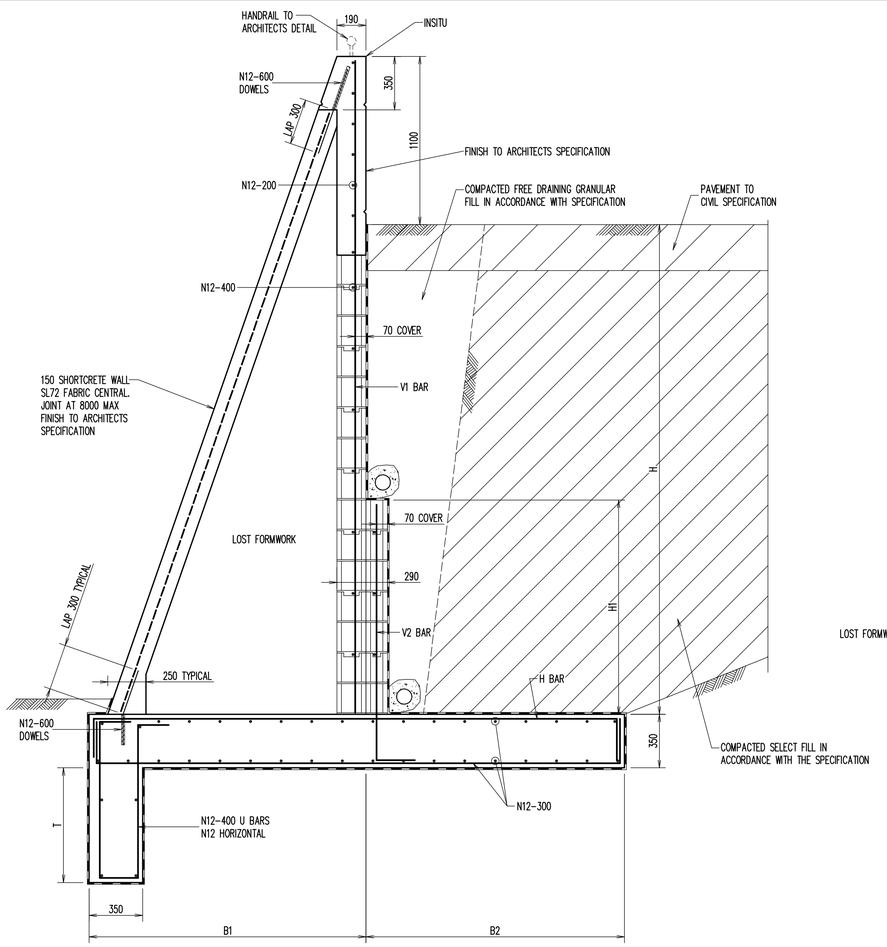
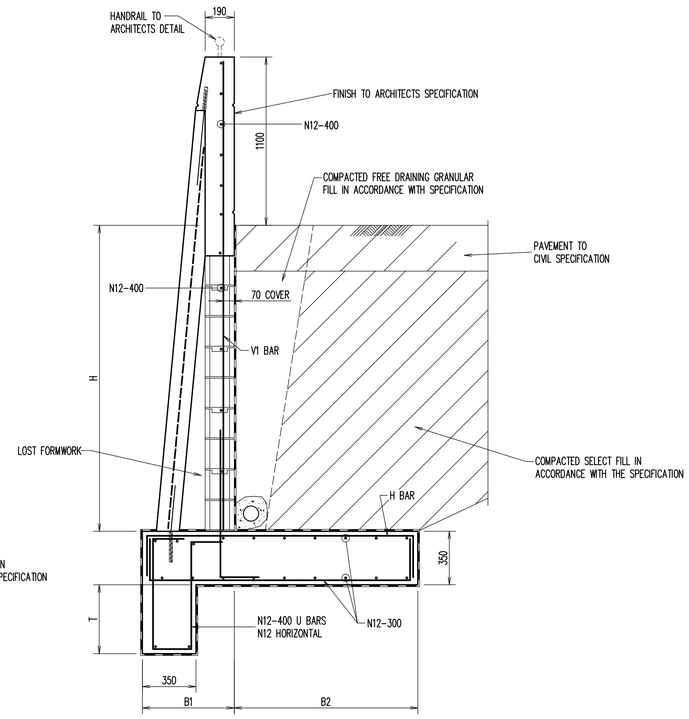


RETAINING WALL 1

NOTES:

1. ALL CONCRETE f'c 40MPa
2. ALTERNATIVELY THE ENTIRE WALL CAN BE BUILT INSITU

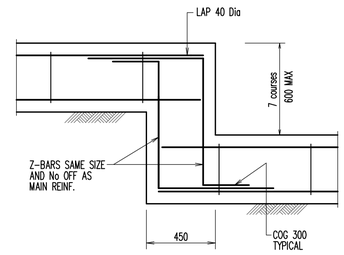


RETAINING WALL 2

NOTES:

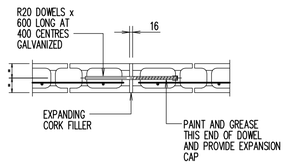
1. ALL CONCRETE f'c 40MPa

RETAINING WALL SCHEDULE								
TYPE	T	H	H1	B1	B2	V1 BAR	V2	H BAR
RT1	750	2600 – 3200	1400	2000 MIN	1500	N16-400	N20-200	N20-200
	600	2000 – 2600	900	1200 MIN	1500	N16-400	N20-400	N20-400
RT2	450	1500 – 2000	0	600 MIN	1200	N16-200	–	N16-200
	300	800 – 1500	0	350 MIN	900	N16-400	–	N16-400
	300	< 800	0	350 MIN	450	N12-400	–	N12-400



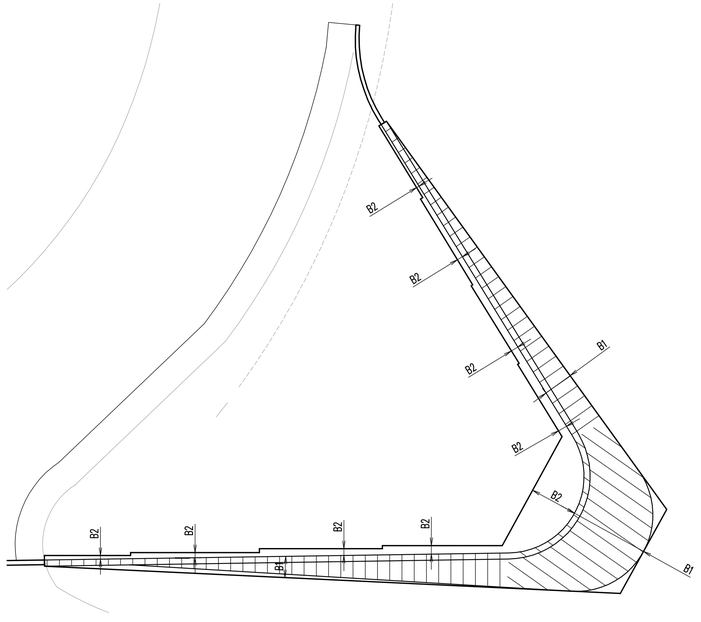
STEP

STRIP FOOTING DETAILS



TYPICAL CONTROL JOINT DETAIL

(8000 MAX. CTS U.N.O.)



RETAINING WALL BASE PLAN

SCALE : NTS

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TENDER NOTES

1. These drawings are preliminary drawings issued for tender as an indication of the extent of works only. They are not a complete construction set of drawings.
2. To determine the full extent of work, these drawings shall be read in conjunction with the architectural drawings and other contract documents. Allow for all items shown on architectural and other drawings as not all items are shown on the structural drawings.
3. Should any ambiguity, error, omissions, discrepancy, inconsistency or other fault exist or seem to exist in the documents, immediately notify in writing to the Superintendent.
4. Rates shown on the drawings are for the final structure in place and do not allow for any wastage, rolling margins, over supply or fabrication requirements. etc.

MASONRY NOTES

1. Temporary bracing shall be provided by the contractor to keep the structure stable at all times. Request wall bracing details from the Taylor Thomson Whitting site engineer if required.
2. Masonry to be in accordance with AS 3700
3. Masonry units shall comply with AS/NZS 4455 and as follows:

Type of masonry unit	Characteristic unconfined compressive strength (f'uc)	Characteristic lateral modulus of rupture (f'ut)
Clay & Calcium silicate	15 MPa	0.8 MPa
Concrete (used in unreinforced non-loadbearing masonry)	4.5 MPa (hollow units) 3.0 MPa (solid or cored units)	0.8 MPa
Concrete (used in unreinforced loadbearing masonry and reinforced masonry)	15 MPa (hollow units) 10 MPa (solid or cored units)	0.8 MPa

3. All load bearing concrete masonry walls shall have all cores filled with grout UNO. Core filling grout shall be thoroughly compacted. Grout to be in accordance with AS3700 and as follows:

Location	f'cg MPa	Specified Slump	Maximum Agg. Size
Grout	20	230	10

4. Mortar shall consist of the following:
   - M3 for general applications
     1 part Type GP cement: 5 parts sand plus water thickener
   - M4 for elements in interior environments subject to saline wetting and drying; below a damp-proof course or in contact with ground in aggressive soils; in severe marine environments; in saline or contaminated water including tidal splash zones; and within 1km of an industry producing chemical pollutants.
     1 part Type GP cement: 4 parts sand plus water thickener
5. Provide vertical control joints in masonry over permanent floor joints and as per the architectural drawings.
6. Masonry walls shown on the structural plans are load-bearing UNO. Non-loadbearing walls shall be separated from the concrete structure above with 20mm compressible filler. Masonry walls supporting slabs shall have a layer of mortar troweled smooth on top. Provide M.E.T. slip joint to separate floor slabs and masonry. Provide Hercules HERCUSLIP COMPOSITE to separate roof slabs and masonry.
7. Other than what is allowed in the specification no chasing or rebates may be made in masonry walls without written approval.
8. The contractor shall provide records that demonstrate all masonry bed joint reinforcement, masonry ties and masonry wall stiffeners have been installed in accordance with the drawings and specification.
9. All core filled blockwalls shall be constructed with "Double U" blocks
10. In reinforced blockwalls cleanout openings shall be provided at the bottom of each core containing vertical reinforcement. Reinforced cores shall be cleaned of mortar protrusions before grouting.
11. All reinforced block walls shall have all cores filled with grout UNO. Core filling grout to be in accordance with note 3.
12. Cover to reinforcement to be 50mm to face of block UNO.
13. Provide bed joint reinforcement as follows
    M.E.T. galvanized masonry reo where M3 mortar is used (supplied by DUNSTONE MAZE in NSW)
    Ancon CCL stainless steel where M4 mortar is used and locate as follows
    - in 2 bed joints below and above head and sill flashings to openings
    - in 2 bed joints below and above openings
    - in third bed joint above bottom of wall
    - in second bed joint below top of wall

Rev	Description	Eng	Draft	Date
A	ISSUED FOR TENDER	R.P.	M.W.	29.04.09

Project

ART GALLERY OF N.S.W. LOADING DOCK

Sheet Subject

RETAINING WALLS

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Scale : A1	Drawn	Authorised
1:1	M.W.	

Job No	Drawing No	Revision
061614	C104	A

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