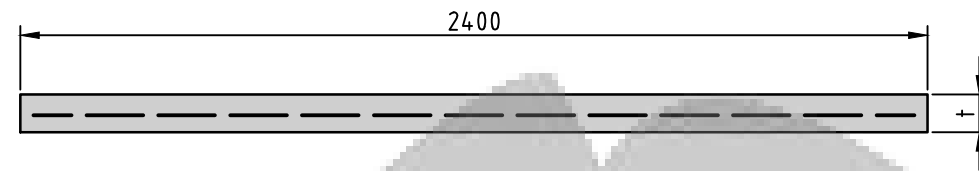


**SECTION VIEW**  
SCALE 1:10

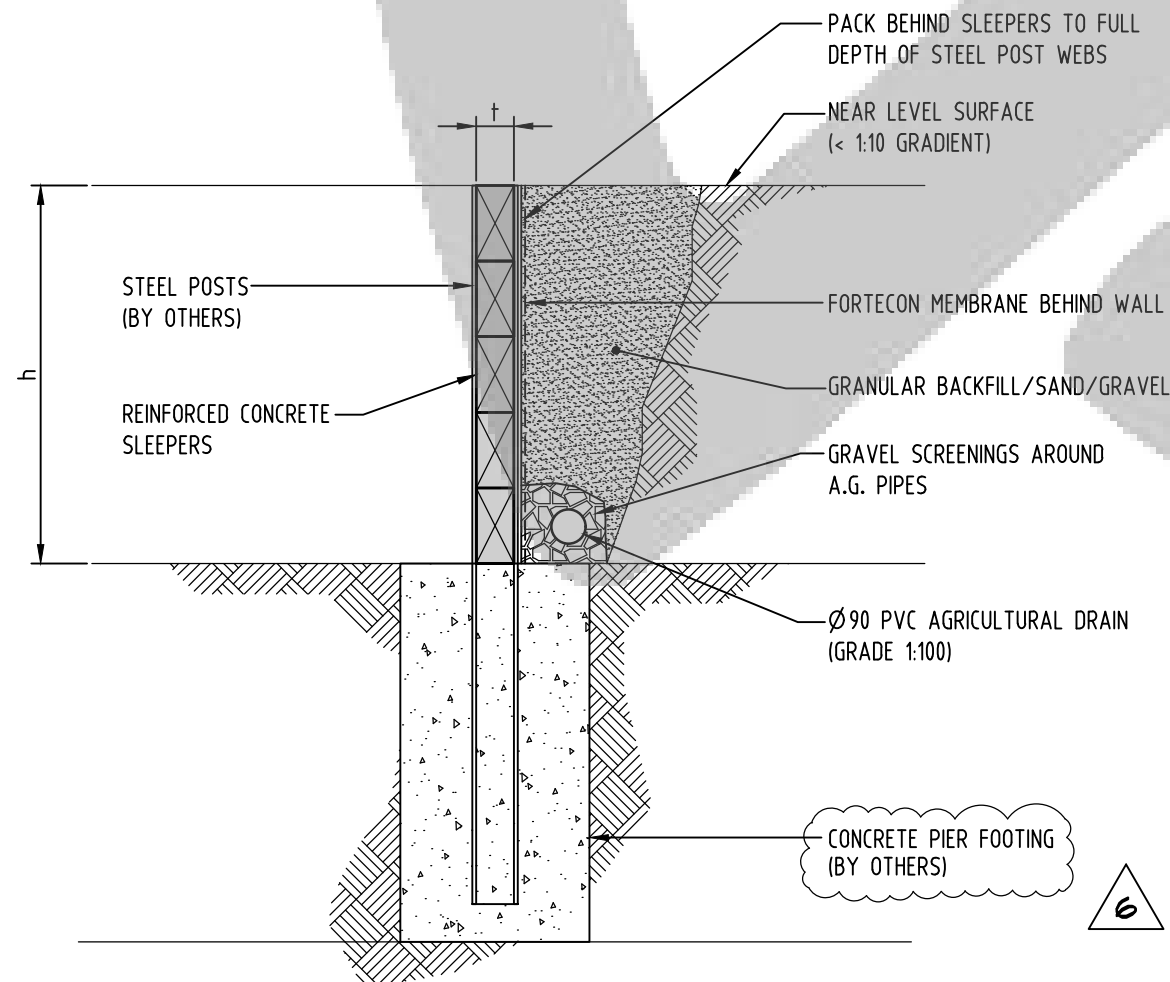
**NOTE:**  
PATTERN FACE SHALL NOT ENCROACH INTO SLEEPER MIN. THICKNESS 't'



**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) = 2400mm**

WALL TYPE	WALL HEIGHT (h)	THICKNESS t (mm)	REINFORCEMENT
2.4m (STD)	≤ 1.6m	80	2-N10
2.4m (HD) HEAVY DUTY (YELLOW)	1.6m < h ≤ 2.4m	100	2-N10
2.4m (EHD) EXTRA HEAVY DUTY (RED)	2.4m < h ≤ 4.0m	130	2-N10

REV.	DATE	DESCRIPTION	DRAFT	ENG.	CHK.
0	16.11.15	CONSTRUCTION ISSUE	MJS	NM	CL
1	17.02.16	CONSTRUCTION ISSUE	MJS	NM	CL
2	01.05.17	CONSTRUCTION ISSUE	MJS	NM	CL
3	10.05.19	CONSTRUCTION REISSUE	AA	RS	CL
4	24.05.19	CONSTRUCTION REISSUE	AA	RS	CL
5	07.05.20	CONSTRUCTION REISSUE	MJS	NM	CL
6	03.07.20	CONSTRUCTION REISSUE	AA	NM	CL

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**CONCRETE SLEEPERS**  
OUTBACK SLEEPERS AUSTRALIA P/L

**2400mm LONG SLEEPER**

**A3** DRAWING NUMBER  
Job Number Sheet No. Rev.  
Design Drawn  
C.LINDNER M.SMITH **WAD150933 S02 6**