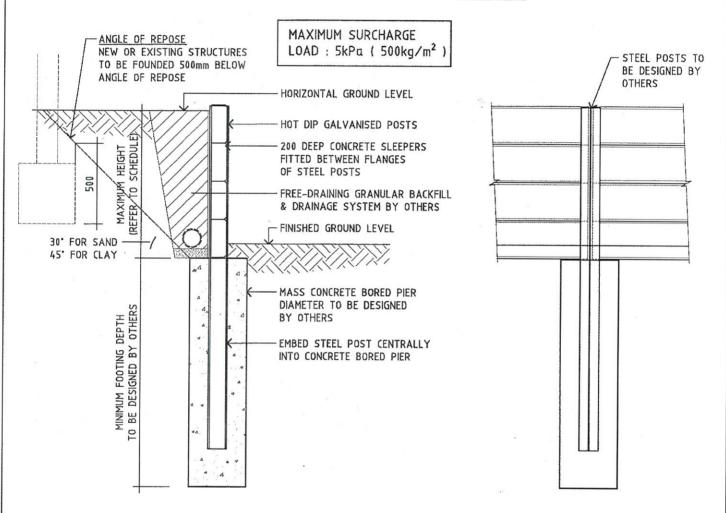


PLAN VIEW



SECTION VIEW

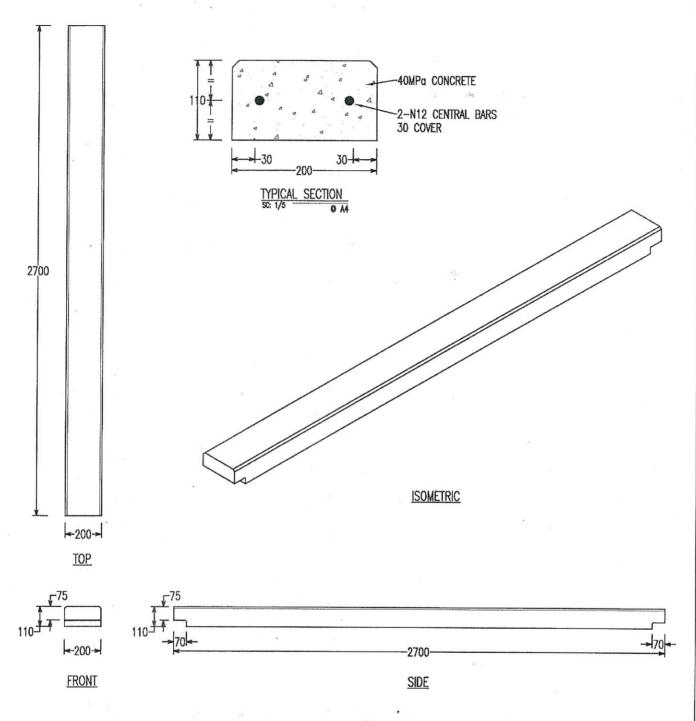
FRONT VIEW

TYPICAL SLEEPER RETAINING WALL SCHEMATIC DIAGRAM

- CONCRETE STRENGTH f'c = 40MPa
- STEEL REINFORCEMENT = 2-N12 BARS CENTRAL, 30 COVER
- SURCHARGE LOAD ASSUMED TO BE 5kPg MAXIMUM
- SLOPE AT TOP OF WALL ASSUMED TO BE ZERO
- NO HYDROSTATIC PRESSURE
- SOIL DENSITY ASSUMED TO BE 20kN/m3 6.
- ALL SLEEPERS ARE MECHANICALLY VIBRATED DURING PLACEMENT OF CONCRETE AND STEEL

LES KR	OENERT & ASSOCIATES PTY LTD	REV	C	
	G STRUCTURAL AND CIVIL ENGINEERS ABN 55 006 235 365	REV	В	
4 COLLINS		REV	A	
PROJECT	NEW CONCRETE SLEEPERS	Ref.		19-423AS
NAME	SLEEPERS DIRECT	Drg.	No.	02
ADDRESS	VARIOUS	Date		25/03/2020



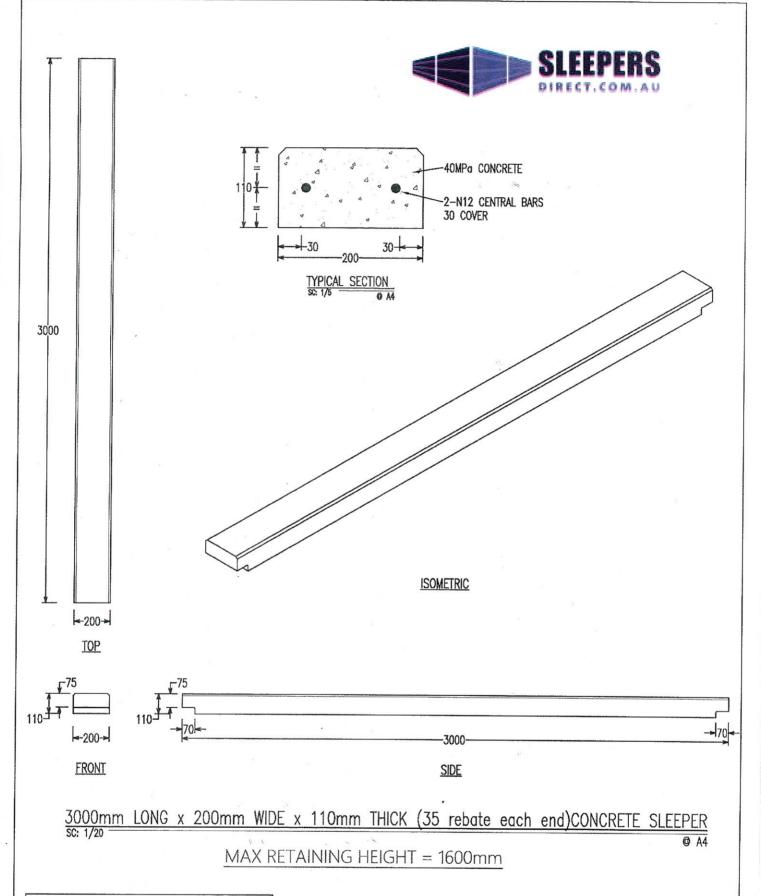


2700mm LONG x 200mm WIDE x 110mm THICK (35 rebate each end)CONCRETE SLEEPER

MAX RETAINING HEIGHT = 2000mm

- CONCRETE STRENGTH f'c = 40MPa
- STEEL REINFORCEMENT = 2-N12 BARS CENTRAL, 30 COVER
- SURCHARGE LOAD ASSUMED TO BE 5kPg MAXIMUM SLOPE AT TOP OF WALL ASSUMED TO BE ZERO
- NO HYDROSTATIC PRESSURE
- SOIL DENSITY ASSUMED TO BE 20kN/m3
- ALL SLEEPERS ARE MECHANICALLY VIBRATED DURING PLACEMENT OF CONCRETE AND STEEL

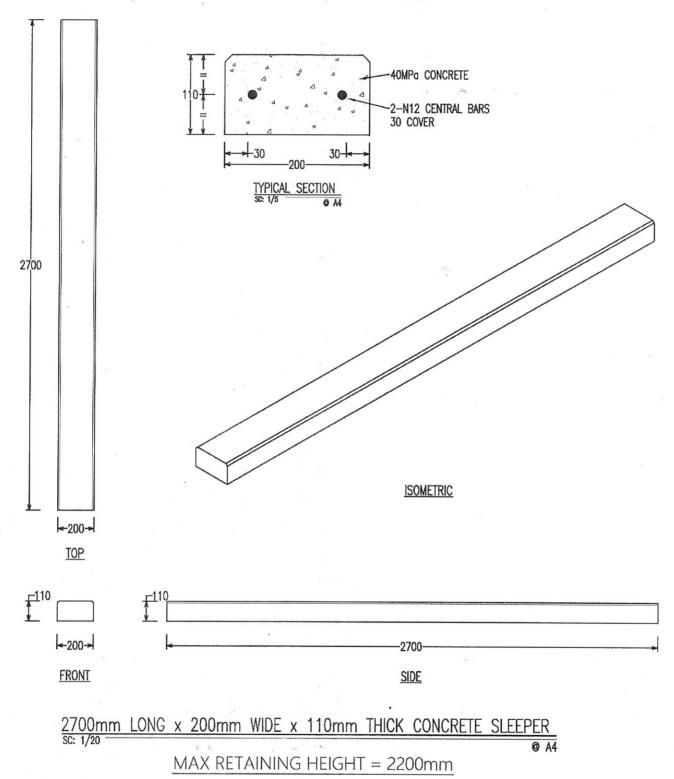
LES KR	OENERT & ASSOCIATES PTY LTD	REV	C	
	STRUCTURAL AND CIVIL ENGINEERS ABN 55 006 235 365	REV	В	
4 COLLINS		REV	A	
PROJECT	NEW CONCRETE SLEEPERS	Ref.		19-423AS
NAME	SLEEPERS DIRECT	Drg.	No.	03
ADDRESS	VARIOUS	Date		25/03/2020



- CONCRETE STRENGTH f'c = 40MPa
- STEEL REINFORCEMENT = 2-N12 BARS CENTRAL, 30 COVER SURCHARGE LOAD ASSUMED TO BE 5kPa MAXIMUM
- SLOPE AT TOP OF WALL ASSUMED TO BE ZERO NO HYDROSTATIC PRESSURE
- SOIL DENSITY ASSUMED TO BE 20kN/m3
- ALL SLEEPERS ARE MECHANICALLY VIBRATED DURING PLACEMENT OF CONCRETE AND STEEL

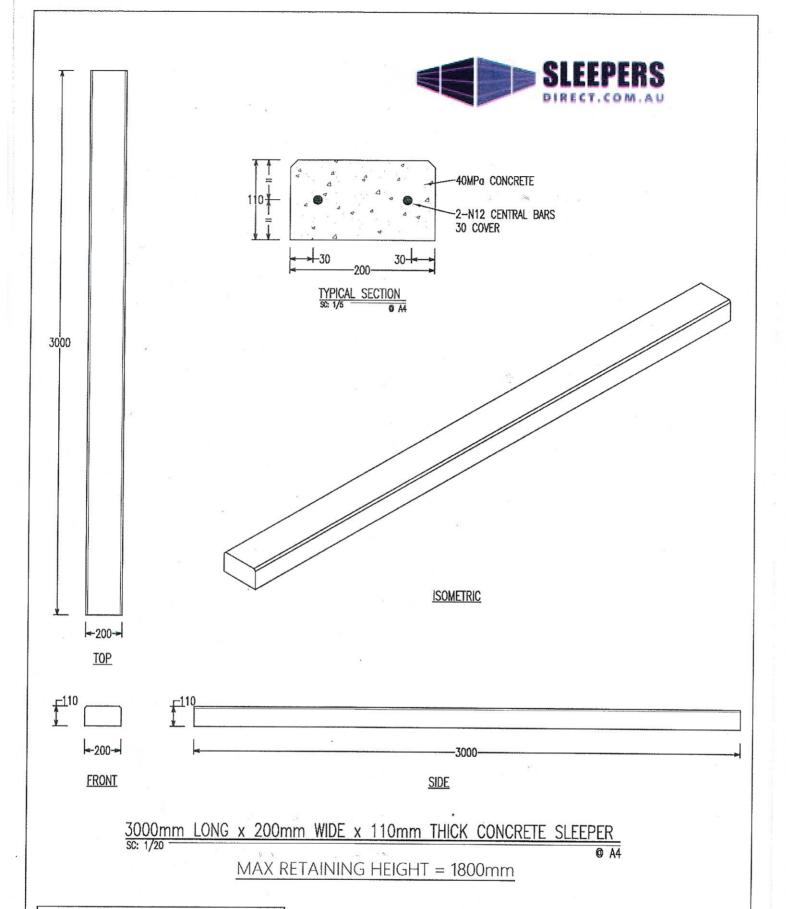
LES KROENERT & ASSOCIATES PTY LTD		REV	C	
CONSULTING STRUCTURAL AND CIVIL ENGINEERS ABN 55 006	235 365	REV	В	
4 COLLINS PL KILSYTH 3137 9723 0300		REV	A	
PROJECT NEW CONCRETE SLEEPERS		Ref.		19-423AS
NAME SLEEPERS DIRECT		Drg.	No.	04
ADDRESS VARIOUS		Date		25/03/2020





- 1. CONCRETE STRENGTH f'c = 40MPa
- 2. STEEL REINFORCEMENT = 2-N12 BARS CENTRAL, 30 COVER
- 3. SURCHARGE LOAD ASSUMED TO BE 5kPg MAXIMUM
- 4. SLOPE AT TOP OF WALL ASSUMED TO BE ZERO
- 5. NO HYDROSTATIC PRESSURE
- 6. SOIL DENSITY ASSUMED TO BE 20kH/m^3
- 3. ALL SLEEPERS ARE MECHANICALLY VIBRATED DURING PLACEMENT OF CONCRETE AND STEEL

LES KROENERT & ASSOCIATES PTY LTD		REV	C	
CONSULTING STRUCTURAL AND CIVIL ENGINEERS ABN 55 006	235 365	REV	8	
4 COLLINS PL KILSYTH 3137 9723 0300		REV	A	
PROJECT NEW CONCRETE SLEEPERS		Ref.		19-423AS
NAME SLEEPERS DIRECT		Drg.	٧o.	05
ADDRESS VARIOUS		Date		25/03/2020



- CONCRETE STRENGTH f'c = 40MPa
- STEEL REINFORCEMENT = 2-N12 BARS CENTRAL, 30 COVER SURCHARGE LOAD ASSUMED TO BE 5KPd MAXIMUM SLOPE AT TOP OF WALL ASSUMED TO BE ZERO NO HYDROSTATIC PRESSURE TO BE ZERO

- SOIL DENSITY ASSUMED TO BE 20kN/m3
- ALL SLEEPERS ARE MECHANICALLY VIBRATED DURING PLACEMENT OF CONCRETE AND STEEL

-	LES KRO	DENERT & ASSOCIATES PTY LTD	REV	C	
1			REV	В	
L	4 COLLINS P	L KILSYTH 3137 9723 0300	REV	A	
1	PROJECT	NEW CONCRETE SLEEPERS	Ref.		19-423AS
1	NAME	SLEEPERS DIRECT	Drg.	No.	06
	ADDRESS	VARIOUS	Date		25/03/2020