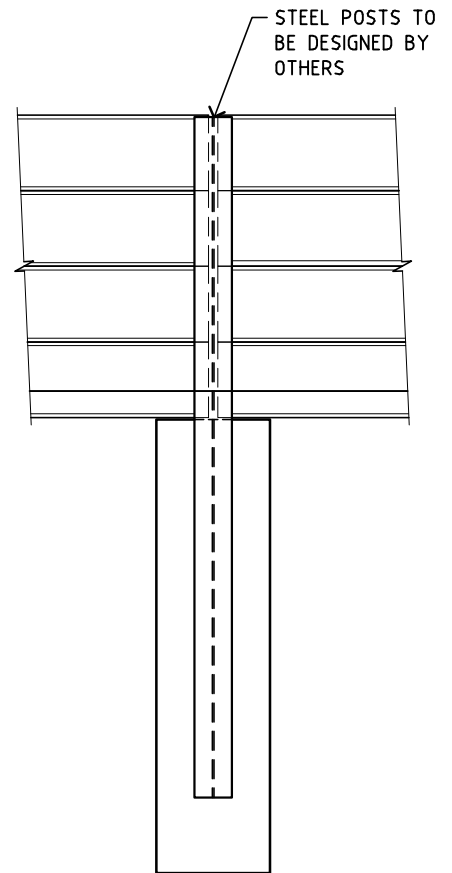
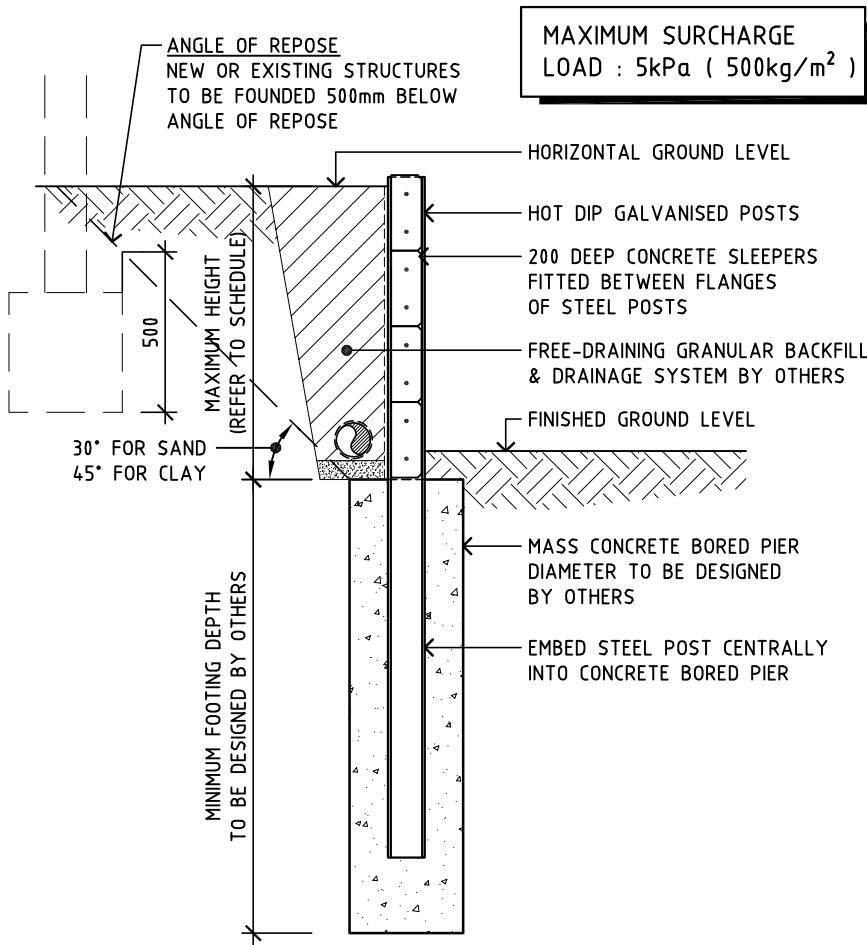
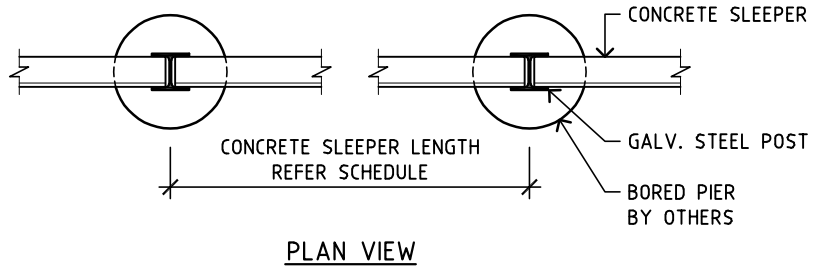


**SLEEPERS  
D I R E C T**

CONCRETE SLEEPER DIMENSIONS (mm)		MAX RETAINING WALL HEIGHT (mm)
LENGTH		
1200	200 x 80	3000
1500	200 x 80	2600
	200 x 100	3000
1800	200 x 80	1800
	200 x 100	2700
2000	200 x 80	1600
	200 x 100	2600
2400	200 x 80	1000
	200 x 100	2100



## TYPICAL SLEEPER RETAINING WALL SCHEMATIC DIAGRAM

SCALE = 1:20 @ A4

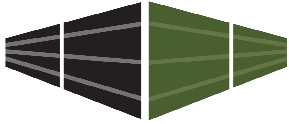
### SPECIFICATIONS FOR CONCRETE SLEEPERS

- CONCRETE COMPRESSIVE STRENGTH = 40 MPa
- STEEL REINFORCEMENT = 2No. N12 BARS PLACED CENTRALLY, 30 COVER
- ALL SLEEPERS ARE MECHANICALLY VIBRATED DURING PLACEMENT OF CONCRETE AND STEEL
- SURCHARGE LOAD ASSUMED TO BE 5kPa
- SLOPE AT TOP OF WALL ASSUMED TO BE ZERO
- NO HYDROSTATIC PRESSURE
- ALL NEW OR EXISTING STRUCTURES TO BE 500mm BELOW ANGLE OF REPOSE

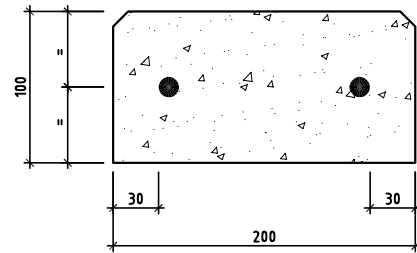
DRAWING No.

**10124C - S1**

DATE **MAR 2018**

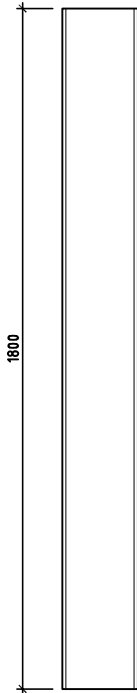


**SLEEPERS**  
D I R E C T

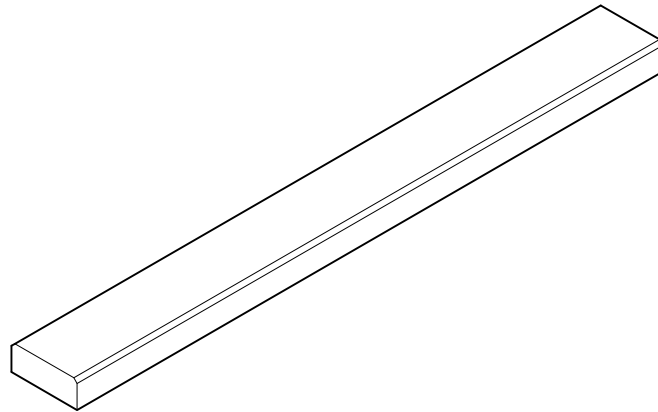


TYPICAL SECTION

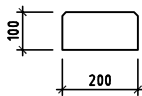
SCALE = 1:5 @ A4



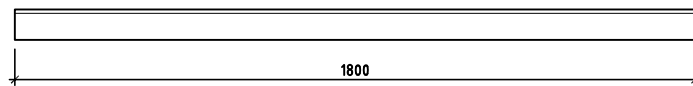
TOP



ISOMETRIC



FRONT



SIDE

**1800mm LONG x 200mm WIDE x 100mm THICK CONCRETE SLEEPER**

SCALE = 1:20 @ A4

**MAX RETAINING HEIGHT - 2700mm**

SPECIFICATIONS FOR CONCRETE SLEEPERS

- CONCRETE COMPRESSIVE STRENGTH = 40 MPa
- STEEL REINFORCEMENT = 2No. N12 BARS PLACED CENTRALLY, 30 COVER
- ALL SLEEPERS ARE MECHANICALLY VIBRATED DURING PLACEMENT OF CONCRETE AND STEEL
- SURCHARGE LOAD ASSUMED TO BE 5kPa
- SLOPE AT TOP OF WALL ASSUMED TO BE ZERO
- NO HYDROSTATIC PRESSURE
- ALL NEW OR EXISTING STRUCTURES TO BE 500mm BELOW ANGLE OF REPOSE

DRAWING No.

**10124C - S2**

DATE **MAR 2018**