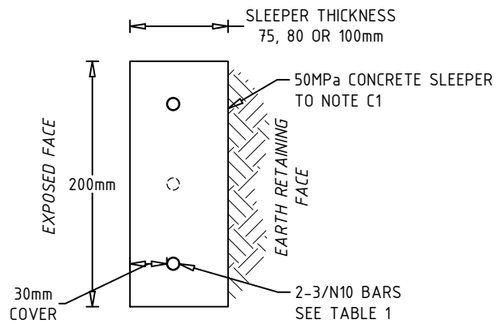
TABLE 1 - RETAINING WALL SPECS FOR 1.8m LONG SLEEPERS

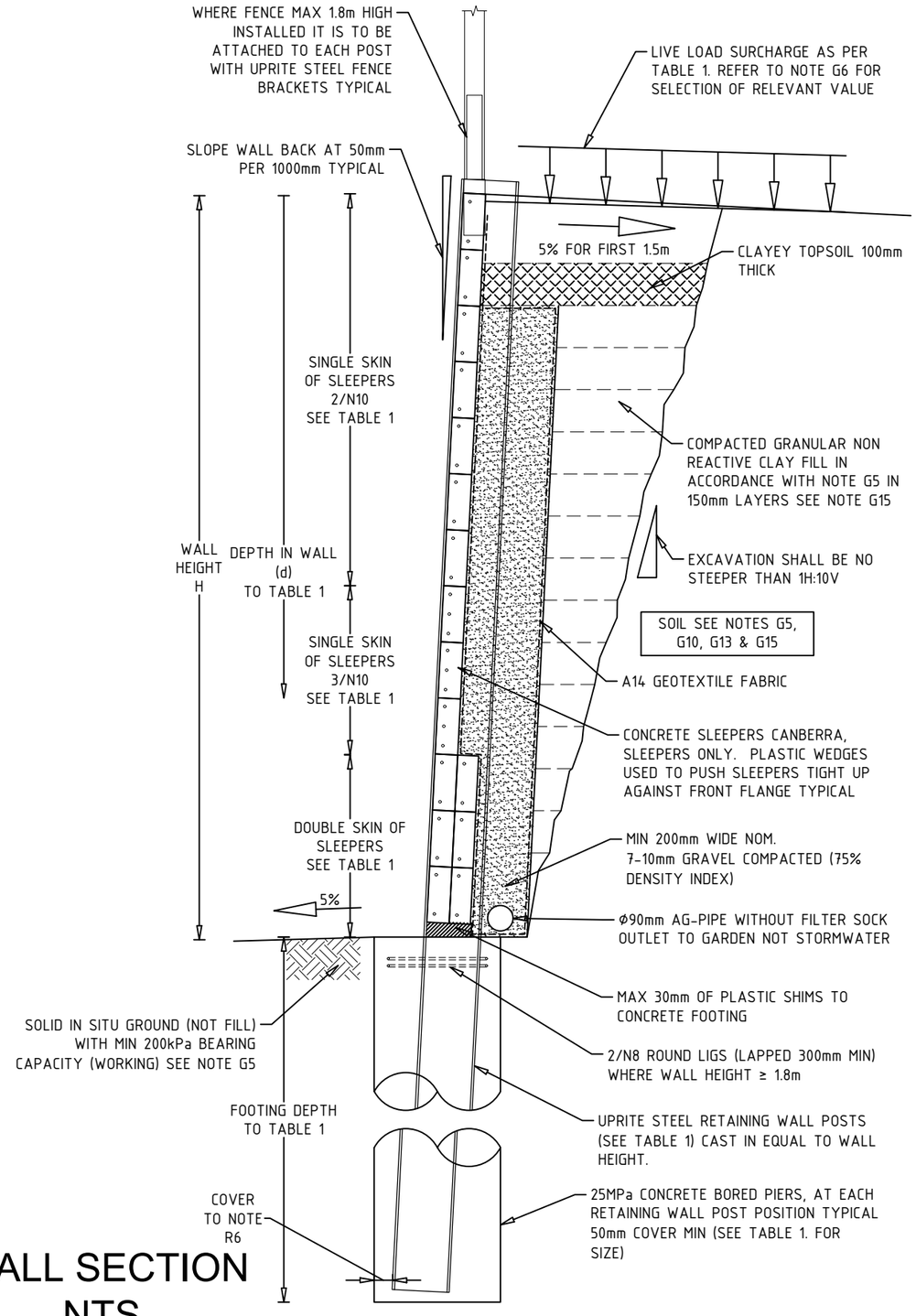
Depth in wall (d) / Wall height (H) [m]	Surcharge: 0 kPa					Surcharge: 5 kPa				
	No. of skins of sleepers			min Steel post	Bored pier footing	No. of skins of sleepers			min Steel post	Bored pier footing
	75mm	80mm	100mm			75mm	80mm	100mm		
0.6	1	1	1	100UC14.8	Ø300 x 0.6m	1	1	1	100UC14.8	Ø300 x 0.6m
0.8	1	1	1	100UC14.8	Ø300 x 0.8m	1	1	1	100UC14.8	Ø300 x 0.8m
1	1	1	1	100UC14.8	Ø300 x 1 m	1	1	1	100UC14.8	Ø300 x 1.0m
1.2	1	1	1	100UC14.8	Ø300 x 1.2 m	1	1	1	100UC14.8	Ø450 x 1.2m
1.4	1	1	1	100UC14.8	Ø450 x 1.4 m	1*	1	1	100UC14.8	Ø450 x 1.4m
1.6	1*	1	1	200UB22.4	Ø450 x 1.6 m	1*	1*	1	200UB22.4	Ø450 x 1.6 m
1.8	1*	1	1	200UB22.4	Ø450 x 1.8 m	2	1*	1	200UB22.4	Ø450 x 1.8 m
2	2	1*	1	200UB22.4	Ø450 x 2 m	2	1*	1	200UB22.4	Ø450 x 2 m
2.2	2	1*	1	200UB22.4	Ø450 x 2.2 m	2	2	1	200UB22.4	Ø450 x 2.2 m
2.4	2	1*	1	200UB22.4	Ø450 x 2.4 m**	2	2	1	200UB29.8	Ø450 x 2.4 m**
2.6	2	2	1	200UB29.8	Ø450 x 2.6 m**	2	2	1	200UC46.2	Ø450 x 2.6 m**
2.8	2	2	1	200UC46.2	Ø450 x 2.8 m**	2	2	1*	200UC46.2	Ø450 x 2.8 m**
3	2	2	1*	200UC46.2	Ø450 x 3 m**	2	2	1*	200UC46.2	Ø450 x 3 m**

1. SELECT WALL HEIGHT (H) AND TYPE OF SLEEPER (75, 80 OR 100mm THICK) DEPENDING ON THE APPLICABLE SURCHARGE FOR THE APPLICATION. SEE NOTE G6.
2. DETERMINE DEPTH AT WHICH SLEEPERS WITH 3/N10 BARS OR DOUBLE THICKNESS OF SLEEPERS ARE NEEDED FROM TABLE 1. SECOND SLEEPER TO BE min 75mm THICK WITH 2/N10 REINFORCEMENT U.N.O.. SEE KEY BELOW.
   - 1* : SLEEPER WITH 3/N10 REINFORCEMENT REQUIRED.
   - (**) : 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

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



WALL SECTION
NTS

SUPPLIER	SUPPLIER	PROJECT	TITLE
CONCRETE SLEEPERS CANBERRA 11 SAWMILL CIRCUIT HUME ACT 2620 PH:(02) 6260 2270 hume@sleepers.net.au	**UPRITE STEEL** 11 SAWMILL CIRCUIT HUME ACT 2620 PH:(02) 6260 2270 trent@upritesteel.com.au	**1.8m CONCRETE SLEEPER EARTH RETAINING WALL, STANDARD DESIGN**	**CROSS SECTION AND DETAILS**

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