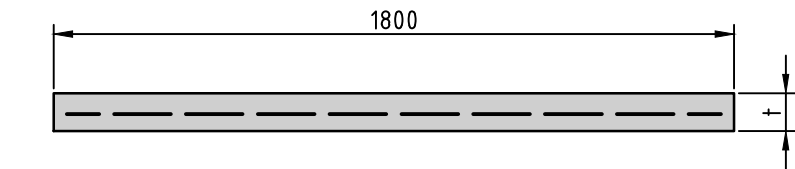
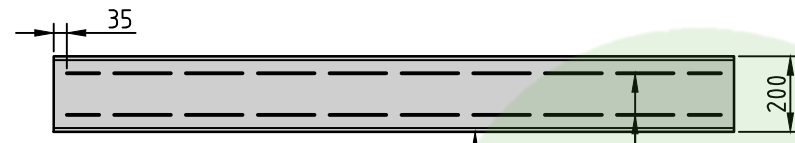


**SECTION VIEW**  
SCALE 1:10

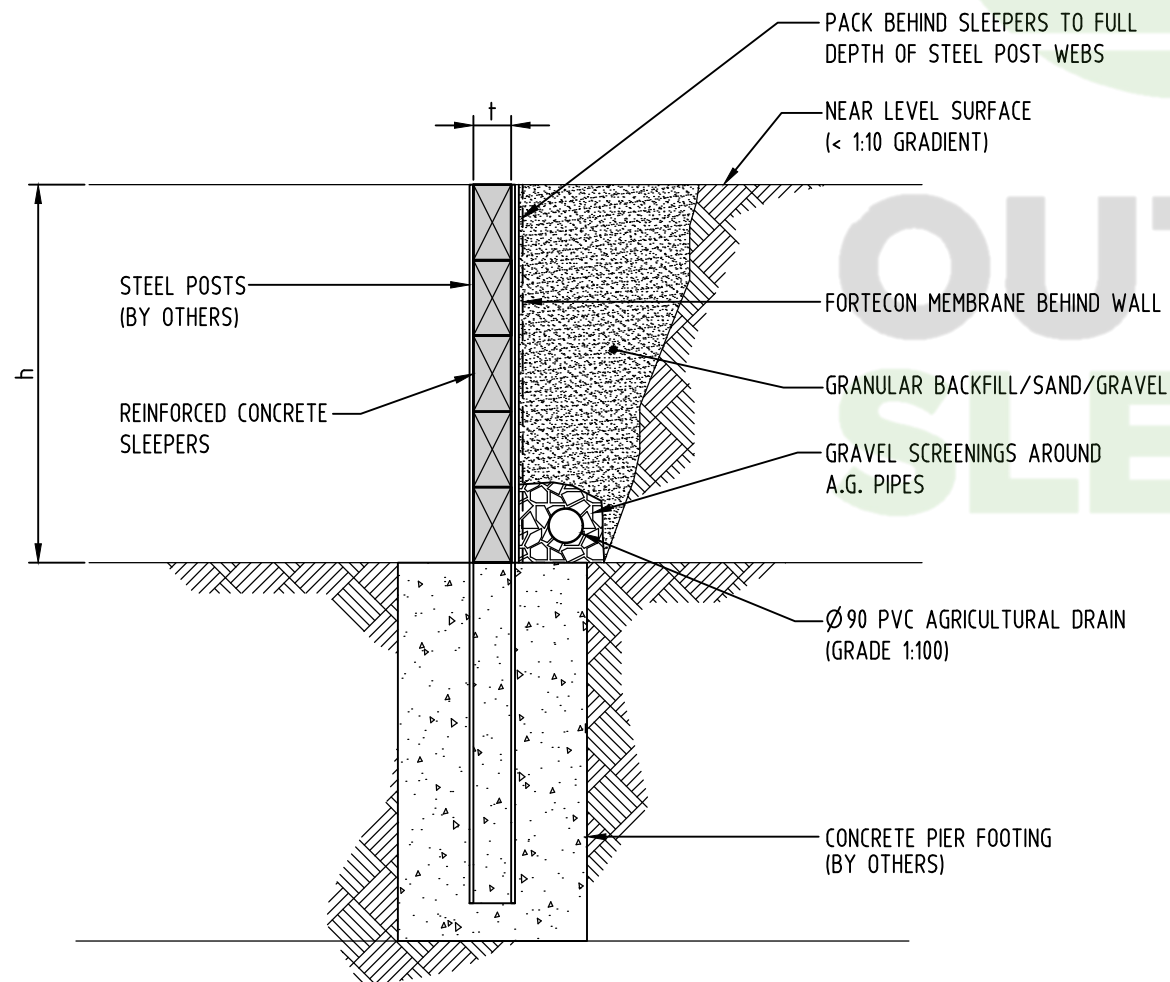
**NOTE:**  
PATTERN FACE SHALL NOT ENCROACH INTO SLEEPER MIN. THICKNESS 't'



**PLAN VIEW**  
SCALE 1:20



**ELEVATION VIEW**  
SCALE 1:20



**TYPICAL SECTION**  
SCALE 1:20

**CONSTRUCTION ISSUE**

**SPECIFICATIONS**

- SLEEPER CONCRETE GRADE TO BE N60. RIGID FORMWORK & INTENSE CONCRETE COMPACTION IN ACCORDANCE WITH AS 3600 IS REQUIRED FOR CASTING EACH SLEEPER.
- HAND COMPACTING EQUIPMENT ONLY IS PERMITTED TO BE USED ADJACENT SLEEPERS (WITHIN DISTANCE = 0.75H)
- THESE SLEEPER SPECIFICATIONS ARE ONLY SUITABLE FOR USE WITH RETAINING WALLS WHICH SATISFY THE FOLLOWING CONDITIONS/LIMITATIONS.
  - THE WALL IS NOT SUBJECT TO HEAVY SURCHARGE LOADS. FOR EXAMPLE, NEARBY EXISTING RETAINING WALLS, STRUCTURES OR BUILDINGS WITHIN A DISTANCE EQUAL TO TWO TIMES THE WALL HEIGHT.
  - THE FINAL SURFACE GRADIENT ABOVE THE WALL IS LESS THAN 1 VERTICAL RISE IN 10 HORIZONTAL.
  - SLEEPERS ARE HANDLED WITH DUE CARE DURING TRANSPORTATION & ERECTION.
- SLEEPER MINIMUM END BEARING LENGTH SHALL NOT BE LESS THAN 25mm EACH END.
- FOR DETERMINATION OF THE APPROPRIATE SLEEPER TYPE, THE HEIGHT IS MEASURED FROM THE TOP OF THE WALL TO THE APPLICABLE SLEEPER. A WALL FACE CROSS SECTION MAY CONSIST OF VARIOUS SLEEPER TYPES.

ASSUMED SOIL PROPERTIES	
$\gamma_s$	= 18kN/m <sup>3</sup>
$\phi$	= 30°
ASSUMED MAX. SURCHARGE	
Q	= 5kPa

SLEEPER LENGTH (l) = 1800mm			
WALL TYPE	WALL HEIGHT (h)	THICKNESS t (mm)	REINFORCEMENT
1.8m STD	< 2.0m	75	2-N10
1.8m HEAVY DUTY	< 3.8m	100	2-N10

REV.	DATE	DESCRIPTION	DRAFT	ENG.	CHK.
0	08.09.23	CONSTRUCTION ISSUE	AD	HB	CL
1	13.09.23	CONSTRUCTION ISSUE	AD	HB	CL
2	15.09.23	CONSTRUCTION ISSUE	AD	HB	CL
3	20.10.23	CONSTRUCTION ISSUE	JC	HB	CL

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**CONCRETE SLEEPERS**  
OUTBACK SLEEPERS AUSTRALIA P/L  
**1800mm LONG SLEEPER**  
A3  
DRAWING NUMBER  
Job Number Sheet No. Rev.  
Design Drawn  
C.LINDNER A.DOROMSON **WAD150933 S07 3**