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		PI
- RETAINED SIDE		

SECTION VIEW

30mm COVER TO BAR

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40



PROJECT:

CONCRETE SLEEPER DESIGN

## OR ALSO 2/N10 USING 60MPa CONCRET EITHER: 2/N10, 2/10mm TYPE B GFRP (60GPa)

## TYPICAL SLEEPER RETAINING WALL DETAIL

SLEEPER SIZE =3000 LONG X 200mm DEEP								
WALL TYPE	THICKNESS (t)	REINFORCEMENT	SOIL RETAINED (H) 5KPa	SOIL RETAINED (H) 10KPa				
3000-77-A	77mm	TYPE A	0.8m	0.5m				
3000-100-A	100mm	TYPE A	2.5m	2.0m				
3000-120-A	120mm	TYPE A	3.5m	3.0m				
3000-77-B	77mm	TYPE B	0.5m	0.2m				
3000-100-В	100mm	TYPE B	1.5m	1.3m				
3000-120-В	120mm	TYPE B	2.5m	2.0m				



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SOIL DENSITY (kN/m^3)

INTERNAL FRICTION ANGLE

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ASSUMED SOIL PROPERTIES

18

0.35

30 DEGREE

CONCRETE SLEEPER RETAINING WALL (3000 LONG)

FOR CONSTRUCTION

					3000  2980					10	
				<u>Plan</u>	VIE	M		-			T
30, 						· ·		/ c	Reinforce Central. F Section 		I
			[	ELEVAT	<u>ion '</u>	<u>view</u>					
		<b></b>									
	SPECIFICATIONS:										
1. SLEEPER CONCRETE GRADE TO BE SLEEPER REQUIRES RIGID FORMWO COMPACTION IN ACCORDANCE WIT						RMWORK AN	ID CO				
		2.	SU		R USE	WITH	RETA	FICATIONS A INING WALL DITIONS:			
60GP RETE	<i>'</i>	- THE WALL IS NOT SUBJECT TO HEAVY SURCHARGE LOADS, THE SURCHARGE LOADS THAT INCLUDED IN THE CALCULATION IS 5kPA or 10 kPa							нıs		
		- THE FINAL SURFACE GRADIENT ABOVE THE WALL IS LEVEL OR ONLY SLIGHT (LESS THAN 1 VERTICAL RISE IN 10 HORIZONTAL)						IN			
ED (ŀ	H)	- THE WALLS BACKFILL IS FREE DRAINING CONSISTING OF SAND &/OR GRAVEL						OF			
	- ALL SUB-SURFACE WATER IS DRAINED BY MEANS OF AN AGRICULTURAL DRAIN, OR OTHER SUITABLE METHOD.										
		- SLEEPERS ARE HANDLED WITH DUE CARE DURING TRANSPORTATION AND ERECTION									
		-		EEPER MIN SS THAN 2				NG LENGTH	SHALI	L NOT	BE
	CLIENT: SU	JNSET SLEI	EPERS				REVISION	AMENDED DESCRIF	TION	DRAWN BY	DATE
ŀ	JOB No: 21	09031		DRAWING No:	S104		A B C	FOR CONSTRUCTION FOR CONSTRUCTION FOR CONSTRUCTION		B.E. B.E. B.E.	08.09.21 16.05.22 23.05.22
ŀ	SCALE:										