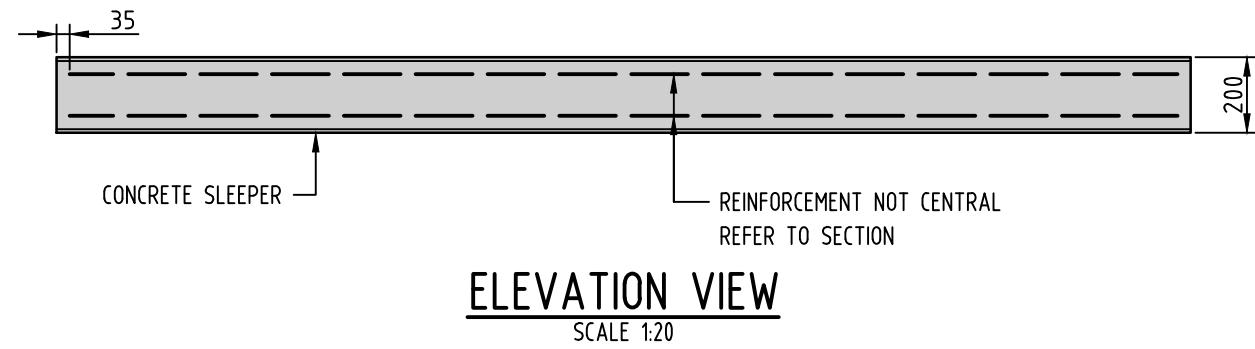


NOTE:
PATTERN FACE SHALL NOT ENCROACH INTO SLEEPER MIN. THICKNESS 't'



SPECIFICATIONS

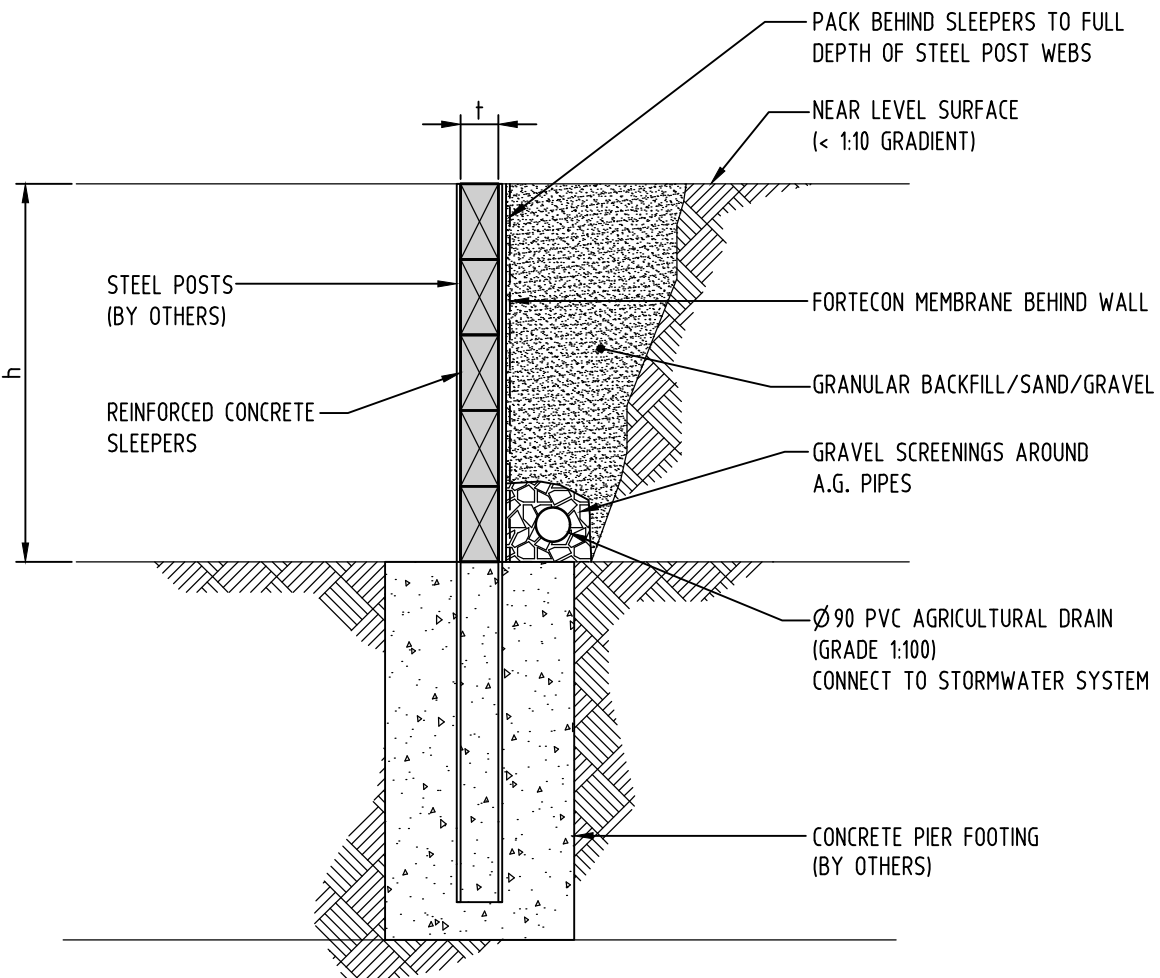
- SLEEPER CONCRETE GRADE TO BE S50. RIGID FORMWORK & INTENSE CONCRETE COMPACTION IN ACCORDANCE WITH AS 3600 IS REQUIRED FOR CASTING EACH SLEEPER.
- HAND COMPACTING EQUIPMENT ONLY IS PERMITTED TO BE USED ADJACENT SLEEPERS (WITHIN DISTANCE = 0.75H)
- THESE SLEEPER SPECIFICATIONS ARE ONLY SUITABLE FOR USE 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 LEVEL OR ONLY SLIGHT - ie. LESS THAN 1 VERTICAL RISE IN 10 HORIZONTAL.
 - THE WALL BACKFILL IS FREE DRAINING, CONSISTING OF SAND &/OR GRAVEL.
 - ALL SUB-SURFACE WATER IS DRAINED BY MEANS OF AN AGRICULTURAL DRAIN, OR OTHER SUITABLE METHOD.
 - 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

γ_s	=	18kN/m ³
ϕ	=	30°

ASSUMED MAX. SURCHARGE

Q	=	5kPa
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TYPICAL SECTION
SCALE 1:20

CONSTRUCTION ISSUE

SLEEPER LENGTH (l) = 3000mm

WALL TYPE	WALL HEIGHT (h)	THICKNESS t (mm)	REINFORCEMENT
3.0m HEAVY DUTY	≤ 2.2	110	2-N12
3.0m EXTRA HEAVY DUTY	2.2m < h ≤ 3.0m	150	2-N12

REV.	DATE	DESCRIPTION	DRAFT	ENG.	CHK.
0	24.11.17	CONSTRUCTION ISSUE	RB	NM	CL
1	09.02.21	REVISED CONSTRUCTION ISSUE	EB	HAB	CL

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CONCRETE SLEEPERS
OUTBACK SLEEPERS AUSTRALIA P/L
3000mm LONG SLEEPER
A3
DRAWING NUMBER
ADL171037 S03 1
Design: C.LINDNER
Drawn: R.BROWN