE:  
 RETAINING WALL  
 NOTES & LAYOUT

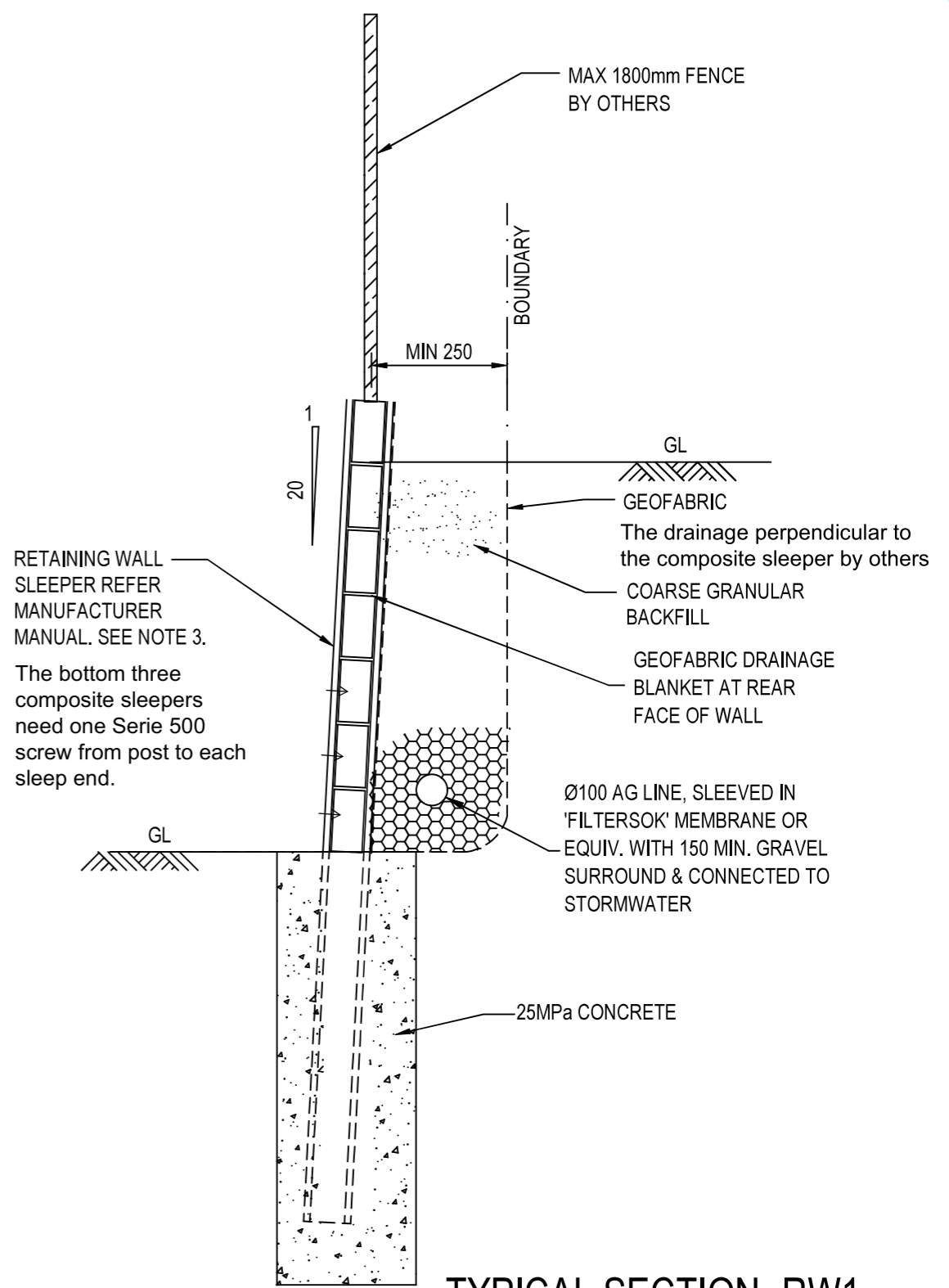
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**FRONT ELEVATION-RW1**  
 SCALE 1:20

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 Registered Professional Engineer  
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- NOTE:**
1. ENSURE NO STRUCTURES ARE PLACED WITHIN 1.5m OF RETAINING WALL. NOTIFY ENGINEER IF OTHERWISE.
  2. PROVIDE SANDY GRAVEL OR SAND BACKFILL.
  3. REFER MANUFACTURE'S MANUAL FOR SLEEPER MATERIALS SPECIFICATION AND ENGINEERING CERTIFICATE.  
 TENSILE STRENGTH: 220-250MPA    ELASTIC MODULUS: 21-27GPA  
 COMPRESSIVE STRENGTH: 250MPA    POISSON'S RATIO: 0.28



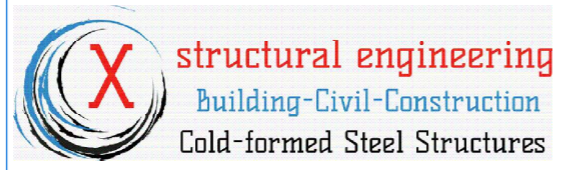
**TYPICAL SECTION-RW1**  
 SCALE 1:20

ISSUE:	DATE:	REVISIONS
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0	04/04/2024	FOR REVIEW

TITLE: <b>RETAINING WALL ELEVATION</b>	ISSUED FOR CONSTRUCTION	
	DRAWN: Albert.S	ENG: Bin.W
	DATE: 04/04/2024	
	SCALE: N.T.S	JOB No: TBC
		SHEET No: 02

**XSTRUCTE CONSULTING**  
 ABN: 69636712742  
 PO Box 3008, Sunnybank  
 South QLD 4109  
 P: 07 3523 7007  
 W: www.xstructe.com



APPROVED:

CLIENT: EZZY FIT PTY LTD  
 CLIENT No: N/A  
 PROJECT:  
 LOT 49, 130 BILL WATSON WY  
 PALLARA, QLD 4110

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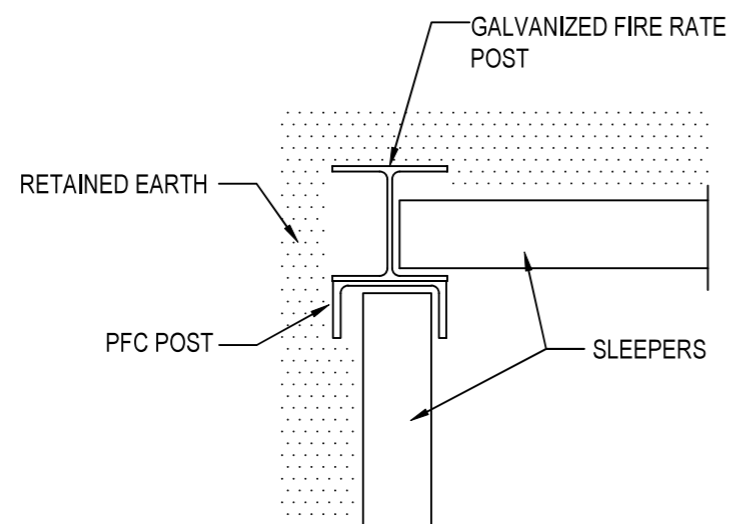
RETAINING WALL TABLE			
HEIGHT 'H' (m)	EBED'T DEPTH 'D' (m)	PIER LENGTH 'L' (m)	SUPPORT SIZE
1000 and less	1500	1800	100UC15
1001 to 1200	1700	2000	100UC15
1201 to 1400	1900	2200	100UC15
1401 to 1600	2100	2400	100UC15 * 150UC23
1601 to 1800	2300	2600	150UC23
1800 to 2000	2500	2800	150UC23
2001 to 2200	2800	3100	150UC23
2200+	REPORT TO ENGINEER **		

CONTRACTOR TO VISIT THE SITE TO CONFIRM THE RETAINING WALL HEIGHT BEFORE ORDER MATERIALS

\* 100UC15 ONLY ALLOWED WHEN THE SLEEPER LENGTH IS LESS THAN 1601mm.

\* REPORT TO ENGINEER IF RETAINING WALL HEIGHT NOT WITHIN THIS TABLE

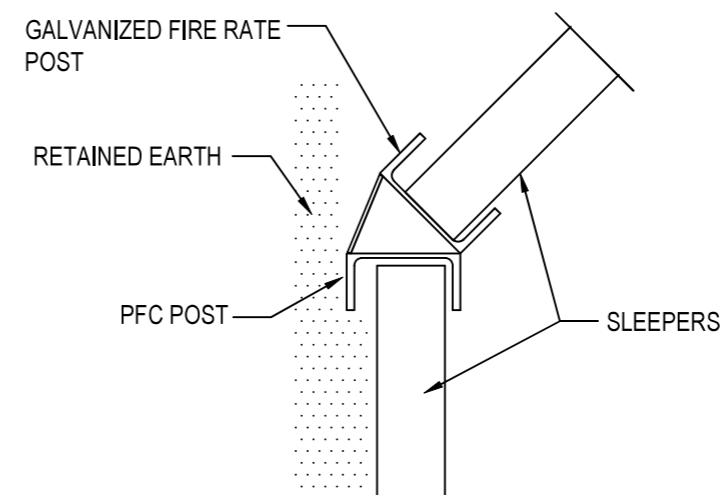
When to use 150UC, the bottom three composite sleepers need two layers.



**TYPICAL CORNER POST DETAIL**

**(IF REQUIRED)**

SCALE 1:10



**TYPICAL CORNER POST DETAIL**

**(IF REQUIRED)**

SCALE 1:10

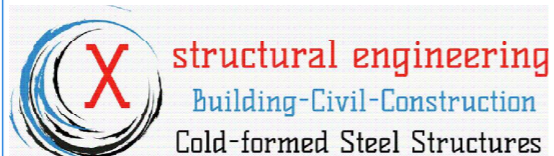
**NOTE:**

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2. PROVIDE SANDY GRAVEL OR SAND BACKFILL.

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ABN: 69636712742  
 PO Box 3008, Sunnybank  
 South QLD 4109  
 P: 07 3523 7007  
 W: www.xstructe.com



APPROVED:

CLIENT: EZZY FIT PTY LTD

CLIENT No: N/A

PROJECT:

LOT 49, 130 BILL WATSON WY  
 PALLARA, QLD 4110

TITLE:

RETAINING WALL  
 POST SCHEDULE TABLE

ISSUED FOR CONSTRUCTION

DRAWN: Albert.S    ENG: Bin.W

DATE: 04/04/2024

SCALE:                    N.T.S

JOB No: TBC              SHEET No: 03

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