



DESIGN PARAMETERS

- DESIGN IS BASED UPON:
 EARTH RETAINING STRUCTURES CODE AS 4678-2002
 CONCRETE STRUCTURES CODE AS3600-2009
 BUILDING CODE OF AUSTRALIA
 PROTOTYPE TESTING AT MELBOURNE TESTING SERVICES
- LAND SLIPS (e.g. SLIP CIRCLE FAILURE MECHANISMS) HAVE NOT BEEN CONSIDERED IN THE RETAINING WALL DESIGN. THE DESIGN IS BASED UPON THE ASSUMPTION THAT THE WALL IS FOUNDED ON GROUND NOT SUBJECT TO SLIP. THE DETERMINATION OF THE SITE SUSCEPTIBILITY TO SLIP IS THE RESPONSIBILITY OF THE PROJECT ENGINEER AND THE GEOTECHNICAL CONSULTANT
- REFER DESIGN CERTIFICATION FOR RETAINED AND FOUNDING SOIL DESIGN PARAMETERS, DESIGN SURCHARGE LOADS AND WALL DESIGN GEOMETRY

 CONCRETE STANDARD - AS3600
 STANDARD DESIGN EXPOSURE CLASSIFICATION
 SLEEPERS & POSTS - B1, FOOTINGS - A1

ELEMENT	GRADE	SLUMP	MIN. COVER
SLEEPER	50 MPa	50mm	20mm * **
FOOTING	25 MPa	80mm	70mm

* RIGID FORMWORK & INTENSE COMPACTION
 ** MINIMUM SPECIFIED COVER 25mm
REINFORCEMENTS
 STANDARD - AS/NZS 4671
 YIELD 500 MPa; DUCTILITY CLASS N

4. ALL SURFACE AND SUBSURFACE DRAINAGE SHALL BE DESIGNED IN ACCORDANCE WITH AS4678-2002.

RW Height	Post	Footing Dia.	Sleeper
up to 1.2m	100UC15	450	80mm
1.21m to 2.1m	150UC23	450	80mm
2.11m to 3.0m	200UC46	600	80mm, 120mm
3.01m to 4.0m	250UC73	600	80mm, 120mm, 160mm

Itemref	Quantity	Title/Name, designation, material, dimension etc	Article No./Reference
Designed by HS	Checked by BT	Approved by - date BT - 16/03/10	File name S01.dwg Date 14/03/10 Scale do not scale
CONCRIB CONSTRUCTIONS		Concrib Sleeper Retaining Wall - Typical Section for Various Heights	
		S01	Edition 0 Sheet 1/1