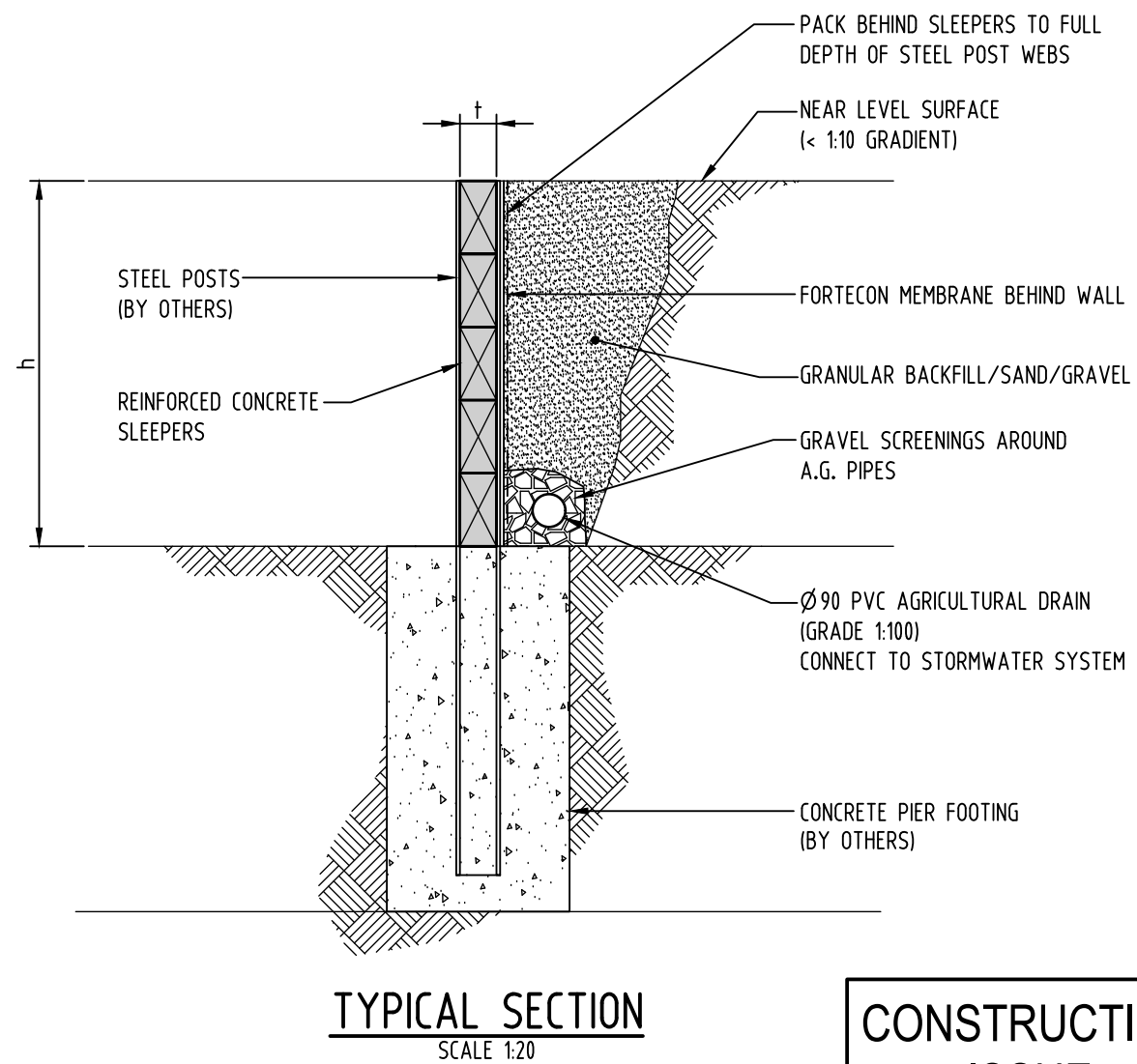


NOTE:
PATTERN FACE SHALL NOT ENCR OACH INTO SLEEPER MIN. THICKNESS 't'



CONSTRUCTION ISSUE

SPECIFICATIONS

- SLEEPER CONCRETE GRADE TO BE N40. 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

SLEEPER LENGTH (l) = 3000mm			
WALL TYPE	WALL HEIGHT (h)	THICKNESS t (mm)	REINFORCEMENT
3.0m HEAVY DUTY (YELLOW)	≤ 2.0	110	2-N12
3.0m EXTRA HEAVY DUTY (BLUE)	2.0m < h ≤ 3.0m	150	2-N12

NOTE:

- PANELS & SLEEPERS MAY BE USED TOGETHER. FOR PANEL TYPES REFER DRAWING WAD150933-S10.

REV.	DATE	DESCRIPTION	DRAFT	ENG.	CHK.
0	24.11.17	CONSTRUCTION ISSUE	RB	NM	CL

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CONCRETE SLEEPERS
OUTBACK SLEEPERS AUSTRALIA P/L

3000mm LONG SLEEPER

A3

Design: C.LINDNER
Drawn: R.BROWN

JOB NUMBER: ADL171037
DRAWING NUMBER: S03