

EARTHWORKS/COMPACTION NOTES

1. STRIP AND STOCKPILE TOPSOIL FOR RE-USE IN LANDSCAPING. ALL EXCESS EXISTING TOPSOIL, FILL, ROAD MATERIALS AND OTHER EXCAVATED MATERIAL, TREES/VEGETATION ETC. SHALL BE DISPOSED OFF SITE TO AN APPROVED DISPOSAL SITE. THE CONTRACTOR SHALL PAY ALL FEES AND CHARGES ASSOCIATED WITH THE TESTING AND DISPOSAL OF EXCESS MATERIAL.
2. THE SUPERINTENDENT SHALL BE NOTIFIED WHEN EARTHWORKS HAVE REACHED DESIGN SUB-GRADE LEVEL (ie. UNDERSIDE OF PROPOSED PAVEMENT) AND WHEN SURFACES ARE EXPOSED PRIOR TO FILLING. PRIOR ROLL ALL DESIGN SUB-GRADES AND SURFACES EXPOSED, WITH A MINIMUM OF EIGHT PASSES OF A VIBRATING ROLLER (MINIMUM STATIC WEIGHT OF 10 TONNES) IN THE PRESENCE OF THE SUPERINTENDENT, WHERE REQUIRED BENCH THE FILL AREA TO FACILITATE LEVEL FILL PLACEMENT. PARTICULARLY WHERE FILLING OR CUTTING OPERATIONS ARE REQUIRED TO ACHIEVE DESIGN SUB-GRADE.
3. ALL WEAK/SOFT AND UNSUITABLE MATERIAL (MORE THAN 3mm MOVEMENT UNDER ROLLER) TO BE REMOVED AS DIRECTED BY THE SUPERINTENDENT AND REPLACED WITH APPROVED MATERIAL. PLACED & COMPACTED IN ACCORDANCE WITH REQUIREMENTS OF SPECIFICATION FOR THE PAVEMENT IN THAT AREA.
4. ALL SELECT OR IMPORTED FILL MATERIAL SHALL BE FROM A SOURCE APPROVED BY THE SUPERINTENDENT AND SHALL COMPLY WITH THE FOLLOWING:
- GENERAL SELECT OR IMPORTED FILL
- a) FREE FROM ORGANIC AND PERISHABLE MATTER
- b) MAXIMUM PARTICLE SIZE 75mm
- c) PLASTICITY INDEX LESS THAN 15%
- d) MINIMUM CBR 8%
- PRIOR TO IMPORTING OF FILL, SAMPLES OF FILL MATERIAL SHALL BE TESTED TO ASSESS THE APPROPRIATENESS OF THE FILL MATERIAL & REPORTING SUBMITTED FOR REVIEW. WHERE SUITABLE MATERIALS FOR FILLING ARE AVAILABLE ON-SITE THE CONTRACTOR SHALL MANAGE AND SORT THE MATERIALS SO OBTAINED FROM CUTTINGS TO ENSURE THE BEST MATERIAL IS USED.
5. ALL FILL MATERIAL SHALL BE PLACED IN MAXIMUM 200mm THICK LAYERS AND COMPACTED AT OPTIMUM MOISTURE CONTENT (-2% TO 2%) TO ACHIEVE A DRY DENSITY DETERMINED IN ACCORDANCE WITH AS1289 OF NOT LESS THAN THE FOLLOWING STANDARD MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS1289.
- | LOCATION | STANDARD DRY DENSITY |
|--|----------------------|
| EXTERNAL PAVED AREAS,
ROADS AND CARPARKS
(TOP 600mm BELOW SUBGRADE LEVEL)..... | 100% |
| (BELOW TOP 600mm)..... | 98% |
| LANDSCAPED AREAS..... | 90% |
- SUB- BASE & BASE COURSE TO BE COMPACTED AS SPECIFIED FOR THE APPROPRIATE PAVEMENT TYPE.

6. THE CONTRACTOR SHALL PROGRAMME THE EARTHWORKS OPERATION SO THAT THE WORKING AREAS ARE ADEQUATELY DRAINED DURING THE PERIOD OF CONSTRUCTION THE SURFACE SHALL BE GRADED AND SEALED OFF TO REMOVE DEPRESSIONS, ROLLER MARKS AND SIMILAR WHICH WOULD ALLOW WATER TO POND AND PENETRATE THE UNDERLYING MATERIAL ANY DAMAGE RESULTING FROM THE CONTRACTOR UNSATISFACTORY DRAINAGE DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR AT THEIR COST.
7. ALL TESTING OF THE SUB-GRADE SHALL BE CARRIED OUT BY AN APPROVED "NATA" REGISTERED LABORATORY AT THE CONTRACTORS EXPENSE & RESULTS SUBMITTED TO THE SUPERINTENDENT FOR REVIEW.
8. CONSTRUCTION GENERALLY TO BE IN ACCORDANCE WITH AS3798-2007 GUIDELINES ON EARTHWORKS FOR COMMERCIAL & RESIDENTIAL DEVELOPMENTS.

1. ALL WORKS MUST BE CONSTRUCTED IN ACCORDANCE WITH THE RELEVANT COUNCIL'S STANDARD "SPECIFICATIONS FOR ROADWORKS, DRAINAGE AND MISCELLANEOUS WORKS" UNLESS OTHERWISE APPROVED.
2. NO WORKS ARE TO COMMENCE UNTIL AN INITIAL INSPECTION IS UNDERTAKEN BY COUNCIL, IF REQUIRED.
3. NO CONCRETE IS TO BE POURED UNTIL A COUNCIL OFFICER CARRIES OUT A FORMWORK INSPECTION, IF REQUIRED.
4. FOR THE PROTECTION OF THE PUBLIC, WORKCOVER APPROVED BARRIERS MUST BE ERECTED AND MAINTAINED AT ANY WORKSITE ON COUNCIL OWNED OR MANAGED PROPERTY.
5. THE FOOTPATH MUST BE CLEAR OF RUBBISH OR SUITABLY BARRICADED AT ALL TIMES. FOLLOWING COMPLETION, ALL WASTE MUST BE REMOVED FROM THE FOOTPATH AREA, GUTTERS AND PITS.
6. IN THE EVENT OF A NEW GUTTER CROSSING BEING REQUIRED, ANY DISUSED GUTTER CROSSINGS MUST BE RESTORED TO MATCH THE EXISTING KERB AND GUTTER.
7. IF THE EXISTING GUTTER CROSSING IS DAMAGED OR CRACKED, IT MUST BE COMPLETELY REMOVED AND RECONSTRUCTED TO COUNCIL SPECIFICATIONS IN ORDER TO PREVENT INFILTRATION OF WATER INTO PAVEMENT.
8. IF THE ROAD PAVEMENT IS DAMAGED DURING CONSTRUCTION, IT MUST BE RESTORED IN ACCORDANCE WITH COUNCIL'S SPECIFICATIONS AT THE CONTRACTOR'S COST.
9. BOUNDARY LEVELS FOR NEW CROSS OVERS TO BE CONFIRMED WITH COUNCIL PRIOR TO WORKS PROCEEDING.

N.B.
FOR LEVELS, PAVEMENT FALLS AND SUB SOIL DRAINAGE REFER TO LANDSCAPE
ARCHITECT'S AND HYDRAULIC ENGINEER'S DOCUMENTATION.

BASECOURSE:
DGS40 (RTA FORM 3057) OR EQUIVALENT COMPACTED TO 98% SMD. MINIMUM SOAKED CBR 45% U.N.O.

SUB-GRADE:
PROOF ROLLED NATURAL SUB GRADE ROCK OR ENGINEERED FILL. REFER PROJECT GEOTECHNICAL REPORT: REF 86625.00 BY DOUGLAS PARTNERS DATE 6TH DECEMBER 2018.

150 THICK CONCRETE SLAB
($f'c=32MPa$, SL92 MESH TOP)
PROVIDE JOINTS AS DETAILED
(2:1 RATIO MAX.)

100 THICK BASECOURSE

SUB-GRADE

PEDESTRIAN TRAFFIC OR OCCASIONAL LIGHT VEHICLES.

150 THICK CONCRETE SLAB
REIN TO FUTURE DETAILS

FILL AS FORM
SUB-GRADE

P1	ISSUED FOR 75% TENDER	19.03.21	M.B.						
ISSUE	AMENDMENT	DATE	CHECKED	ISSUE	AMENDMENT			DATE	CHECKED

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PROJECT
UPPER AUSTRALIA
EXHIBIT
TARONGA ZOO

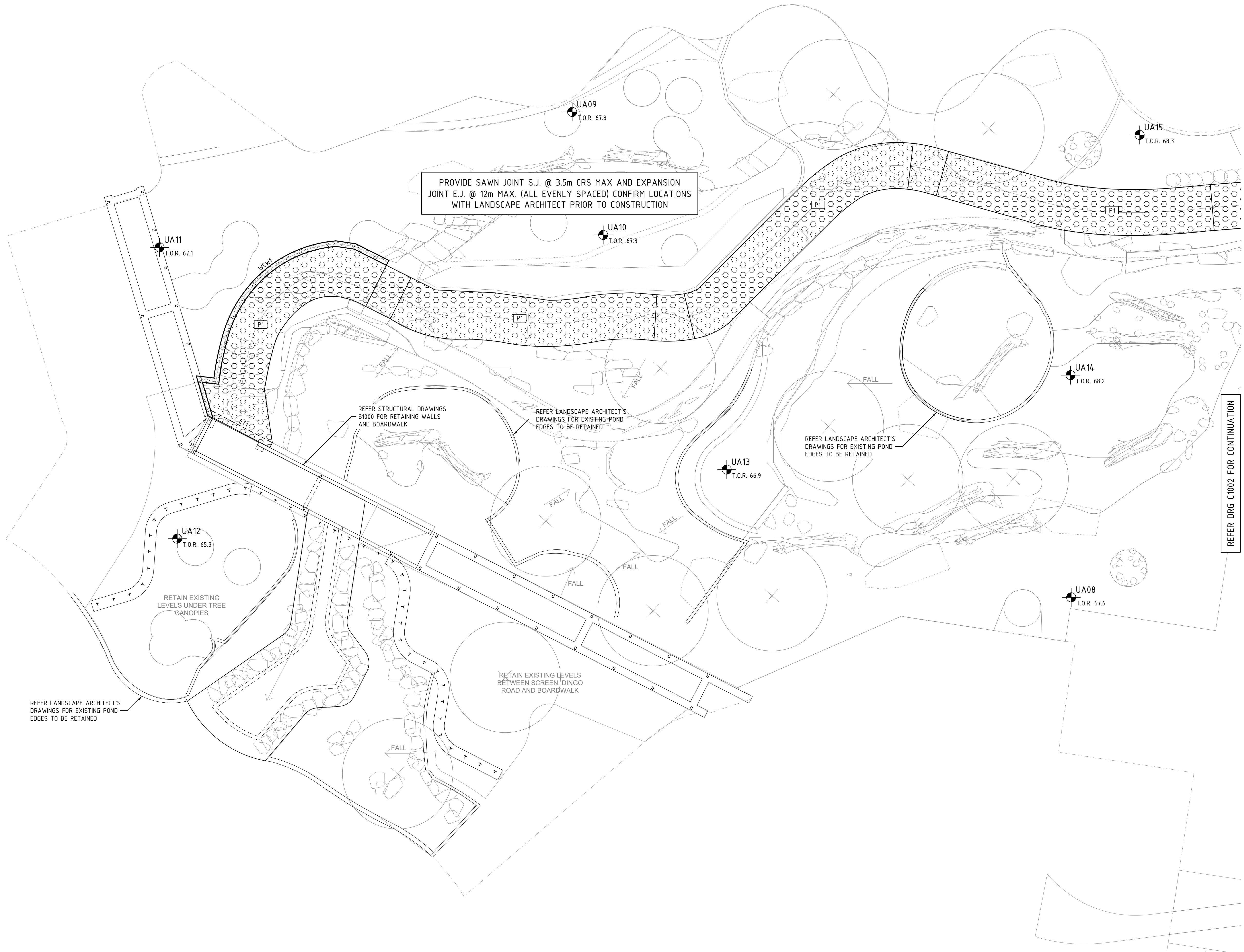


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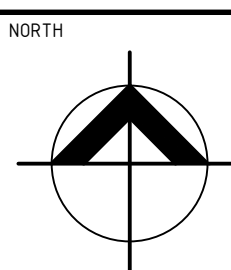
GENERAL NOTES

PRELIMINARY - NOT FOR CONSTRUCTION			
JOB NUMBER 19028		DRAWING NUMBER C0001	REVISION P1
DATE 19.03.21	SCALE @ A1 N.A.	CERTIFIED	
DESIGNED M.B.	DRAWN J.W.		

JOB NUMBER		DRAWING NUMBER		REVISION	
19028		C1001		P2	
DATE	SCALE @ A1	CERTIFIED			
11.02.21	1:100				
DESIGNED	DRAWN				
M.B.	J.W.				



P2	ISSUED FOR 75% TENDER	19.03.21	M.B.				
P1	ISSUED FOR 50% PRICING	12.02.21	M.B.				
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PROJECT UPPER AUSTRALIA EXHIBIT TARONGA ZOO



TITLE

LANDSCAPING
GENERAL ARRANGEMENT PLAN
SHEET 1

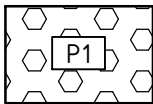
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REFER DRG C1001 FOR CONTINUATION

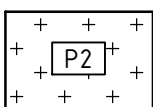
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FOR GENERAL NOTES REFER DRAWING C0001
DWG's. TO BE READ IN CONJUNCTION WITH ARCHITECTURALS.
ALL CONC. PROFILES ie: STEPS, FALLS, ETC. TO ARCH. DETAIL

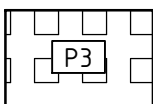
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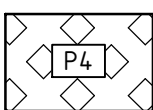
PAVING TYPE P1 DENOTES 150 THK R.C.
SLAB TO LANDSCAPE ARCHITECT. REFER DRG.
C0001 FOR DETAILS



PAVING TYPE P2 DENOTES 35 THICK
ASPHALTIC CONCRETE TO LANDSCAPE
ARCHITECT. REFER DRG C0001 FOR DETAILS.



PAVING TYPE P3 DENOTES 150 THK R.C.
SLAB ON GRADE TO LANDSCAPE ARCHITECT.
REFER DRG C0001 FOR DETAILS.



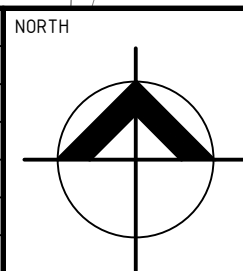
PAVING TYPE P4 DENOTES 150 THK
SUSPENDED R.C. SLAB TO LANDSCAPE
ARCHITECT. REFER DRG C0001 FOR DETAILS.

MEMBER SCHEDULE

MARK	MEMBER
(u)	INDICATES MEMBER IS UNDER
(o)	INDICATES MEMBER IS OVER ONLY
BEP	400x400 BLOCK ENGAGED PIER TO MATCH WALL TYPE
F.SF1	500 DEEP x 450 MIN R.C. STRIP FOOTING FOR SHEET METAL FENCE
ET1	300 DEEP x 300 SLAB EDGE THICKENING
FB1	500 DEEP MIN x 450 R.C. FOOTING BEAM
FB2	500 DEEP x 450 R.C. FOOTING BEAM
F.WBW1	190 / 290 R.C. BLOCK RETAINING WALL. REFER DRG. C2001
F.WBW2	190 / 290 R.C. BLOCK RETAINING WALL. REFER DRG. C2001
L.BP1	Ø450 R.C. PILE @ 3.0m CRS MAX SOCKET 300 MIN INTO ROCK
ST1	300 DEEP x 300 SLAB THICKENING
WBW1	190 / 290 R.C. BLOCK RETAINING WALL. REFER DRG. C2002
WBW2	190 / 290 R.C. BLOCK RETAINING WALL. REFER DRG. C2002
WCW1	250 THK R.C. RETAINING WALL. TO FUTURE DETAILS
WMR1	190 / 290 R.C. BLOCK RETAINING WALL. REFER DRG. C2002

D.J. DENOTES DOWELLED JOINT. REFER DRG C2001.
E.J. DENOTES EXPANSION JOINT. REFER DRG C2001.
S.J. DENOTES SAWN JOINT. REFER DRG C2001.

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PROJECT
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EXHIBIT
TARONGA ZOO



TITLE

LANDSCAPING
GENERAL ARRANGEMENT PLAN
SHEET 2


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19028		C1002		P1
DATE	SCALE @ A1	CERTIFIED		
11.02.21	1:100			
DESIGNED	DRAWN			
M.B.	J.W.			


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
REFER DRG C1002 FOR CONTINUATION


FOR GENERAL NOTES REFER DRAWING C0001
DWG's. TO BE READ IN CONJUNCTION WITH ARCHITECTURALS.
ALL CONC. PROFILES ie: STEPS, FALLS, ETC. TO ARCH. DETAIL

LEGEND

 PAVING TYPE P1 DENOTES 150 THK R.C. SLAB TO LANDSCAPE ARCHITECT. REF. DRG C0001 FOR DETAILS.

 PAVING TYPE P2 DENOTES 35 THICK ASPHALTIC CONCRETE TO LANDSCAPE ARCHITECT. REF. DRG C0001 FOR DETAILS.

 PAVING TYPE P3 DENOTES 150 THK R.C. SLAB ON GRADE TO LANDSCAPE ARCHITECT. REF. DRG C0001 FOR DETAILS.

 PAVING TYPE P4 DENOTES 150 THK SUSPENDED R.C. SLAB TO LANDSCAPE ARCHITECT. REF. DRG C0001 FOR DETAILS.

MEMBER SCHEDULE

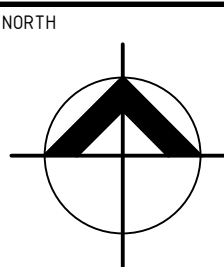
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WBW2	190 / 290 R.C. BLOCK RETAINING WALL. REFER DRG. C2002
WCW1	250 THK R.C. RETAINING WALL. TO FUTURE DETAILS
WMR1	190 / 290 R.C. BLOCK RETAINING WALL. REFER DRG. C2002

D.J. DENOTES DOWELLED JOINT. REFER DRG C2001.
E.J. DENOTES EXPANSION JOINT. REFER DRG C2001.
S.J. DENOTES SAWN JOINT. REFER DRG C2001.

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A1

P1	ISSUED FOR 75% TENDER	19.03.21	M.B.				
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PROJECT
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EXHIBIT
TARONGA ZOO



TITLE

LANDSCAPING
GENERAL ARRANGEMENT PLAN
SHEET 3

JOB NUMBER 19028		DRAWING NUMBER C1003	REVISION P1
DATE 18.03.21	SCALE @ A1 1:100	CERTIFIED	
DESIGNED M.B.	DRAWN J.W.		

A1

REFER DRG C1003 FOR CONTINUATION

UA04
T.O.R. 64.9

RETAIN EXISTING PORTION OF PLATYPUS
HOUSE SLAB AND FOOTINGS TO RETAIN TREES.
REFER LANDSCAPE ARCHITECT'S DRAWINGS

150 THK R.C. STAIR -

REFER LANDSCAPE
— ARCHITECT'S DRAWINGS FOR
EXISTING RETAINING WALL

UA06
T.O.R. 63.1

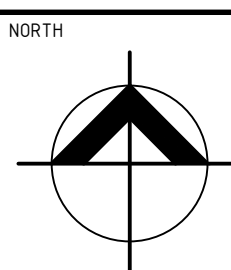
UA05
T.O.R. 63.4

REFER LANDSCAPE ARCHITECT'S
— AND HYDRAULIC ENGINEER'S
DRAWINGS FOR GUTTER DETAIL

150 THK R.C. STAIR

A1

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TITLE

LANDSCAPING
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SHEET 4

JOB NUMBER 19028		DRAWING NUMBER C1004	REVISION P1
DATE 18.03.21	SCALE @ A1 1:100	CERTIFIED	
DESIGNED M.B.	DRAWN J.W.		

FOR GENERAL NOTES REFER DRAWING C0001
DWG's. TO BE READ IN CONJUNCTION WITH ARCHITECTURALS.
ALL CONC. PROFILES ie: STEPS, FALLS, ETC. TO ARCH. DETAIL.

LEGEND

PAVING TYPE P1 DENOTES 150 THK R.C. SLAB TO LANDSCAPE ARCHITECT. REFER DRG. C0001 FOR DETAILS

PAVING TYPE P2 DENOTES 35 THICK ASPHALTIC CONCRETE TO LANDSCAPE ARCHITECT. REFER DRG C0001 FOR DETAILS.

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PAVING TYPE P4 DENOTES 150 THK SUSPENDED R.C. SLAB TO LANDSCAPE ARCHITECT. REFER DRG C0001 FOR DETAILS.

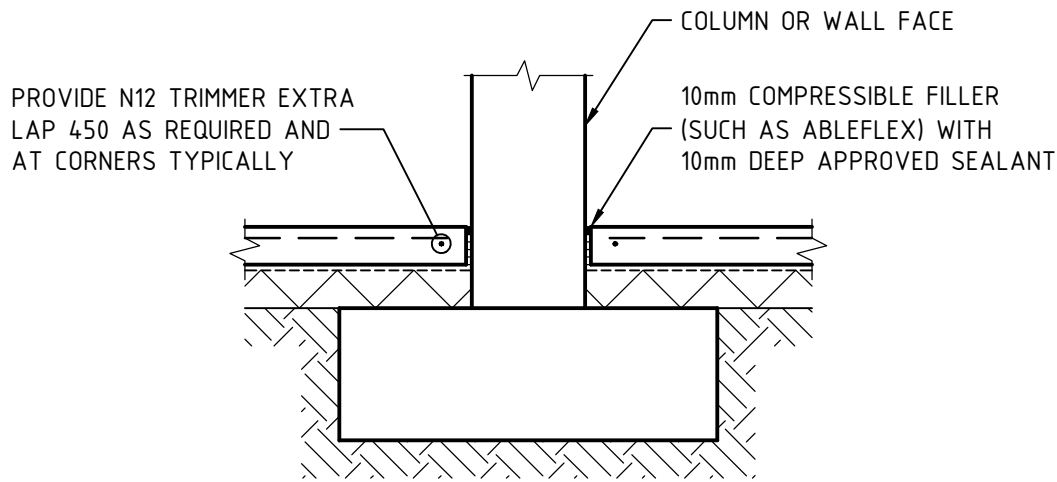
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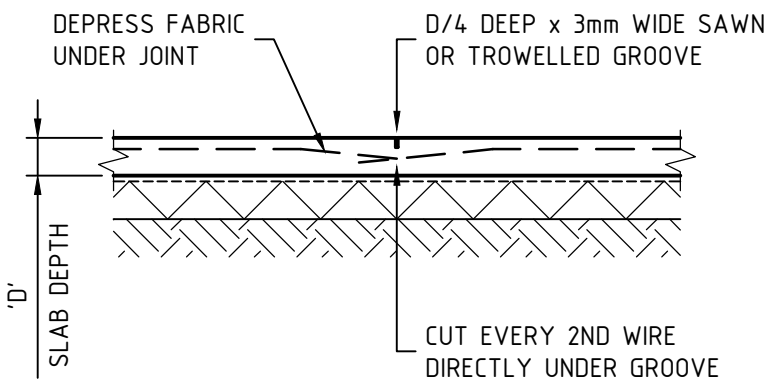
D.J. DENOTES DOWELLED JOINT. REFER DRG C2001.
E.J. DENOTES EXPANSION JOINT. REFER DRG C2001.
S.J. DENOTES SAWN JOINT. REFER DRG C2001.

PRELIMINARY - NOT FOR CONSTRUCTION

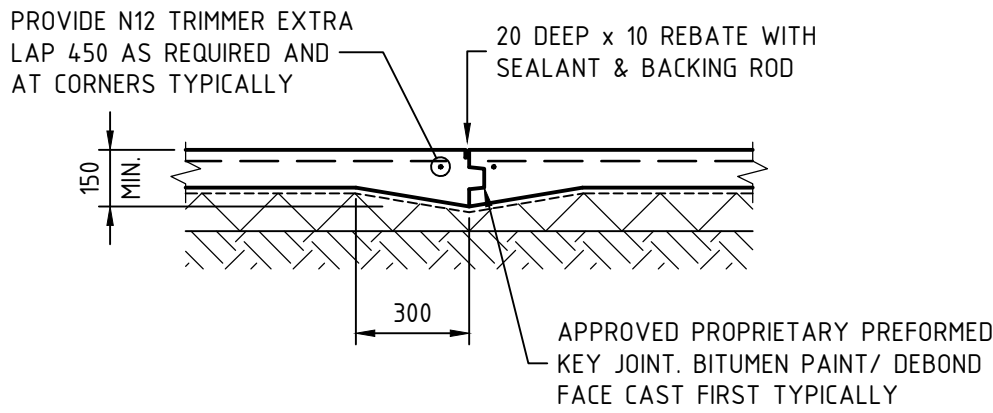
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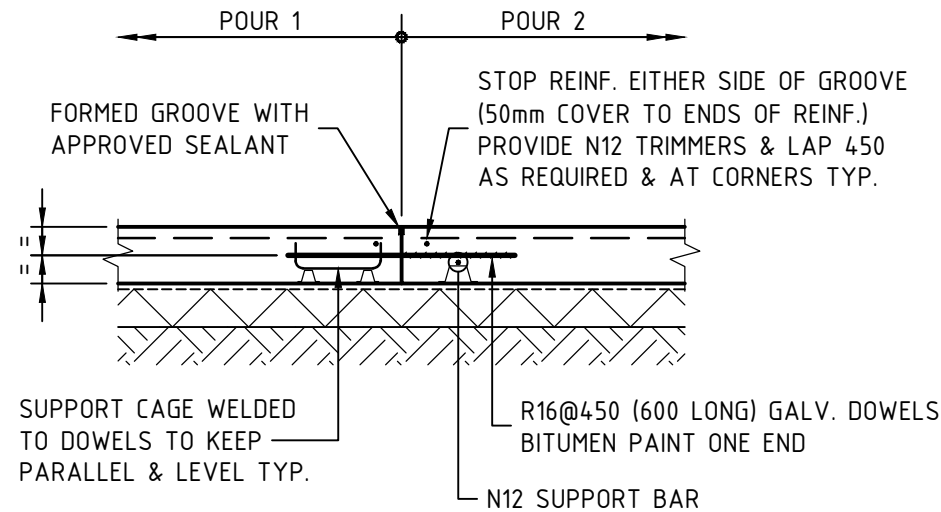
I.J. - ISOLATION JOINT
SCALE 1:20



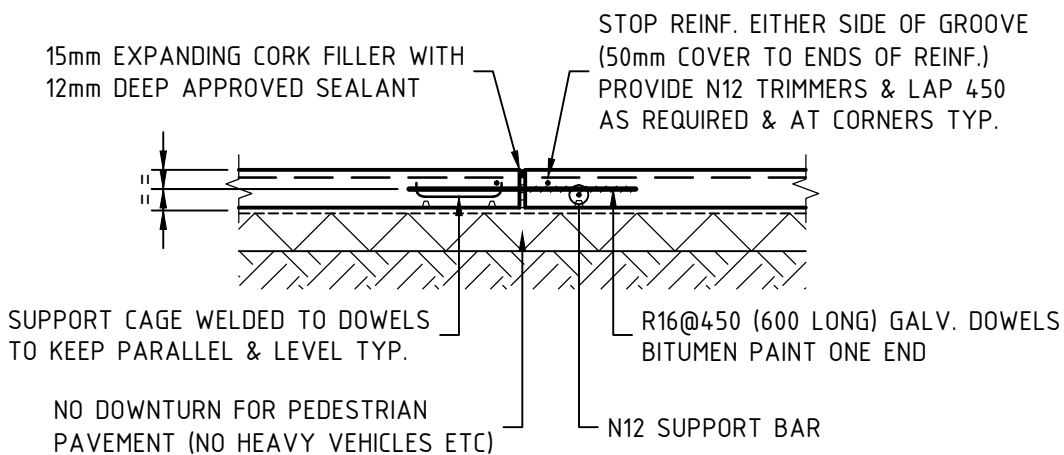
S.J. - SAWN CONTROL JOINT
SCALE 1:20
NOTE: SAW CUT TO BE MADE WITHIN 16 HOURS OF CASTING SLAB.



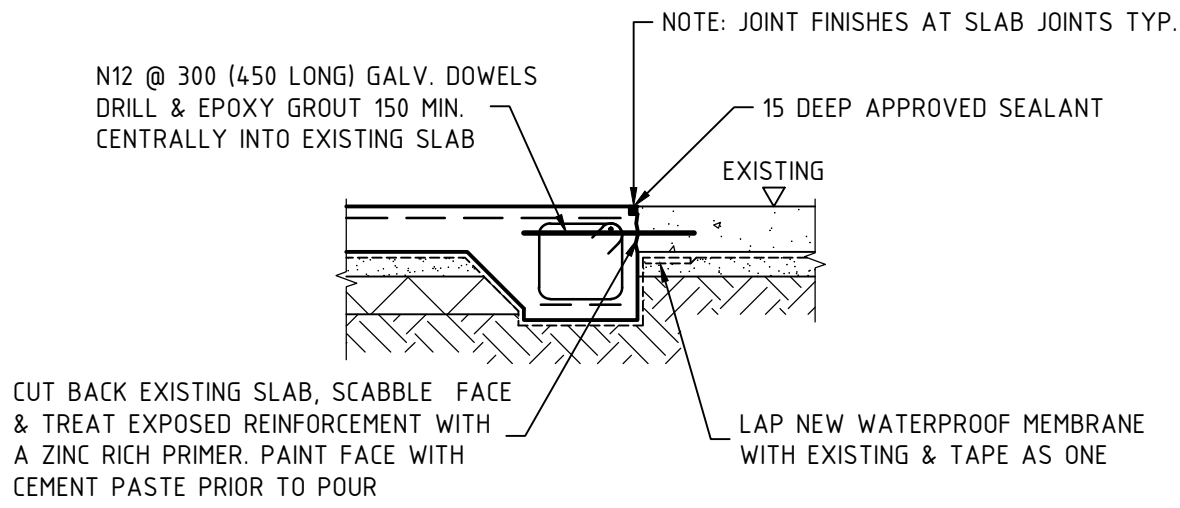
K.J. - KEYED JOINT
SCALE 1:20
NOTE:
1. ALL KEYS TO STOP 300mm FROM ALL INTERSECTING JOINTS, WALL EDGES etc.
2. REPAIR ANY DEFECTS IN THE KEYS SO THAT THEY HAVE A FLAT AND SMOOTH SURFACE PRIOR TO BITUMEN COATING.



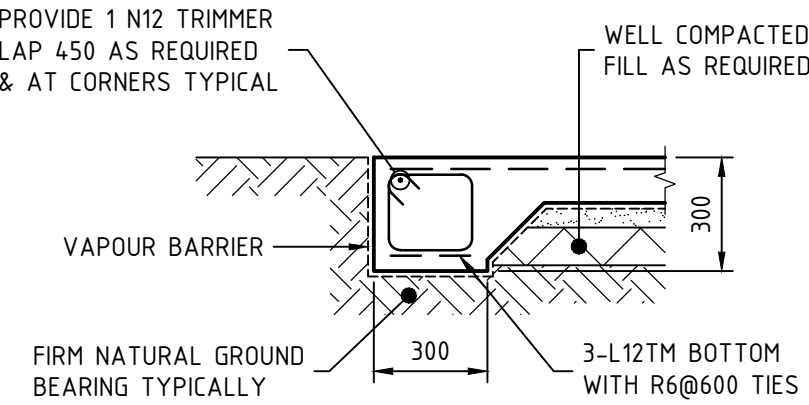
D.J. - DOWELLED JOINT
SCALE 1:20



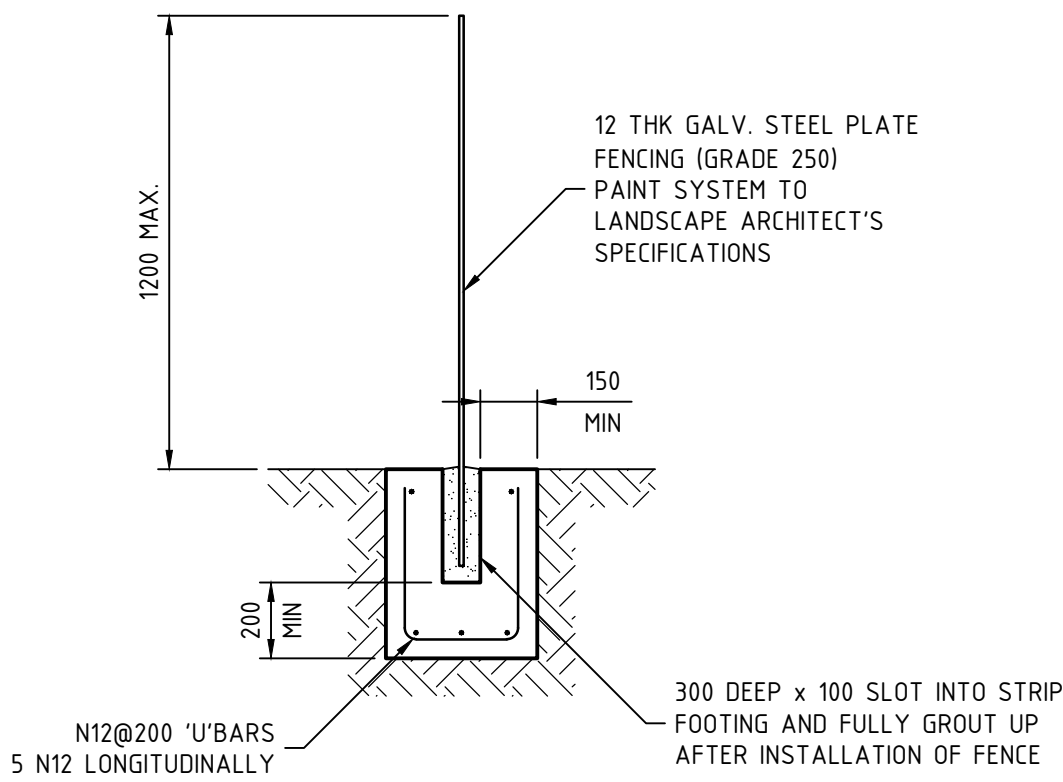
E.J. - EXPANSION JOINT IN PAVEMENTS
SCALE 1:20



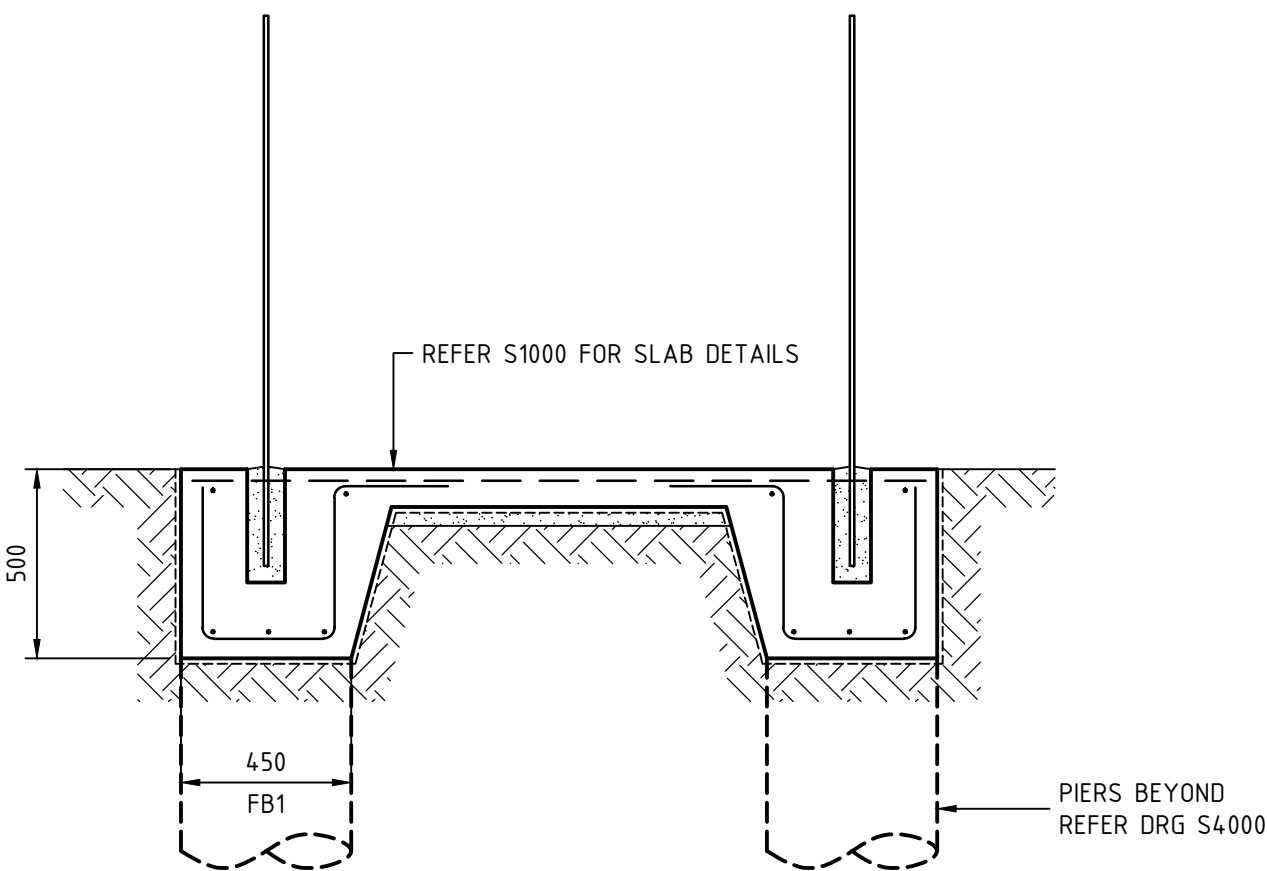
TYPICAL DOWELLED JOINT D.J. AT EXISTING
SCALE 1:20



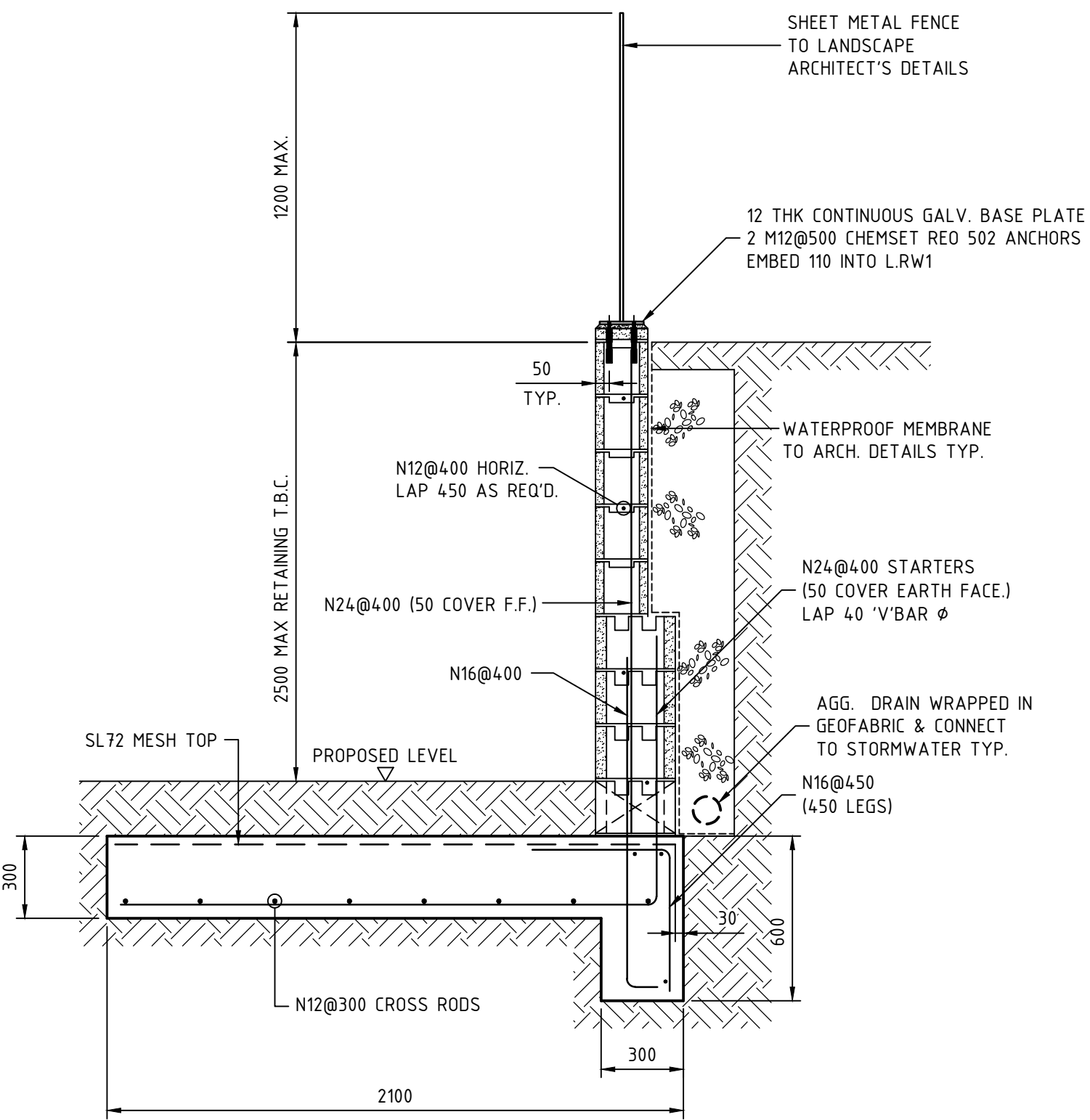
TYPICAL EDGE THICKENING ET1
SCALE 1:20



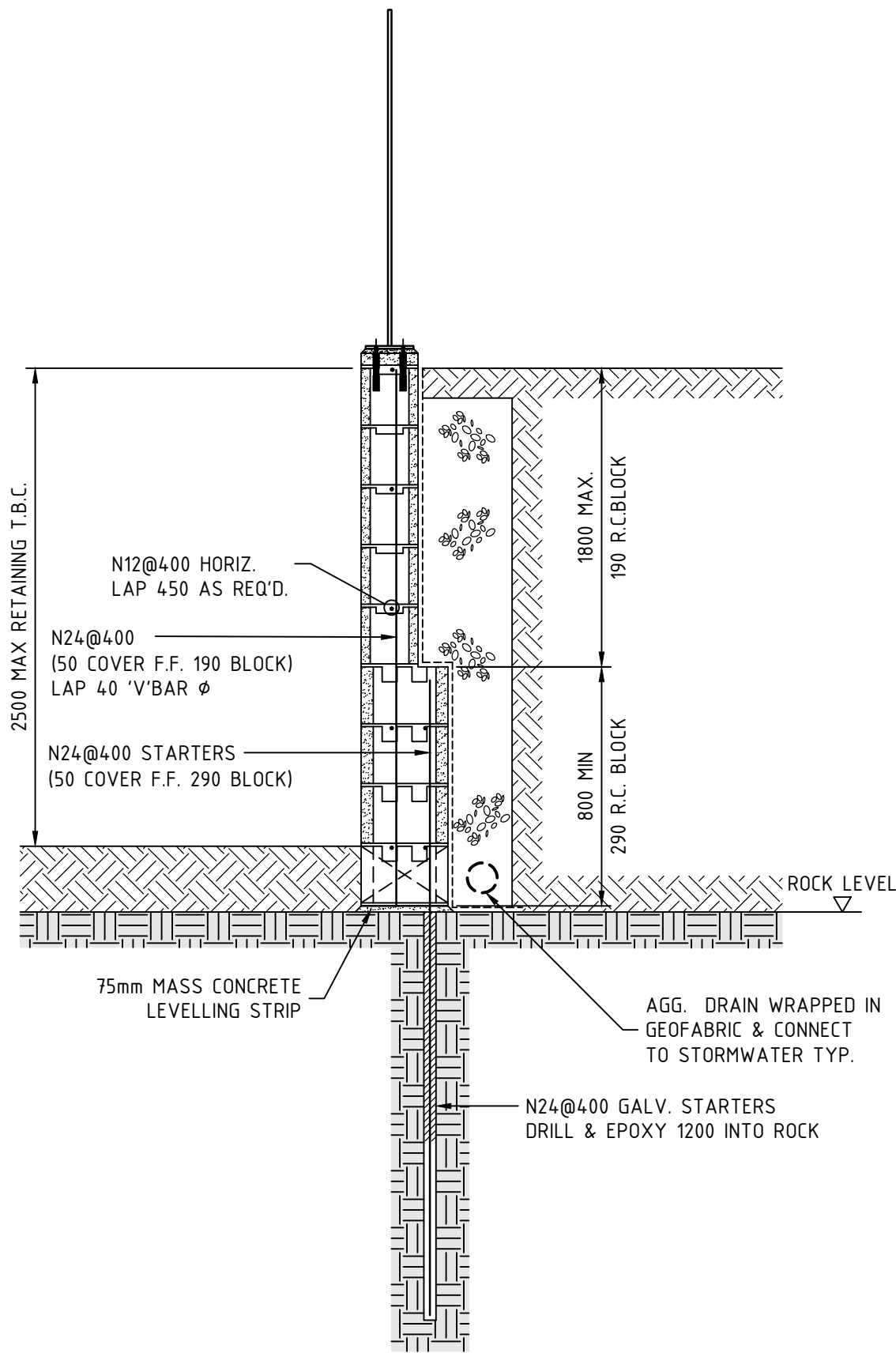
TYPICAL STRIP FOOTING F.SF1
SCALE 1:20



SECTION 1
SCALE 1:20
C1001



RETAINING WALL - F.BW1
SCALE 1:20



RETAINING WALL - F.BW1 ON ROCK
SCALE 1:20
ALTERNATE F.BW1 DETAIL FOR WALL ONTO ROCK

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PROJECT
UPPER AUSTRALIA
EXHIBIT
TARONGA ZOO



TITLE
LANDSCAPING
SECTIONS AND DETAILS
SHEET 1

JOB NUMBER	DRAWING NUMBER	REVISION
19028	C2001	P1
DATE 03.03.21	SCALE @ A1 1:20 U.N.O.	CERTIFIED
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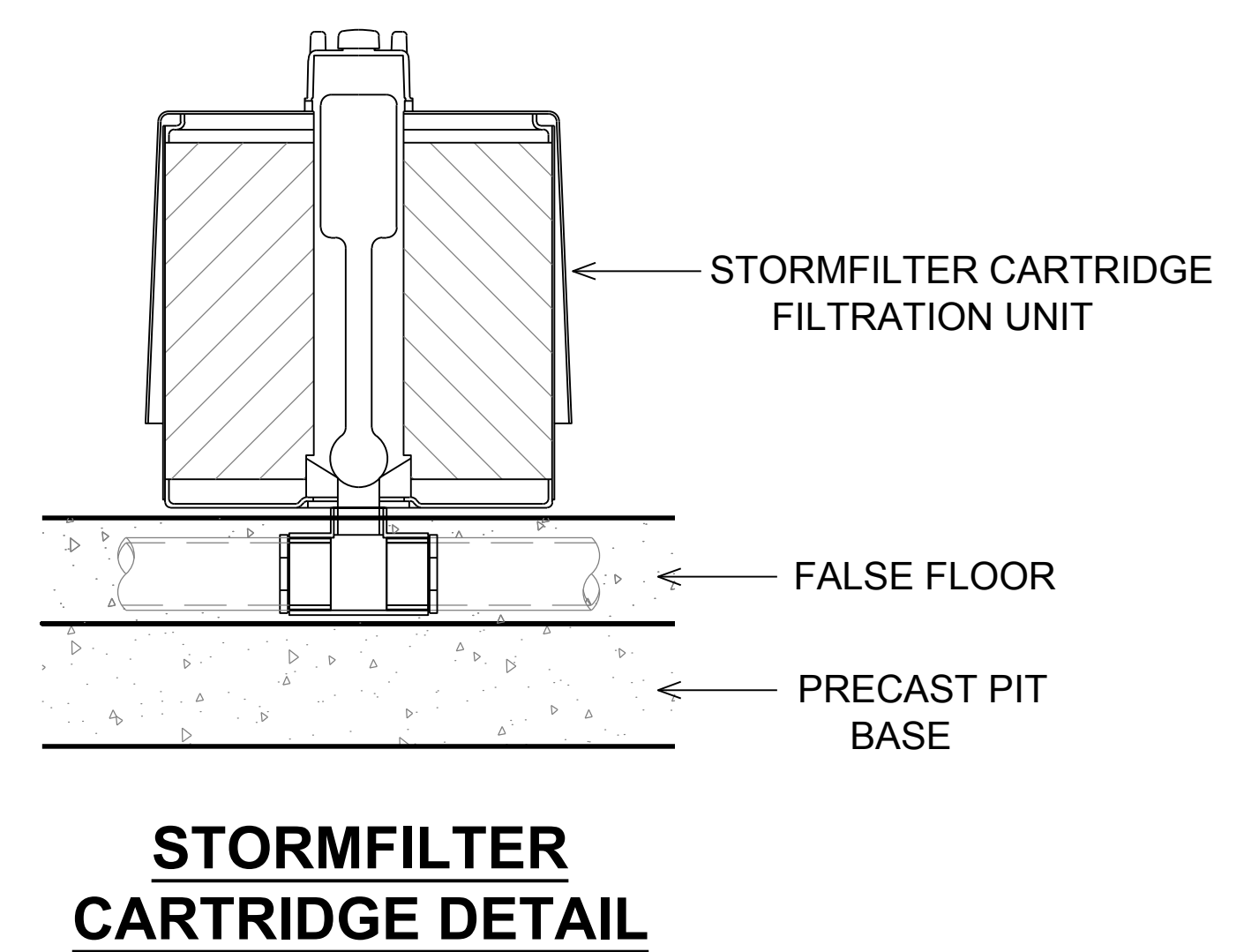


TITLE

LANDSCAPING
SECTIONS AND DETAILS
SHEET 2

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JOB NUMBER 19028		DRAWING NUMBER C2002	REVISION P1
DATE 19.03.21	SCALE @ A1 1:20 U.N.O.	CERTIFIED	
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User: X-6906000-TB_A1H
 Login Name: NGupta
 Log Date: 22.03.2021@10:14:24
 Cad File: T:\6906000\Drawings\AutoCAD\CivilDesign\Civil 2D\Main Works\CS-TD-C6.07 Stormwater Treatment Devices Typical Details.dwg

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STORMWATER TREATMENT DEVICES TYPICAL DETAILS

SCALE AS SHOWN	DRAWN M.T.	DESIGNED M.Cz.	CHECKED J.G.	APPROVED M.C.
JOB No. 6906000		DRAWING No. CS-TD-C6.07		ISSUE 2
DATE JULY 2020		STATUS 75% DETAILED DESIGN		