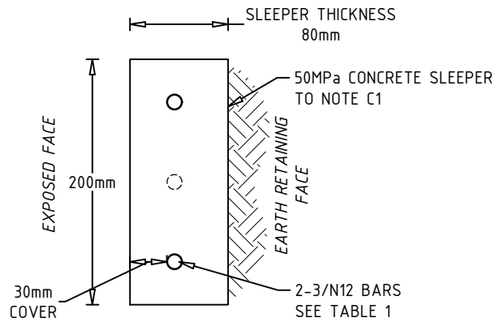
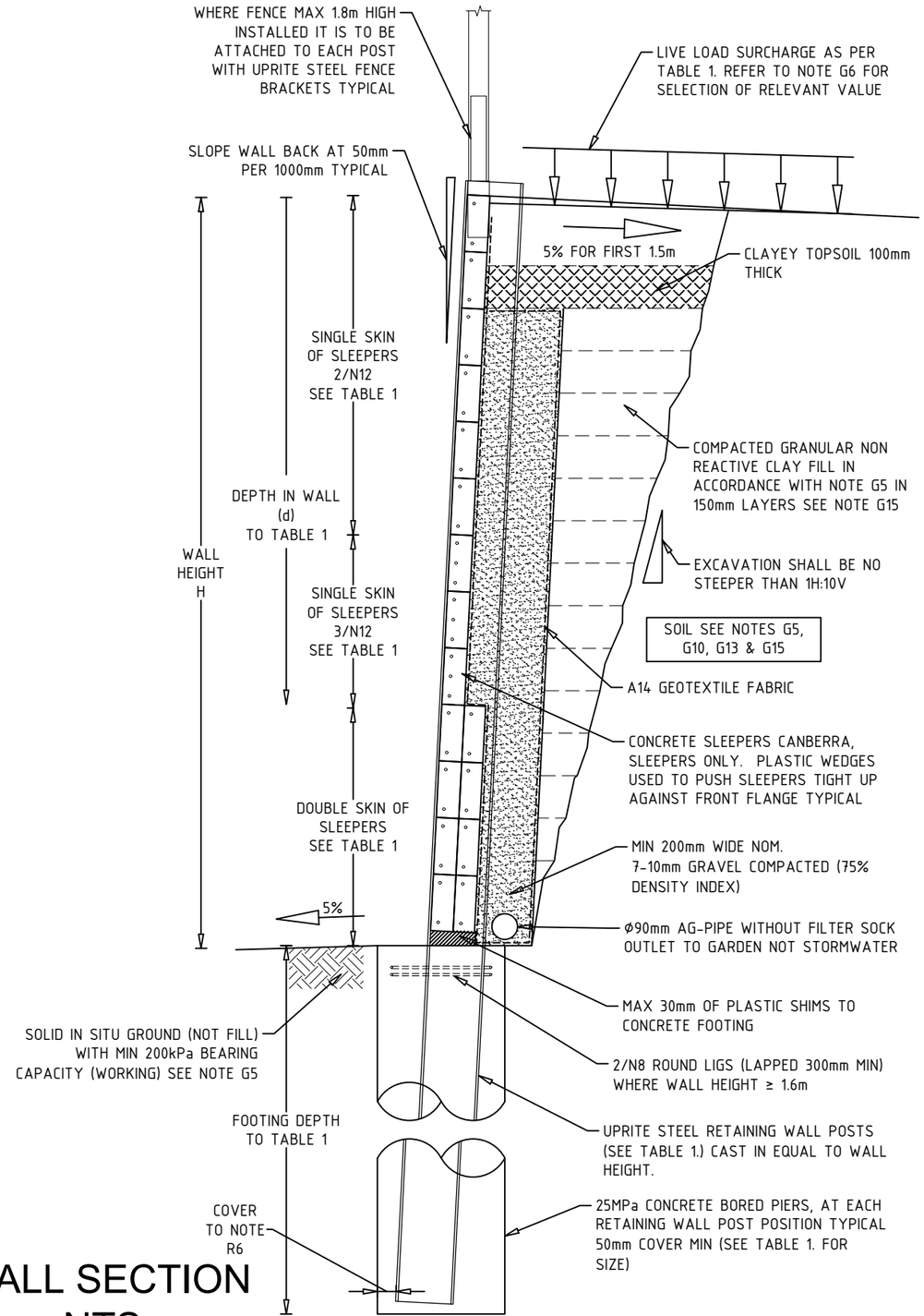
TABLE 1 - RETAINING WALL SPECS FOR 2.4m LONG SLEEPERS

Depth in wall (d) / Wall height (H) [m]	Surcharge: 0 kPa				Surcharge: 5 kPa			
	No. of skins of sleepers		min Steel post	Bored pier footing	No. of skins of sleepers		min Steel post	Bored pier footing
	80mm 2/N12	80mm 3/N12			80mm 2/N12	80mm 3/N12		
0.6	1	1	100UC14.8	Ø300 x 0.6 m	1	1	100UC14.8	Ø300 x 0.8 m
0.8	1	1	100UC14.8	Ø300 x 0.8 m	1	1	100UC14.8	Ø300 x 1 m
1	1	1	100UC14.8	Ø450 x 1 m	1	1	100UC14.8	Ø450 x 1.2 m
1.2	1	1	100UC14.8	Ø450 x 1.2 m	1	1	200UB22.4	Ø450 x 1.4 m
1.4	1	1	200UB22.4	Ø450 x 1.6 m	2	1	200UB22.4	Ø450 x 1.8 m
1.6	2	1	200UB22.4	Ø450 x 1.8 m	2	1	200UB22.4	Ø450 x 2 m
1.8	2	1	200UB22.4	Ø450 x 2 m	2	2	200UB22.4	Ø450 x 2.2 m
2	2	2	200UB22.4	Ø450 x 2.2 m	2	2	200UB22.4	Ø450 x 2.4 m
2.2	2	2	200UB22.4	Ø450 x 2.4 m**	2	2	200UB29.8	Ø450 x 2.6 m**

1. SELECT WALL HEIGHT (H) DEPENDING ON THE APPLICABLE SURCHARGE FOR THE APPLICATION. SEE NOTE G6.
2. DETERMINE DEPTH AT WHICH DOUBLE THICKNESS OF SLEEPERS ARE NEEDED FROM TABLE 1. SECOND SLEEPER TO BE min 80mm THICK WITH 2/N12 REINFORCEMENT U.N.O.
   - (**) : LEAN BORED PIER OR INCREASE DIAMETER TO PROVIDE SUFFICIENT COVER TO STEEL POST TO NOTE R6.
3. DETERMINE REQUIRED STEEL POST AND FOOTING SIZE FROM TABLE 1.



CONCRETE SLEEPER DETAIL
1:5 @ A3



WALL SECTION
NTS

THIS DRAWING MUST BE READ IN CONJUNCTION WITH DRAWING S01 ISSUED ON 27/07/2022

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PROJECT
2.4m CONCRETE SLEEPER EARTH RETAINING WALL, STANDARD DESIGN

TITLE
CROSS SECTION AND DETAILS

DESIGN	DRAWN	DATE	DRG NO.
LC/FC	FC/LA	27-07-2022	**S02**