

UNLESS SPECIFIED OTHERWISE,
TOP SURFACE TO BE HORIZONTAL WITH
NO SURCHARGE DUE TO FILLING OR STRUCTURES

DESIGN PARAMETERS

RETAINING WALL HEIGHT "H" (MM)	PIER STEM WIDTH "W" (MM)	REINFORCING BARS
600	170	2N12
750	180	2N12
900	190	2N16
1050	200	2N16
1200	210	2N16
1350	220	2N16
1500	230	2N16
1650	240	2N16
1800	250	2N20
1950	260	2N20
2100	270	2N20
2250	280	2N20
2400	290	2N20
2550	300	2N20

- DESIGN IS BASED UPON THE:
 - EARTH-RETAINING STRUCTURES CODE AS 4678-2002
 - CONCRETE STRUCTURES CODE AS3600-2001
 - BUILDING CODE OF AUSTRALIA
 - PROTOTYPETESTING AT THE UNIVERSITY OF QUEENSLAND
- 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 ON GROUND THAT IS NOT SUBJECT TO SLIP.

THE DETERMINATION OF THE SITE SUSEPTIBILITY TO SLIP IS THE RESPONCIBILITY 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

TO COMPLY WITH AS 3600
STANDARD DESIGN EXPOSURE CLASSIFICATION

- SLEEPERS AND POSTS _B1
- FOOTINGS _A1

ELEMENT	GRADE	SLUMP	MIN. COVER
SLEEPER	N50	50MM	20MM *, **
POST	N50	50MM	20MM *, **
FOOTING	N25	80MM	70MM

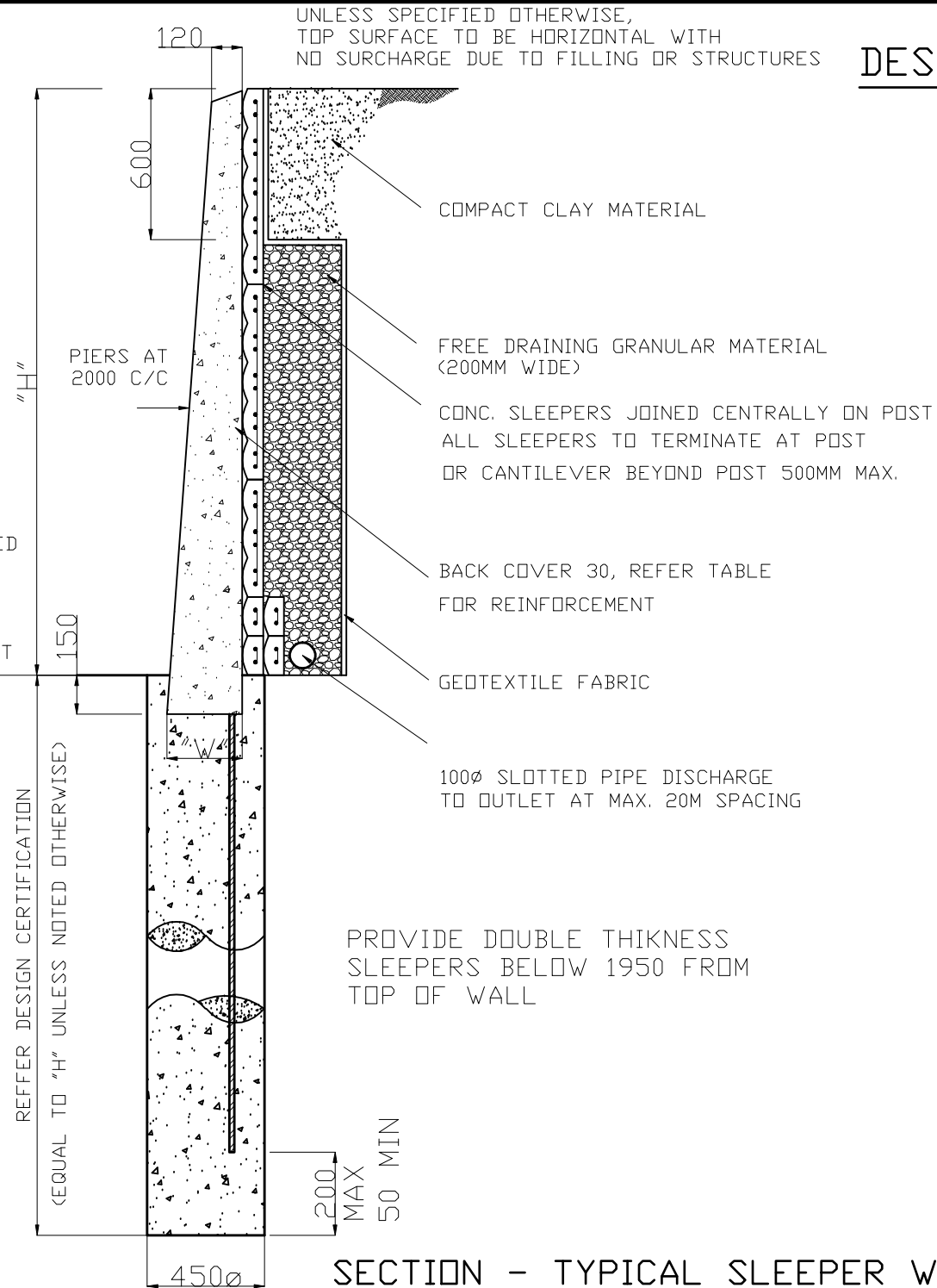
- * RIDGID FORMWORK & INTENCE COMPACTION
- ** MINIMUM SPECIFIED COVER 25MM

REINFORCEMENT

TO COMPLY WITH AS/NZS 4671
YEILD 500 MP_a
DUCTILITY CLASS N

- ALL SURFACE AND SUBSURFACE DRAINAGE SHALL BE DESIGNED IN ACCORDANCE WITH AS 4678-2002.

UNLESS SPECIFIED OTHERWISE,
HORIZONTAL SURFACE AREA FOR AT LEAST THE WALL HEIGHT



SECTION - TYPICAL SLEEPER WALL

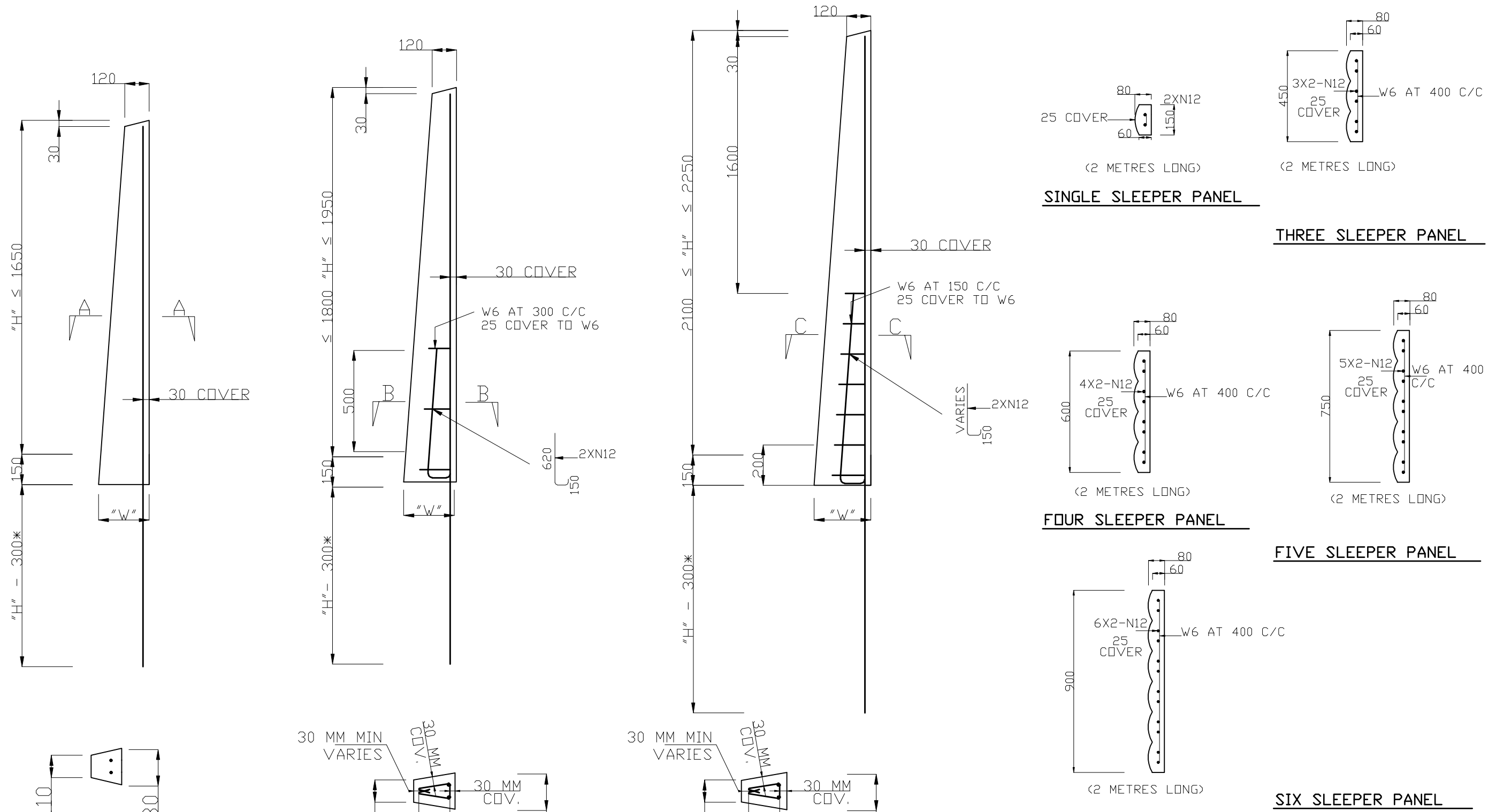
CONCRIB® SEGMENTAL RETAINING SLEEPER WALLS SHALL:

- BE DESIGNED IN ACCORDANCE WITH AS 4678-2002
- BE CONSTRUCTED IN ACCORDANCE WITH CONCRIB SPECIFICATION MC.02 & MANUFACTURERS RECOMMEDATIONS.
- HAVE SURFACE AND SUBSURFACE DRAINAGE DESIGNED IN ACCORDANCE WITH AS4678 - 2002
- HAVE GEOTECHNICAL DESIIGN AND VERIFICATION CARRIED OUT BY A SUITABLY QUAILIFIED AND EXPERIENCED ENGINEER. (EG. FOUNDATION, SLOPE STABILITY & DRAINAGE DESIGN/SPECIFICATION.)

ASSUMED DESIGN PARAMETERS

SOIL DENSITY	2.0 t/M ³
SOIL FRICTION ANGLE	30°
ALLOWABLE BEARING CAPACITY	150 KP _a
LIVE LOAD	5 KP _a

					Designed By	Date	Project Title CONCRIB SEGMENTAL RETAINING SLEEPER WALLS SYSTEM DETAIL	Drawing Title STANDARD SLEEPER WALL SECTION		
					Drawn By	Date		Client/Developer	Scale 1:25	AutoCad Ref
601 Boundary Road Richlands Qld. 4077					Approved	Date	Job. No		Sheet. No	Rev
					Rev.	Issue/Revision - Revise on CAD	Engineer	Approved	Date	1 OF 2



SECTION A-A

SECTION B-B

SECTION C-C

PIER ELEVATIONS

- CONCRIB® SEGMENTAL RETAINING SLEEPER WALLS SHALL:**
1. BE DESIGNED IN ACCORDANCE WITH AS 4678-2002
 2. BE CONSTRUCTED IN ACCORDANCE WITH CONCRIB SPECIFICATION MC.02 & MANUFACTURERS RECOMMENDATIONS.
 3. HAVE SURFACE AND SUBSURFACE DRAINAGE DESIGNED IN ACCORDANCE WITH AS4678 - 2002
 4. HAVE GEOTECHNICAL DESIGN AND VERIFICATION CARRIED OUT BY A SUITABLY QUALIFIED AND EXPERIENCED ENGINEER. (EG. FOUNDATION, SLOPE STABILITY & DRAINAGE DESIGN/SPECIFICATION)

					Designed By	Date	Project Title CONCRIB SEGMENTAL RETAINING SLEEPER WALLS SYSTEM DETAIL	Drawing Title STANDARD PIER ELEVATIONS & SECTIONS, SLEEPER PANEL DETAILS		
					Drawn By	Date		Client/Developer	Scale 1:20	AutoCad Ref
601 Boundary Road Richlands Qld. 4077					Approved	Date	Job. No			
					Rev. Issue/Revision - Revise on CAD		Engineer	Approved	Date	Sheet. No 2 OF 2