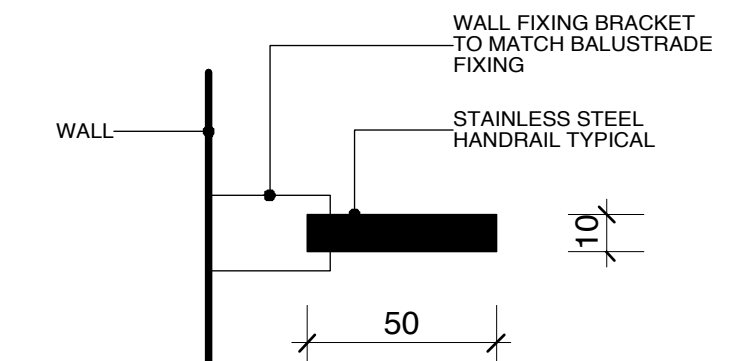
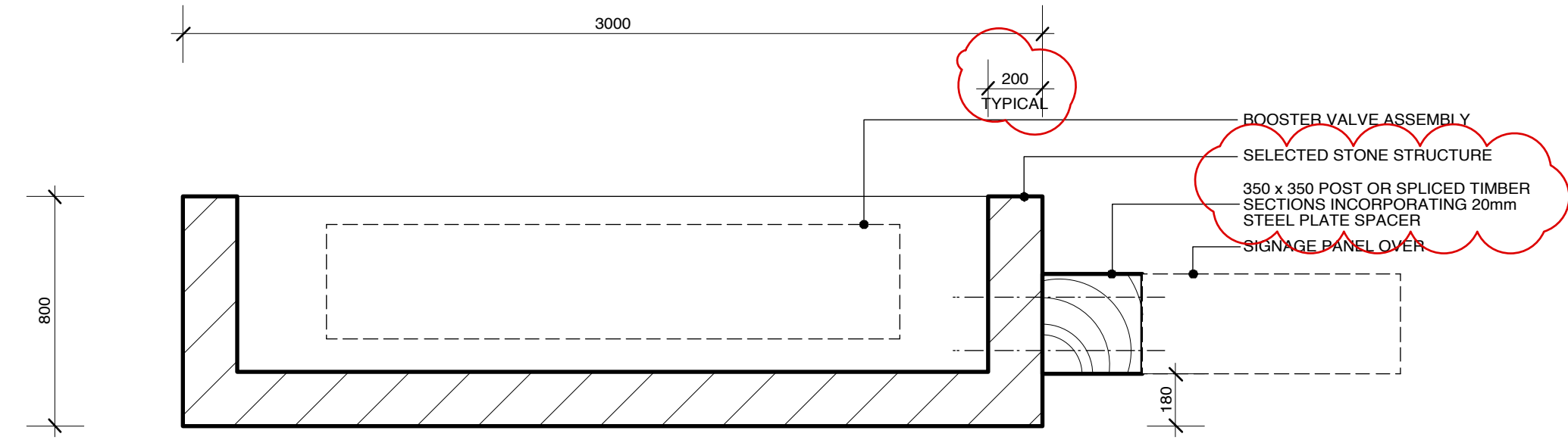


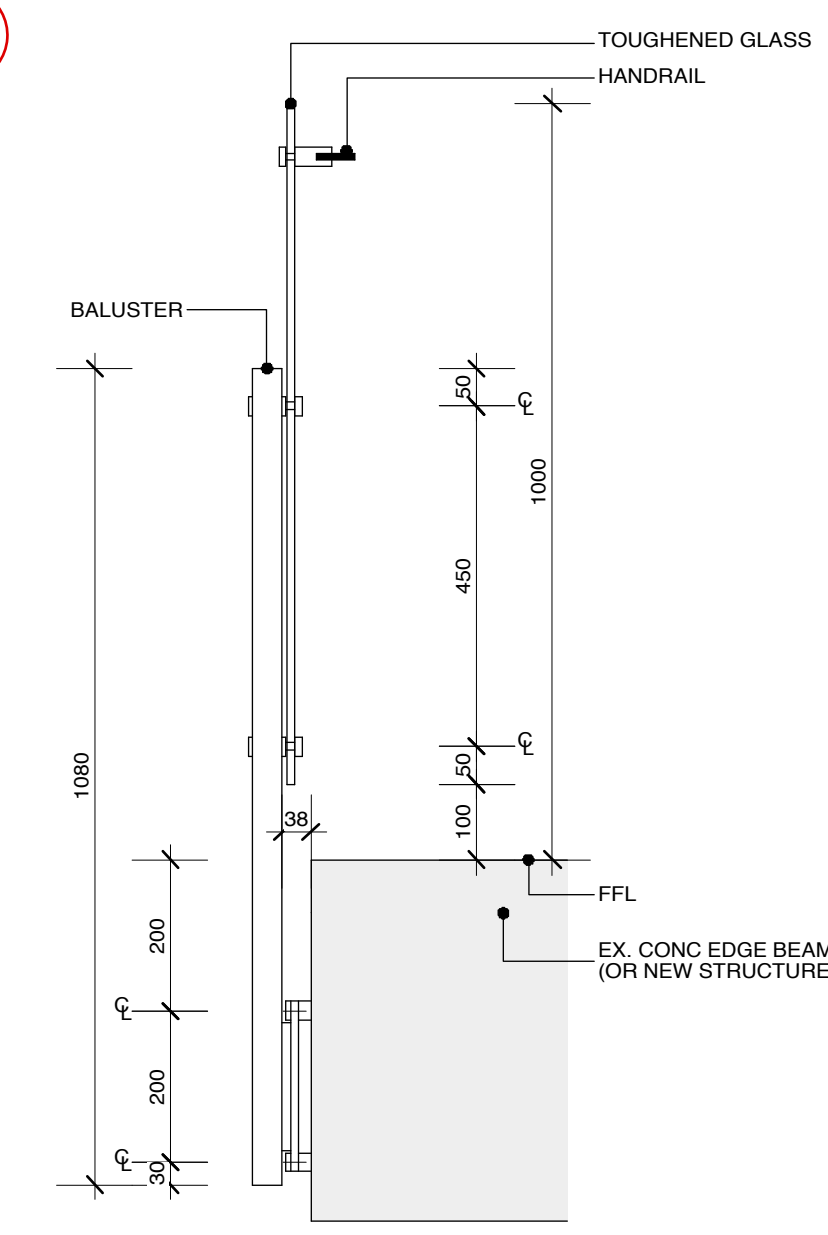
handrail to stair
TYPICAL DETAIL



handrail to wall
TYPICAL DETAIL



plan
SIGNAGE DETAILS



typical balustrade
DETAIL U

F
503

signage + balustrade
DETAILS

ARCHITECTS EDMISTON JONES
is the trading name of
TILMENT PTY LTD (ACN 003 163 451)
THIS DRAWING ALWAYS REMAINS THE COPYRIGHT OF
ARCHITECTS EDMISTON JONES AND SHALL NOT BE USED
OTHER THAN FOR THE PROJECT INTENDED WITHOUT
WRITTEN AUTHORITY.
LEVELS SHOWN ON PLAN ARE APPROXIMATE ONLY AND
SHALL BE VERIFIED ON SITE BEFORE CONSTRUCTION
COMMENCES.
USE FIGURED DIMENSIONS IN PREFERENCE TO SCALE.
VERIFY ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION
COMMENCES.

LEGEND

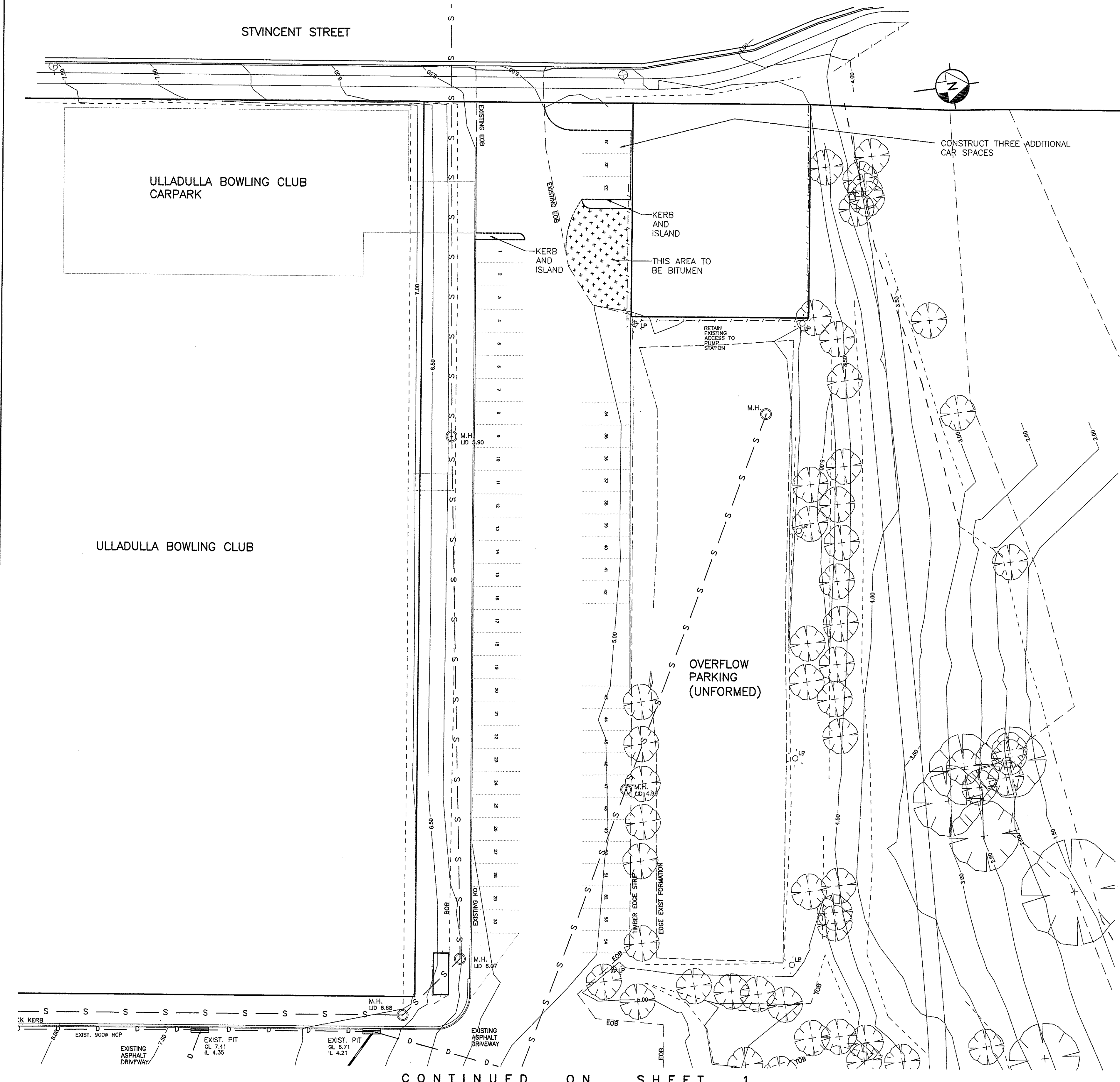
REV.	DESCRIPTION	DATE
A	TENDER ISSUE Sign detail amended	9/11/12 12/2/13

ARCHITECTS
EDMISTON JONES
Wollongong 10 Belmore Street Wollongong NSW 2500
Nowra 92 North Street Nowra, NSW 2541
Batemans Bay 1 North Street Batemans Bay NSW 2536
T 02 4421 6822 F 02 4422 1963
F 02 4226 1387 F 02 4226 6405 W www.oaj.com.au

PROJECT
Alteration and Addition to
Ulladulla Civic Centre
CLIENT
Shoalhaven City Council
SITE
Princes Highway, Ulladulla

DRAWING
Signage + Balustrade Details
JOB NO
12-0027
SCALES 1:20 / 1:10 A1 SHEET NO. REV.
DATE NOV 2012 509 A
DRAWN AEJ
CHECKED SB / GR No. IN SET 31

12/2/13 12-0027 UCC CD TENDER Rev A.vwx



STORMWATER CALCULATIONS

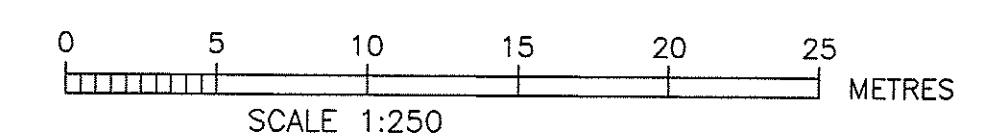
NOTE: EXISTING STORMWATER PIPES HAVE NOT BEEN CHECKED FOR STORMWATER FLOW FROM EXTERNAL CATCHMENTS

REFER TO SHEET 1 FOR LEGEND AND NOTES

TELSTRA
"BEFORE YOU DIG"
BEWARE Damage to telephone cables can disrupt communication services and cost YOU money. For prompt location of telephone cables ring - 1100
Calls to this number are free

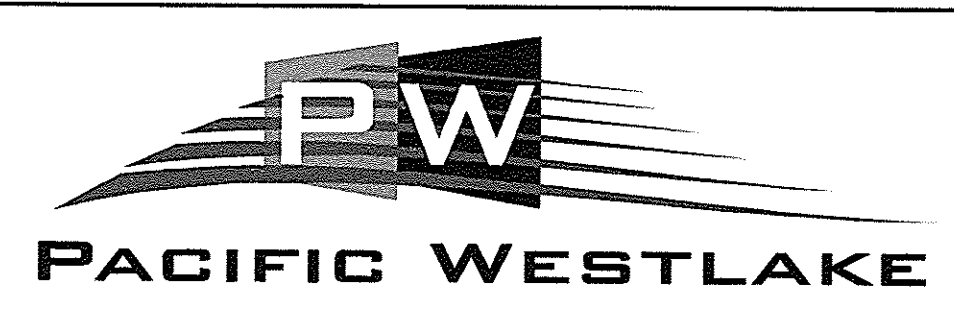
WARNING
NOT ALL UTILITY SERVICES ARE SHOWN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ACCURATELY LOCATE AND PROTECT SERVICES WITHIN THE ROAD RESERVE.

FOR DA APPROVAL



THIS DRAWING AND THE CONCEPTS CONTAINED THEREIN ARE THE PROPERTY OF PACIFIC WESTLAKE PTY. LTD. NO UNAUTHORISED COPYING IS PERMITTED. NO STRUCTURE IS TO BE CONSTRUCTED BASED ON THIS DRAWING, OR PART OF THIS DRAWING, WITHOUT THE WRITTEN PERMISSION OF PACIFIC WESTLAKE PTY. LTD.
ALL DIMENSIONS SHALL BE VERIFIED ON SITE. WHERE DIMENSIONS DIFFER FROM THOSE SHOWN ON ARCHITECTURAL DETAILS, DIRECTION SHALL BE OBTAINED FROM PACIFIC WESTLAKE P/L.
DO NOT SCALE - NO RESPONSIBILITY WILL BE TAKEN BY PACIFIC WESTLAKE P/L FOR ANY DISCREPANCIES CAUSED BY SCALING THESE DRAWINGS.

Rev.	Amendments	Approved	Date
B	FOR 90% COMPLETE DA SUBMISSION	S.P.	14.9.12
C	FOR 90% COMPLETE DA SUBMISSION revised for changes to architectural layout	S.P.	21.9.12



Structural and Civil Engineers
PO Box 1573 NOWRA 2541
Ph 44235533 Fax 44229799
Email office@pacificwestlake.com

STORMWATER DRAINAGE PLAN - SHT 2 OF 2
ALTERATION AND ADDITION TO ULLADULLA CIVIC CENTRE
SHOALHAVEN CITY COUNCIL
PRINCES HIGHWAY, ULLADULLA

Design:	S. Punnett
Drawn:	S. Punnett
Checked:	
Date:	5/9/2012
Drawing No.	12196-C02
Rev	C

SUBGRADE NOTES

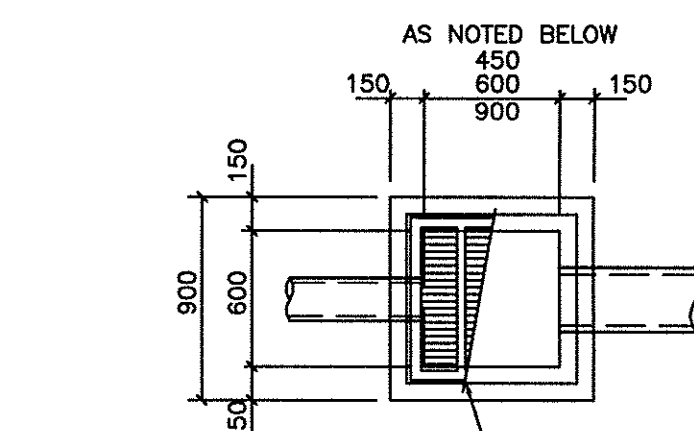
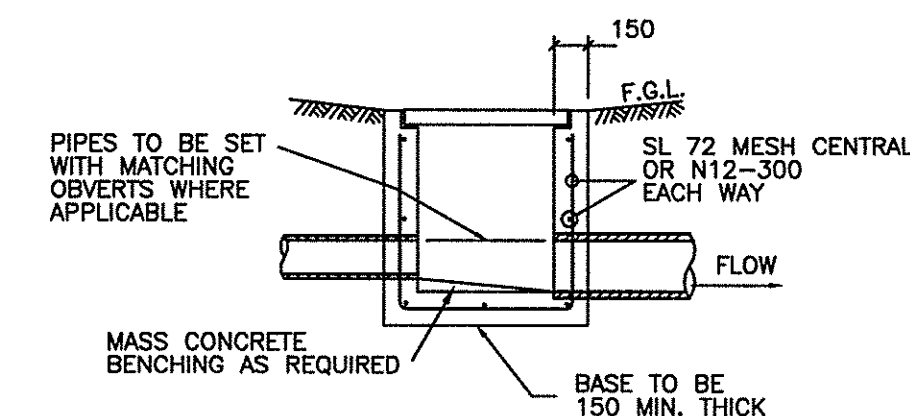
1. BULK EARTHWORKS TO BE COMPLETED IN ACCORDANCE WITH CONTRACT PLANS PROVIDED. FOLLOWING ESTABLISHMENT ON SITE CONTRACTOR TO PROOF ROLL EXPOSED SUBGRADE IN THE PRESENCE OF THE GEOTECHNICAL ENGINEER TO CONFIRM THAT THE REQUIREMENTS OF THE SPECIFICATION HAVE BEEN MET.
2. THE SUBGRADE IS TO BE COMPACTED TO ACHIEVE A MINIMUM 98% STANDARD MAXIMUM DRY DENSITY, (AS1289E1.1), AT A MOISTURE CONTENT WITHIN 2% OF STANDARD OPTIMUM, OR ALTERNATIVE INSTRUCTION IS TO BE OBTAINED FROM THE GEOTECHNICAL ENGINEER.
3. REMOVE ANY SOFT, HEAVING, WET OR UNSTABLE AREAS IDENTIFIED DURING PROOF ROLLING AND REPLACE USING SELECT IMPORTED FILL COMPACTED IN LAYERS NOT EXCEEDING 200MM MEASURED LOOSE TO ACHIEVE 98% STANDARD COMPACTION AS SPECIFIED ABOVE. OBTAIN WRITTEN APPROVAL FROM CLIENT PRIOR TO PROCEEDING WITH THE ABOVE WORK.
4. ANY FILL REQUIRED TO RAISE LEVELS TO UNDERSIDE OF PROPOSED SLAB OR PAVEMENT FORMATION TO BE APPROVED GRANULAR MATERIAL COMPACTED IN LAYERS NOT EXCEEDING 200MM MEASURED LOOSE TO ACHIEVE A MINIMUM 98% STANDARD MAXIMUM DRY DENSITY AT A MOISTURE CONTENT WITHIN 2% OF STANDARD OPTIMUM.
5. IMPORTED FILL IS TO CONSIST OF IMPORTED WELL-GRADED MATERIAL WITH A MAXIMUM PARTICLE SIZE OF 75MM, WITH 80% LESS THAN 20MM, AND A SOAKED C.B.R. GREATER THAN 15% AND PLASTICITY INDEX LESS THAN 12%.
6. BACKFILLING FOR SERVICE TRENCHES UNDER SLABS AND PAVEMENTS SHALL BE APPROVED WELL-GRADED GRANULAR MATERIAL EITHER SELECT INSITU OR IMPORTED FILL COMPACTED AS SPECIFIED ABOVE.
7. DO NOT PROCEED WITH ANY EARTHWORKS WHICH WILL BE SUBJECT TO A VARIATION CLAIM WITHOUT PRIOR APPROVAL FROM CLIENT. VARIATIONS FOR EARTHWORKS WILL NOT BE APPROVED UNLESS FORMAL INSTRUCTION, INCLUDING VARIATION VOLUMES, IS OBTAINED FROM ENGINEER.

PAVEMENT NOTES

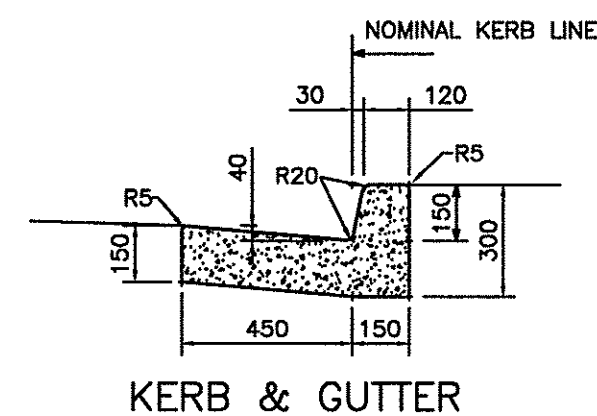
1. PAVEMENT DETAILS HAVE BEEN DESIGNED ASSUMING A SUBGRADE WITH A MINIMUM SOAKED C.B.R. OF 7% (SEE NOTE 4). TESTING IS REQUIRED TO CONFIRM ADOPTED DESIGN C.B.R.
2. BASE COURSE SHALL BE COMPACTED TO 98% MODIFIED MAXIMUM DRY DENSITY AS A MOISTURE CONTENT WITHIN 2% OF STANDARD OPTIMUM, MINIMUM SOAKED C.B.R. 80% UNO.
3. SUB BASE COURSE SHALL BE COMPACTED TO 95% MODIFIED MAXIMUM DRY DENSITY, MINIMUM SOAKED C.B.R. 45% UNO.
4. SUBGRADE SHALL BE APPROVED NATURAL SUBGRADE OR IMPORTED FILL, PROOF ROLL AND COMPACTED TO 98% STANDARD MAXIMUM DRY DENSITY UNO.
5. MINIMUM CONCRETE STRENGTH FOR PAVEMENTS SHALL BE $F_c = 32 \text{ MPa}$ AT 28 DAYS AND $F_{50} \text{ FLEXURAL} = 4.25 \text{ MPa}$.
6. FILL MATERIALS WHICH ARE PRONE TO ACCELERATED WEATHERING WILL NOT BE ACCEPTED EG. SOME MUDSTONES, CLAYSTONES, SILTSTONES, SHALES AND OTHER ROCKS. ENDORSEMENT OF THE SUITABILITY OF THE PROPOSED FILLING MATERIAL IS TO BE MADE BY A GEOTECHNICAL ENGINEER PRIOR TO APPROVAL.
7. IT IS THE INTENT THAT PAVING SHALL BE DESIGNED FOR THE FOLLOWING MINIMUM TRAFFIC LOADINGS:
 - 7.1. DRIVEWAY CONCRETE PAVEMENT 1 - $1 \times 10^5 \text{ ESA}$
 - 7.2. PARKING AREA - $2 \times 10^4 \text{ ESA}$
 - 7.3. DRIVEWAY CONCRETE PAVEMENT 2 - $1 \times 10^6 \text{ ESA}$
 - 7.4. YALWAL ROAD PAVEMENT 1 - 1×10^6

KERB NOTES

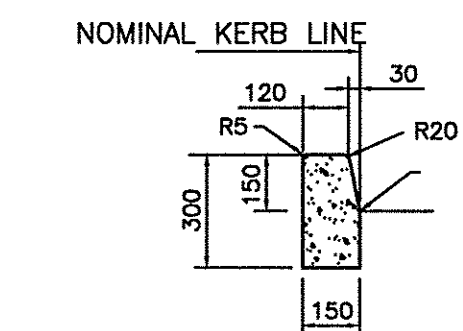
1. KERB PROFILE DIMENSIONS ARE INDICATED AS A GUIDE ONLY, AND MAY BE VARIED BY CIVIL ENGINEER TO SUIT STATE ROAD AND LOCAL GOVERNMENT SPECIFICATIONS.
2. MINIMUM CONCRETE STRENGTH FOR KERBS SHALL BE $F_c = 25 \text{ MPa}$ AT 28 DAYS.
3. PROVIDE FULL DEPTH CONTRACTION JOINTS AT 2400 CTS. MAX. BY USING 3mm STEEL TEMPLATE. JOINTS SHALL COINCIDE WITH PAVEMENT JOINTS WHERE POSSIBLE.
4. ROAD BASE COURSE TO EXTEND BENEATH AND 300mm BEYOND THE FACE OF KERB AND GUTTERING, APRONS AND CROSSINGS.



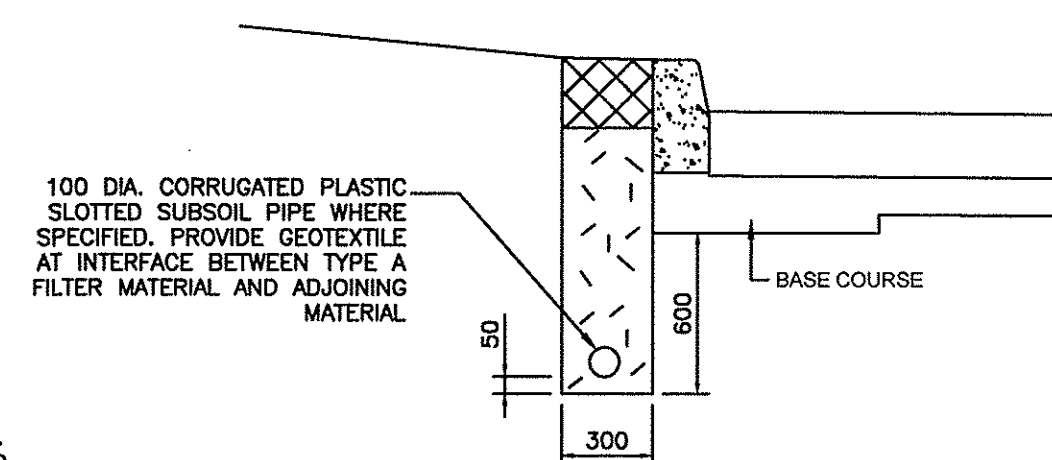
TYPICAL SURFACE INLET PIT
NOTE: DEPTHS OF 450 SQUARE PITS NOT TO EXCEED 600 DEEP. DEPTHS OF 600 SQUARE PITS NOT TO EXCEED 900 DEEP, OTHERWISE INCREASE ONE DIRECTION BY 300. (ie : 600x900 PIT). PITS TO BE 900 SQUARE WHERE DEPTH TO INVERT EXCEEDS 1200.
CLIMB IRONS SHALL BE PROVIDED UNDER LID AT 300 CTRS TO COUNCIL STANDARDS WHERE PIT DEPTH IS DEEPER THAN 1200.
CONCRETE STRENGTH $F_c = 20 \text{ MPa}$



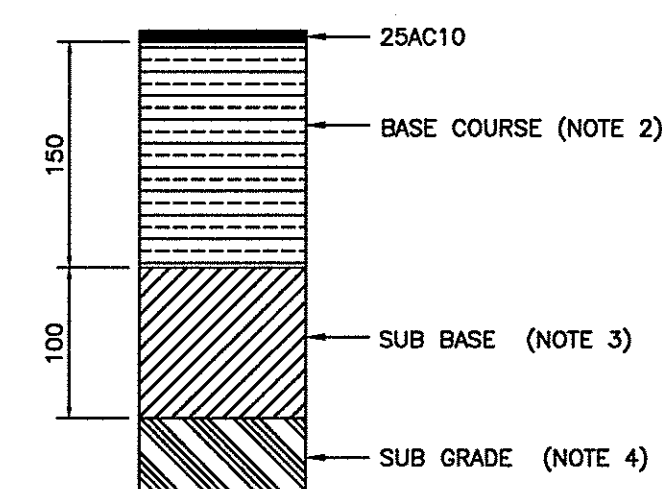
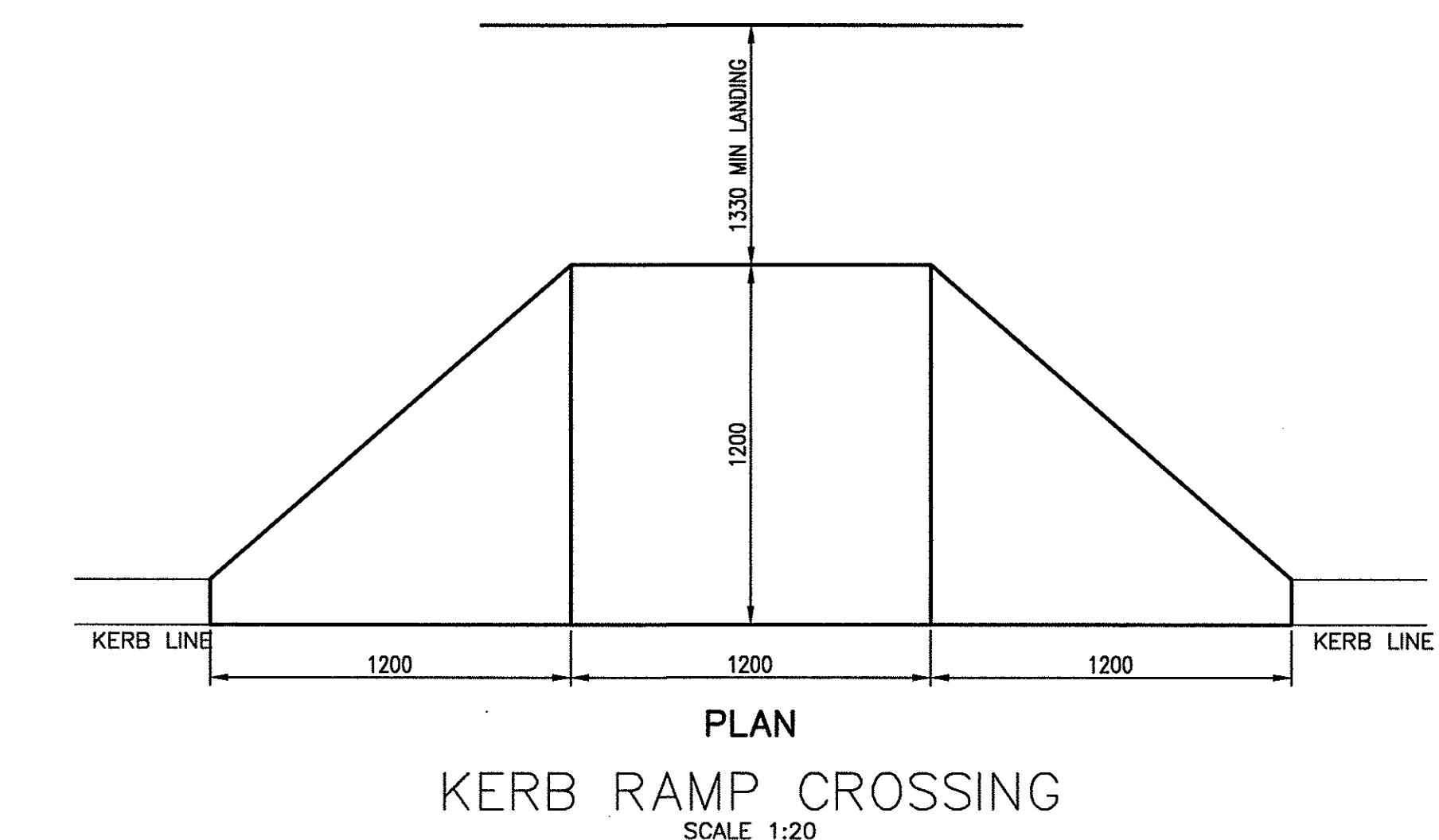
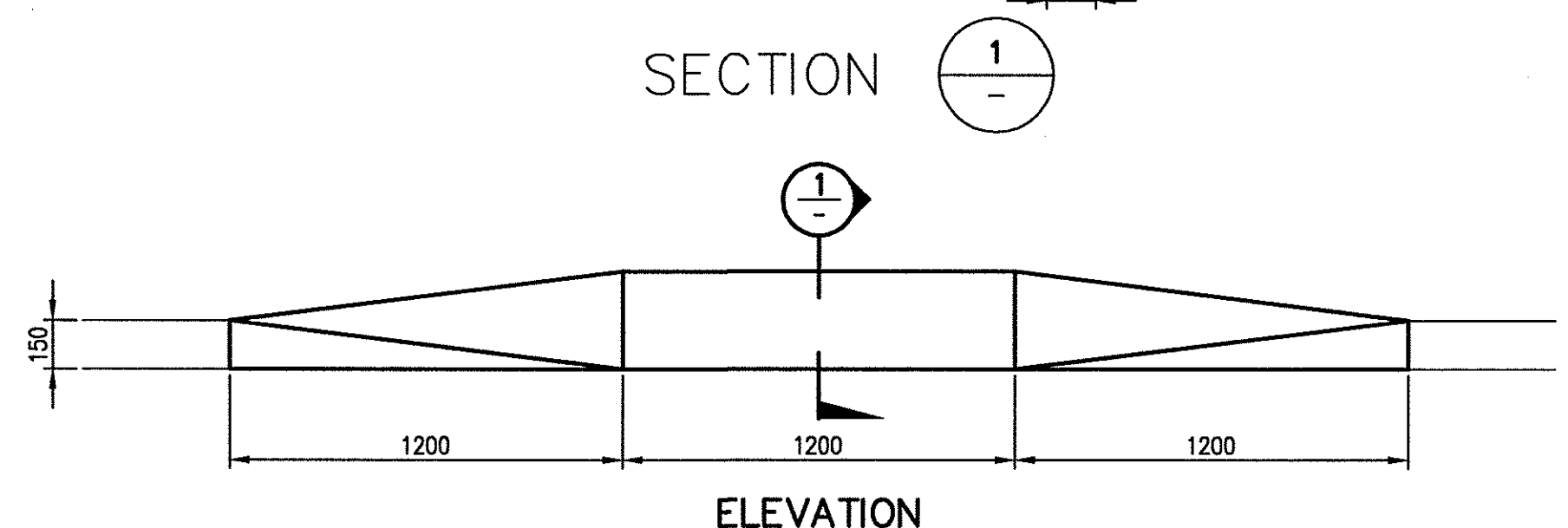
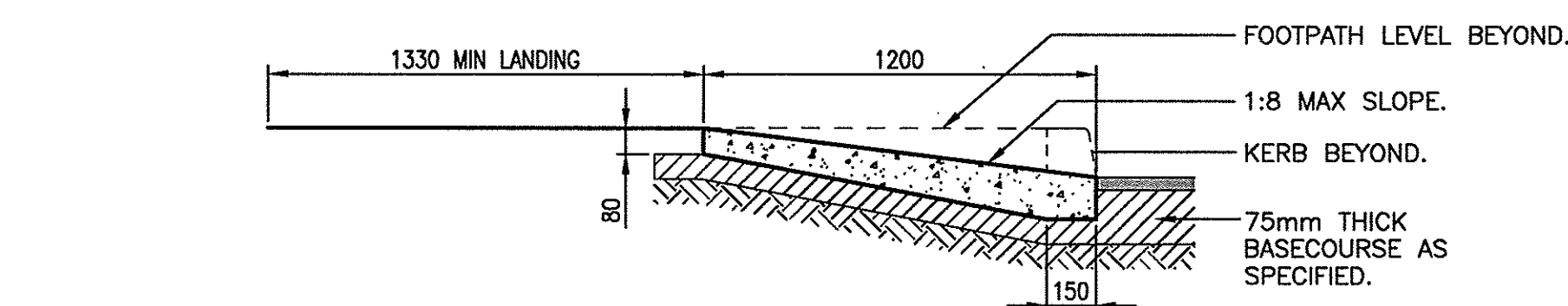
KERB & GUTTER



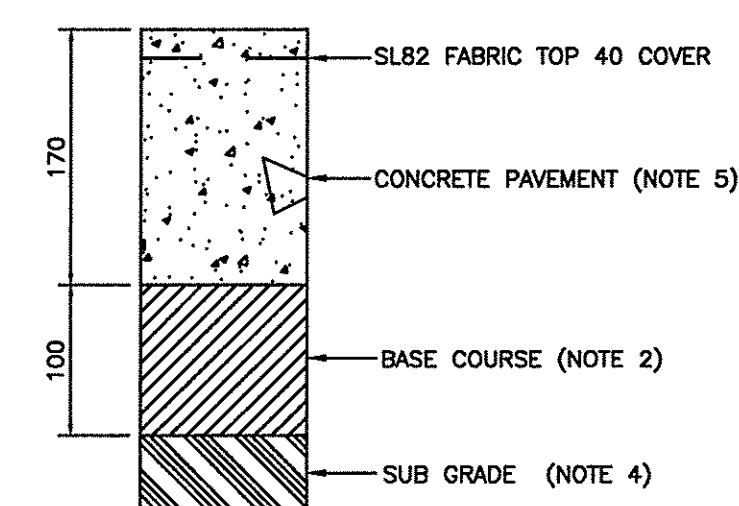
KERB ONLY



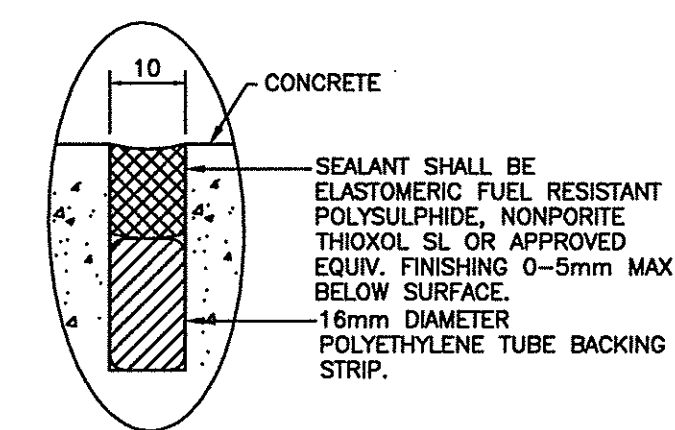
SUBSOIL DRAINAGE DETAIL
N.T.S.



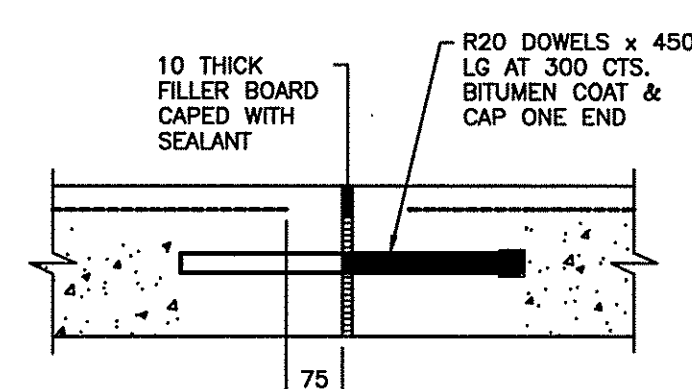
FLEXIBLE PAVEMENT DETAIL
N.T.S.



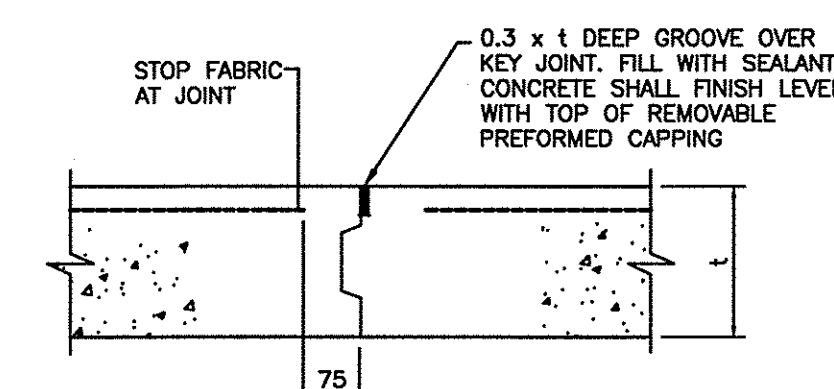
DRIVEWAY CONCRETE PAVEMENT
N.T.S.



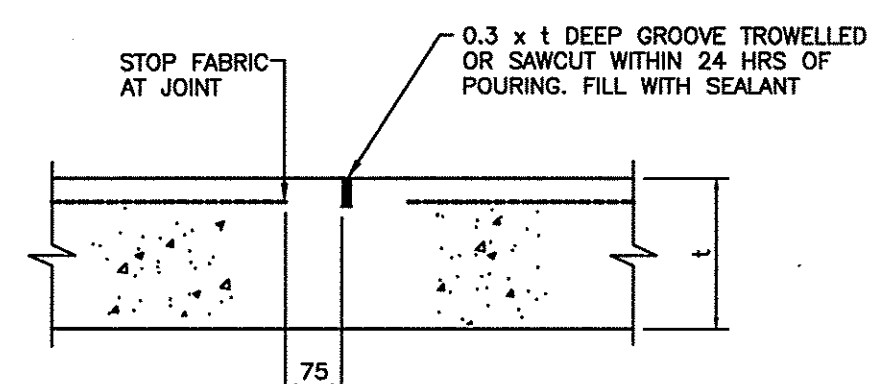
SEALANT DETAIL



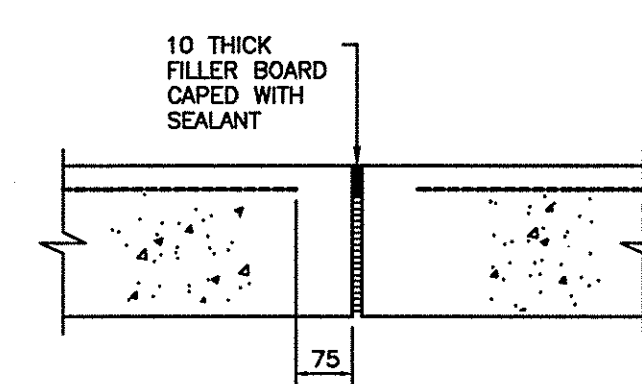
DOWelled JOINT (DJ)
SCALE 1:5



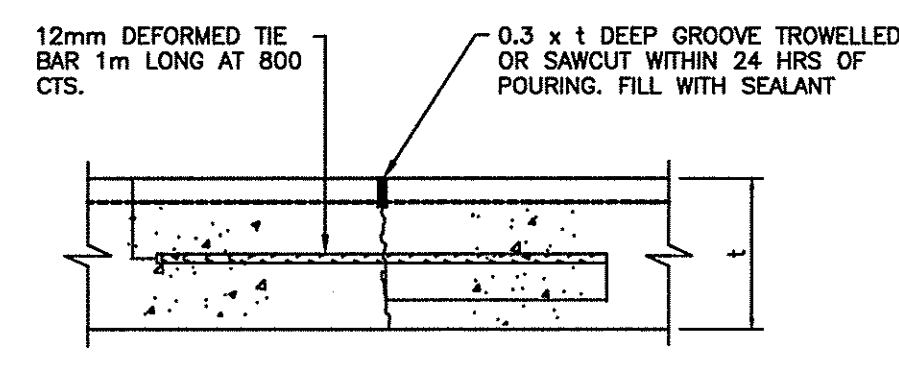
KEY JOINT (KJ)



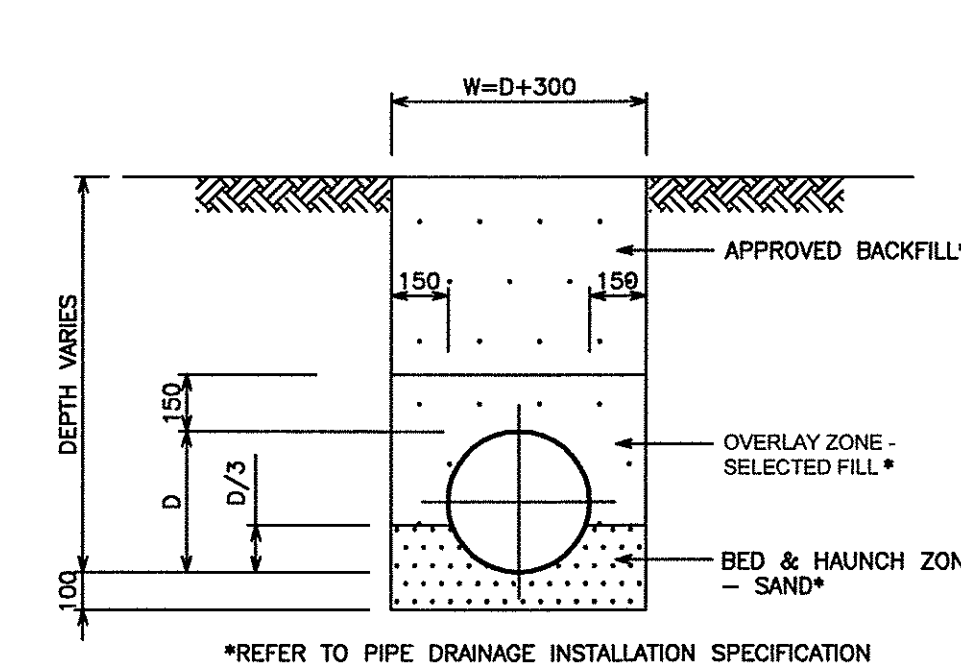
CONTROL JOINT (CJ)



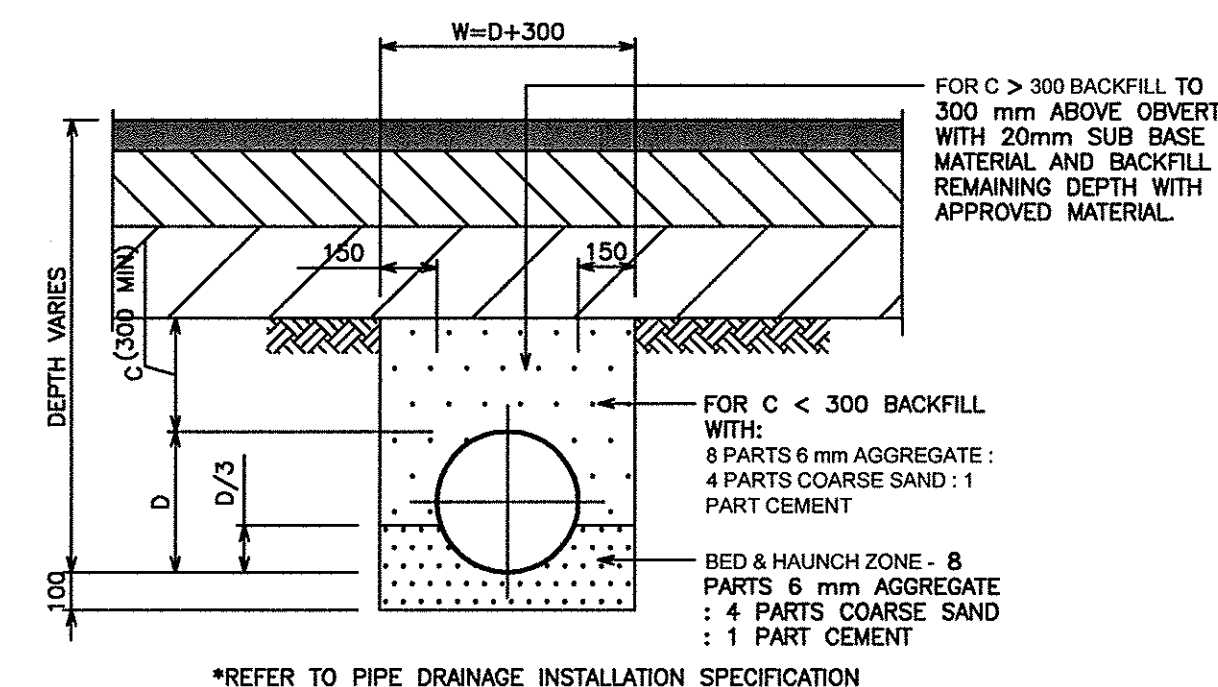
EXPANSION JOINT (EJ)



LONGITUDINAL JOINT (LJ)



STORMWATER PIPE BEDDING
NOT UNDER PAVEMENT

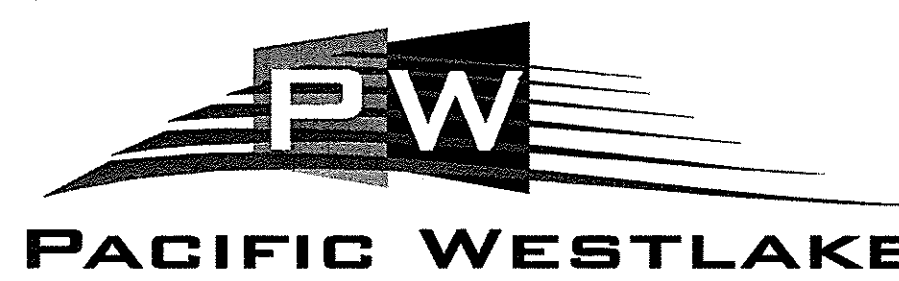


STORMWATER PIPE BEDDING
UNDER PAVEMENT

FOR DA APPROVAL

THIS DRAWING AND THE CONCEPTS CONTAINED THEREIN ARE THE PROPERTY OF PACIFIC WESTLAKE PTY. LTD. NO UNAUTHORISED COPYING IS PERMITTED. NO STRUCTURE IS TO BE CONSTRUCTED BASED ON THIS DRAWING, OR PART OF THIS DRAWING, WITHOUT THE WRITTEN PERMISSION OF PACIFIC WESTLAKE PTY. LTD. ALL DIMENSIONS SHALL BE VERIFIED ON SITE. WHERE DIMENSIONS DIFFER FROM THOSE SHOWN ON ARCHITECTURAL DETAILS, DIRECTION SHALL BE OBTAINED FROM PACIFIC WESTLAKE P/L. DO NOT SCALE - NO RESPONSIBILITY WILL BE TAKEN BY PACIFIC WESTLAKE P/L FOR ANY DISCREPANCIES CAUSED BY SCALING THESE DRAWINGS.

Rev.	Amendments	Approved	Date
B	FOR 90% COMPLETE DA SUBMISSION	S.P.	14.9.12



Structural and Civil Engineers
PO Box 1573 NOWRA 2541
Ph 44235533 Fax 44229799
Email office@pacificwestlake.com

CONSTRUCTION DETAILS			
Design:	S. Punnett		
Drawn:	S. Punnett		
Checked:			
Date:	2/4/2012		
Drawing No.	12196-C03	Rev	B

ALTERATION AND ADDITION TO ULLADULLA CIVIC CENTRE
SHOALHAVEN CITY COUNCIL
PRINCES HIGHWAY, ULLADULLA

SOIL AND WATER MANAGEMENT NOTES

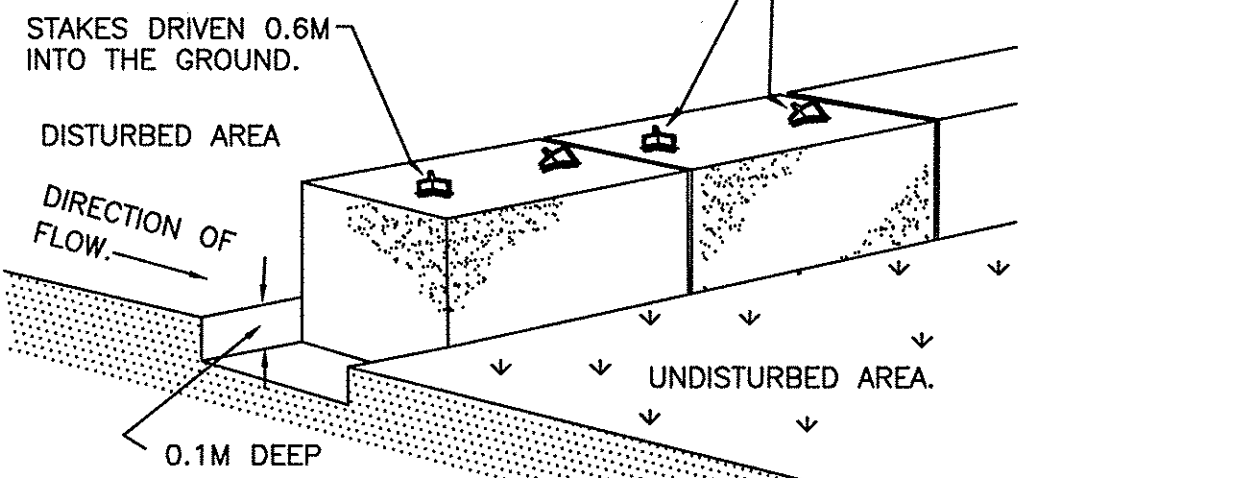
1. THE SOIL AND WATER MANAGEMENT PLAN IS TO BE READ IN CONJUNCTION WITH THE ENGINEERING PLANS AND COUNCIL'S WRITTEN GUIDELINES FOR THE DEVELOPMENT OF LAND.
2. CONTRACTORS SHALL ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE UNDERTAKEN AS SPECIFIED ON THE PLAN AND IN ACCORDANCE WITH THE GUIDELINES SHOWN IN 'MANAGING URBAN STORMWATER - SOILS AND CONSTRUCTION 4TH EDITION 2004' (THE BLUE BOOK).
3. ALL CONTRACTORS AND SUBCONTRACTORS ARE RESPONSIBLE FOR REDUCING THE SOIL EROSION AND POLLUTION OF DOWNSLOPE AREAS.
4. THE SOIL EROSION HAZARD ON THE SITE IS TO BE KEPT AS LOW AS POSSIBLE AND GENERALLY IN ACCORDANCE WITH THE FOLLOWING SCHEDULE.

LAND USE	LIMITATION	COMMENTS
CONSTRUCTION AREAS	DISTURBANCE TO BE NO FURTHER THAN 5m (pref.2m) FROM THE EDGE OF ANY ESSENTIAL ENGINEERING ACTIVITY AS SHOWN ON THESE PLANS	ALL SITE WORKERS WILL CLEARLY RECOGNISE THESE ZONES - WHERE APPROPRIATE THE CONSTRUCTION AREAS ARE TO BE IDENTIFIED WITH BARRIER FENCING (UPSLOPE) & SEDIMENT FENCING (DOWNSLOPE) OR SIMILAR MATERIAL.
ACCESS AREAS	LIMITED TO A MAX. WIDTH OF 10m.	THE SITE MGR. SHALL DETERMINE AND MARK THE LOCATION OF THESE ZONES ONSITE. THEY CAN VARY IN POSITION TO BEST CONSERVE THE EXISTING VEGETATION AND PROTECT DOWNSLOPE AREAS WHILE BEING CONSIDERATE OF THE NEEDS OF EFFICIENT WORKS ACTIVITIES. ALL SITE WORKERS SHALL CLEARLY RECOGNISE THEIR BOUNDARIES - WHERE APPROPRIATE THE ACCESS AREAS ARE TO BE MARKED WITH BARRIER MESH, SEDIMENT FENCING OR SIMILAR MATERIALS.
REMAINING LANDS	ENTRY PROHIBITED EXCEPT FOR ESSENTIAL THINNING OF PLANT GROWTH.	THINNING OF GROWTH MAY BE REQUIRED FOR FIRE HAZARD REDUCTION

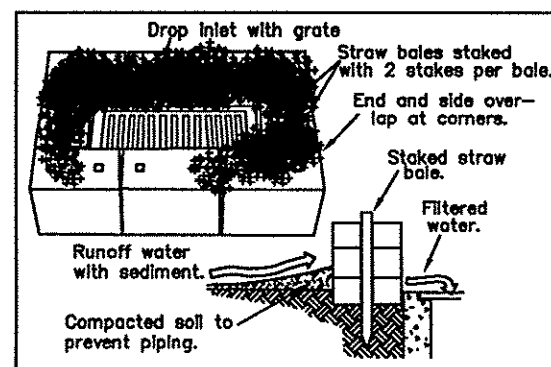
NOTE: WORKS WITHIN WATERWAYS AND CREEKS SHALL BE RESTRICTED AS DIRECTED - ALL LANDS WITHIN CREEKS AND WATERWAYS SHALL HAVE C-FACTORS BELOW 0.05 FROM 1 JAN. TO 15 MAY USING MATERIALS THAT CAN CATER FOR CONCENTRATED FLOWS.

5. WORKS ARE TO BE UNDERTAKEN IN THE FOLLOWING SEQUENCE. EACH SUBSEQUENT STAGE IS NOT TO COMMENCE UNTIL THE PREVIOUS ONE IS COMPLETE.
- a) INSTALL ALL BARRIER AND AND SEDIMENT FENCING WHERE SHOWN ON THE PLAN AND TO DETAIL (SD) 6-8.
- b) CONSTRUCT STABILISED SITE ACCESS AS SHOWN ON THE PLAN AND TO DETAIL (SD) 6-14.
- c) CONSTRUCT LOW FLOW EARTH BANKS WHERE SHOWN ON THE PLAN AND TO DETAIL (SD) 5-5.
- d) PROVIDE TEMP. ACCESS TO THE SEDIMENT BASINS AND PROTECT THIS WITH SEDIMENT FENCING (SD) 6-8 OR BARRIER FENCING AND EARTH BANKS (SD) 5-5.
- e) PLACE SEDIMENT FENCING (SD) 6-8 DOWNSLOPE OF LANDS TO BE DISTURBED FOR CONSTRUCTION OF SEDIMENT BASINS.
- f) CONSTRUCT SEDIMENT BASIN GENERALLY IN ACCORDANCE WITH (SD)6-4.
- g) STABILISE LAND SURFACES DISTURBED BY CONSTRUCTION OF THE SEDIMENT BASINS AS SOON AS FINAL LEVELS ARE ESTABLISHED.
- h) CLEAR THE SITE AND STRIP AND STOCKPILE THE TOPSOIL IN THE LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE SITE SUPERINTENDENT TO DETAIL (SD)4-1.
- i) UNDERTAKE ALL ESSENTIAL CONSTRUCTION WORKS.
- j) INSTALL MESH AND GRAVEL INLET PROTECTION (SD)8-11 FOR ADJACENT KERB INLETS NOT SHOWN.
- k) INSTALL GEOTEXTILE INLET FILTERS (SD)8-12 AROUND ALL DROP INLETS (NOT SHOWN).
- l) COMPLETE TRIMMING TO FINAL GRADES AND APPLY TURF TO DISTURBED AREAS WITHIN 5 DAYS OF COMPLETION OF CONSTRUCTION WORKS.
- m)REMOVE TEMPORARY EROSION CONTROL MEASURES AFTER THE PERMANENT LANDSCAPING HAS BEEN COMPLETED.

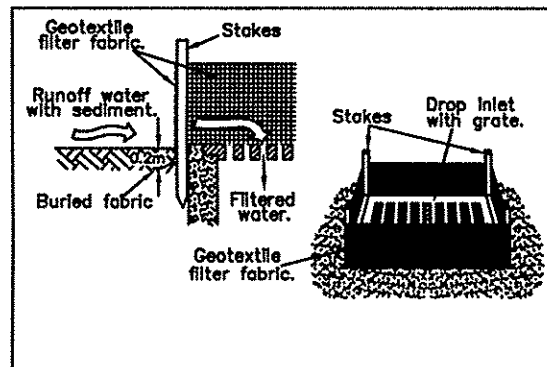
DRAINAGE AREA MAXIMUM 0.4HA.
SLOPE GRADIENT MAXIMUM1:2 . SLOPE LENGTH MAXIMUM 40M.



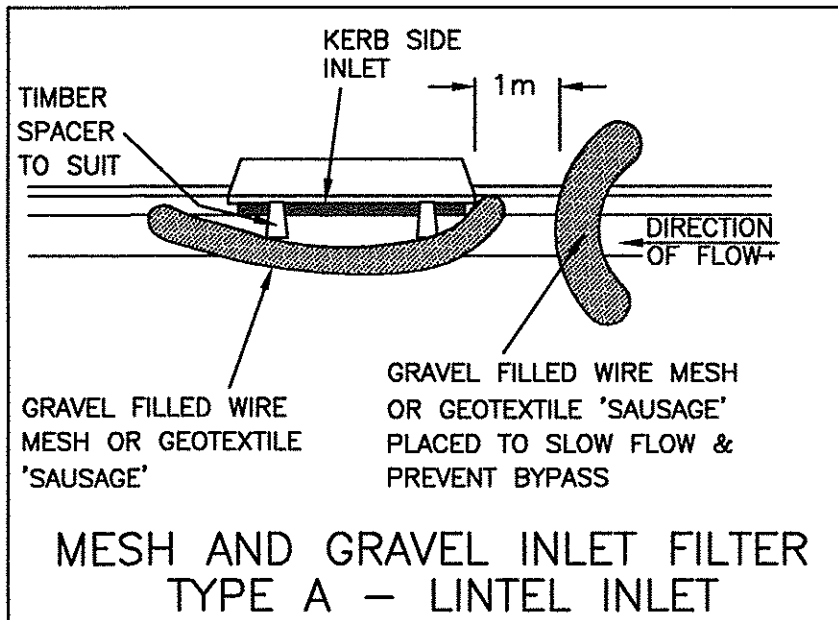
STRAW BALE SEDIMENT FILTER
NTS



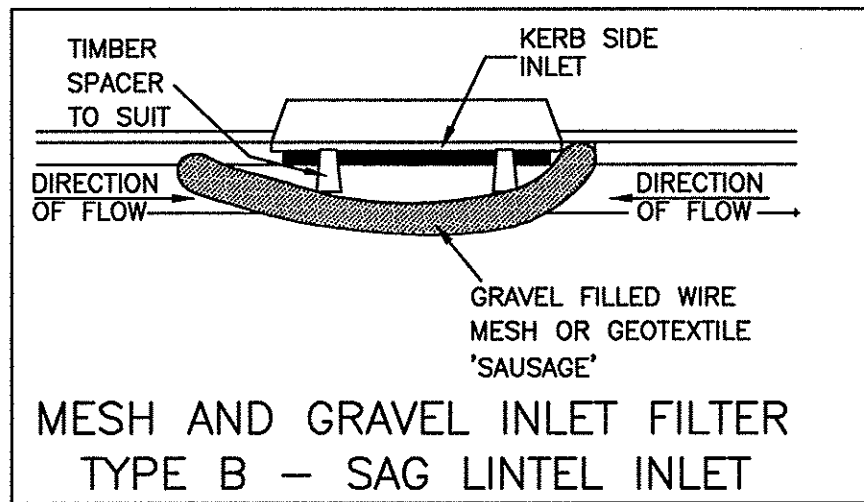
STRAW BALE DROP INLET
SEDIMENT TRAP



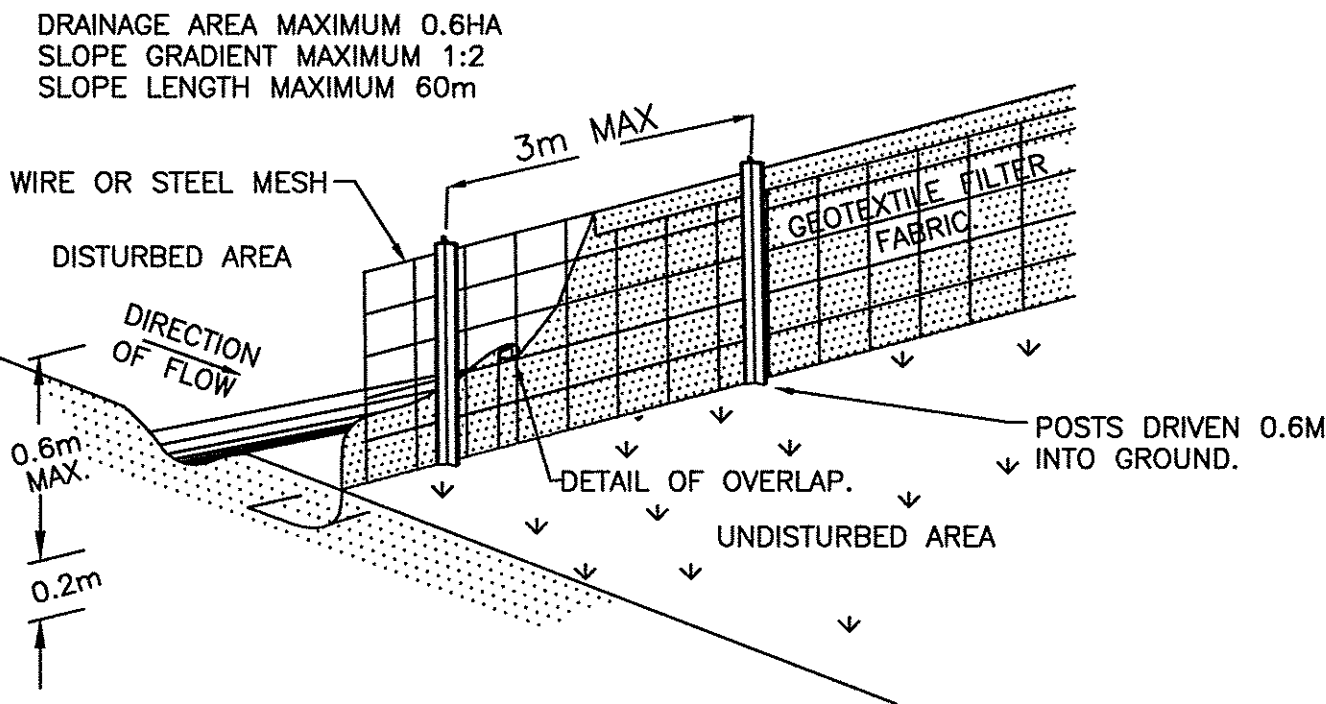
GEOTEXTILE FILTER FABRIC
DROP INLET SEDIMENT TRAP.



MESH AND GRAVEL INLET FILTER
TYPE A - LINTEL INLET



MESH AND GRAVEL INLET FILTER
TYPE B - SAG LINTEL INLET



SILT FENCE DETAIL
NTS

16. THE SEDIMENT RETENTION BASINS (SD) 6-4 SHALL:
- a) BE CONSTRUCTED WHERE SHOWN ON THE PLANS.
- b) BE FLOCCULATED (APPENDIX E MANAGING URBAN STORMWATER SOILS & CONSTRUCTION 3rd ED.) BEFORE DISCHARGE OCCURS (UNLESS THE DESIGN STORM EVENT IS EXCEEDED)
- c) HAVE ONE OR MORE PEGS PLACED ON THE FLOOR TO CLEARLY INDICATE THE LEVEL AT WHICH DESIGN CAPACITY OCCURS AND WHEN SEDIMENT SHALL BE REMOVED.

17. STORED CONTENTS OF THE BASINS SHALL BE TREATED WITH GYPSUM (APPENDIX E MANAGING URBAN STORMWATER SOILS & CONSTRUCTION 3rd ED.) OR OTHER FLOCCULATING AGENTS WHERE THEY CONTAIN MORE THAN 50mg/litre OF SUSPENDED SOLIDS. TREATMENT SHALL BE AS FOLLOWS:-
- a) LOWER SUSPENDED SOLIDS TO LESS THAN 50mg/litre WITHIN 24hrs OF FILLING
- b) THE BASINS SHALL THEN BE ALLOWED TO STAND 36 TO 48hrs FOR FLOCCULATED PARTICLES TO SETTLE
- c) THE BASINS SHALL THEN BE DRAINED SO THAT FULL STORAGE CAPACITY IS REGAINED WITHOUT DISCHARGING SEDIMENT FROM THE SITE.

18. SEDIMENT REMOVED FROM ANY TRAPPING DEVICE SHALL BE DISPOSED IN LOCATIONS WHERE FURTHER EROSION AND CONSEQUENT POLLUTION TO DOWNSLOPE LANDS AND WATERWAYS SHALL NOT OCCUR

19. WATER SHALL BE PREVENTED FROM DIRECTLY ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS IT IS RELATIVELY SEDIMENT FREE (ie THE CATCHMENT HAS BEEN LANDSCAPED AND/OR ANY LIKELY SEDIMENT HAS BEEN TREATED IN AN APPROVED DEVICE) NEVERTHELESS STORMWATER INLETS SHALL BE PROTECTED (SD)6-11 & 6-12

20. TEMPORARY SOIL AND WATER MANAGEMENT STRUCTURES SHALL BE REMOVED ONLY AFTER THE LANDS THEY ARE PROTECTING ARE STABILISED

21. ACCEPTABLE BINS SHALL BE PROVIDED FOR ANY CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHTWEIGHT WASTE MATERIALS AND LITTER. CLEARANCE SERVICES SHALL BE PROVIDED AT LEAST ONCE A WEEK.

SITE INSPECTION AND MAINTENANCE

22. A SELF AUDITING PROGRAM SHALL BE ESTABLISHED BASED ON A CHECK SHEET. A SITE INSPECTION USING THE CHECK SHEET SHALL BE MADE BY THE SITE MANAGER:-
- a) AT LEAST WEEKLY
- b) IMMEDIATELY BEFORE SITE CLOSURE
- c) IMMEDIATELY FOLLOWING RAINFALL EVENTS IN EXCESS OF 5mm IN ANY 24hr PERIOD. THE SELF AUDIT SHALL INCLUDE:-
- a) RECORDING THE CONDITION OF EVERY 'BEST MANAGEMENT PRACTICE'
- c) RECORDING MAINTENANCE REQUIREMENTS (IF ANY) FOR EACH 'BEST MANAGEMENT PRACTICE'
- d) RECORDING THE SITE WHERE SEDIMENT IS DISPOSED
- e) FORWARDING A SIGNED DUPLICATE OF THE COMPLETED CHECK SHEET TO THE PROJECT MANAGER/DEVELOPER FOR THEIR INFORMATION.

23. IN ADDITION A SUITABLY QUALIFIED PERSON SHALL BE RESPONSIBLE FOR OVERSEEING THE INSTALLATION AND MAINTENANCE OF ALL SOIL AND WATER MANAGEMENT WORKS IN THE SITE. THE PERSON SHALL BE REQUIRED TO SPEND A MIN. OF:-
- a) 2hrs ONSITE EACH FORTNIGHT UNTIL COMPLETION OF ROAD AND DRAINAGE WORKS AND/OR THE COMMISSIONING OF SEDIMENT BASINS/WATER QUALITY CONTROL FACILITIES AND DURING THE DECOMMISSIONING OF SAME AND/OR FINAL SITE STABILISATION. TO PROVIDE A SHORT MONTHLY WRITTEN REPORT.
- b) ONE HOUR ONSITE EACH 2 MONTHS DURING THAT PHASE WHERE THE DEVELOPERS RESPONSIBILITIES ARE LIMITED TO MAINTENANCE OF THE SEDIMENT DEVICES AND/OR SEDIMENT BASINS (ie DURING THE STAGE WHEN BUILDING WORKS CAN BE UNDERTAKEN TO PROVIDE A SHORT WRITTEN REPORT EACH 4 mths.
- THE RESPONSIBLE PERSON SHALL ENSURE THAT:-
- a) THIS PLAN IS BEING IMPLEMENTED CORRECTLY
- b) REPAIRS ARE BEING UNDERTAKEN AS REQUIRED
- c) ESSENTIAL MODIFICATIONS TO THIS PLAN ARE MADE IF AND WHEN NECESSARY AND EACH REPORT SHALL CERTIFY THAT WORKS HAVE BEEN CARRIED OUT ACCORDING TO THE APPROVED PLANS.

24. WASTE BINS SHALL BE EMPTIED AS NECESSARY. DISPOSAL OF WASTE SHALL BE IN A MANNER APPROVED BY THE SITE SUPERINTENDENT.

25. PROPER DRAINAGE OF THE SITE SHALL BE MAINTAINED. TO THIS END DRAINS (INCLUDING INLET AND OUTLET WORKS) SHALL BE CHECKED TO ENSURE THAT THEY ARE OPERATING AS INTENDED, ESPECIALLY THAT:-
- a) NO LOW POINTS EXIST WHICH CAN OVERTOP IN LARGE STORM EVENTS.
- b) AREAS OF EROSION ARE REPAIRED (eg LINED WITH SUITABLE MATERIAL) AND/OR VELOCITY OF FLOW IS REDUCED APPROPRIATELY THROUGH CONSTRUCTION OF SMALL CHECK DAMS OR INSTALLING ADDITIONAL DIVERSIONS UPSLOPE.
- c) BLOCKAGES ARE CLEARED (THESE MIGHT OCCUR BECAUSE OF SEDIMENT POLLUTIONS, SAND/SOIL/SPOIL BEING DEPOSITED IN OR TOO CLOSE TO THEM, BREACHED BY VEHICLE WHEELS etc)

26. SAND/SOIL/SPOIL MATERIAL PLACED CLOSER THAN 2m FROM HAZARD AREAS SHALL BE REMOVED. SUCH HAZARD AREAS INCLUDE ANY AREAS OF HIGH VELOCITY WATER FLOWS (eg WATERWAYS AND GUTTERS) PAVED AREAS AND DRIVEWAYS.

27. RECENTLY STABILISED LANDS SHALL BE CHECKED TO ENSURE THAT THE EROSION HAZARD HAS BEEN EFFECTIVELY REDUCED. ANY REPAIRS SHALL BE INITIATED AS APPROPRIATE.

28. EXCESSIVE VEGETATION GROWTH SHALL BE CONTROLLED THROUGH MOWING OR SLASHING.

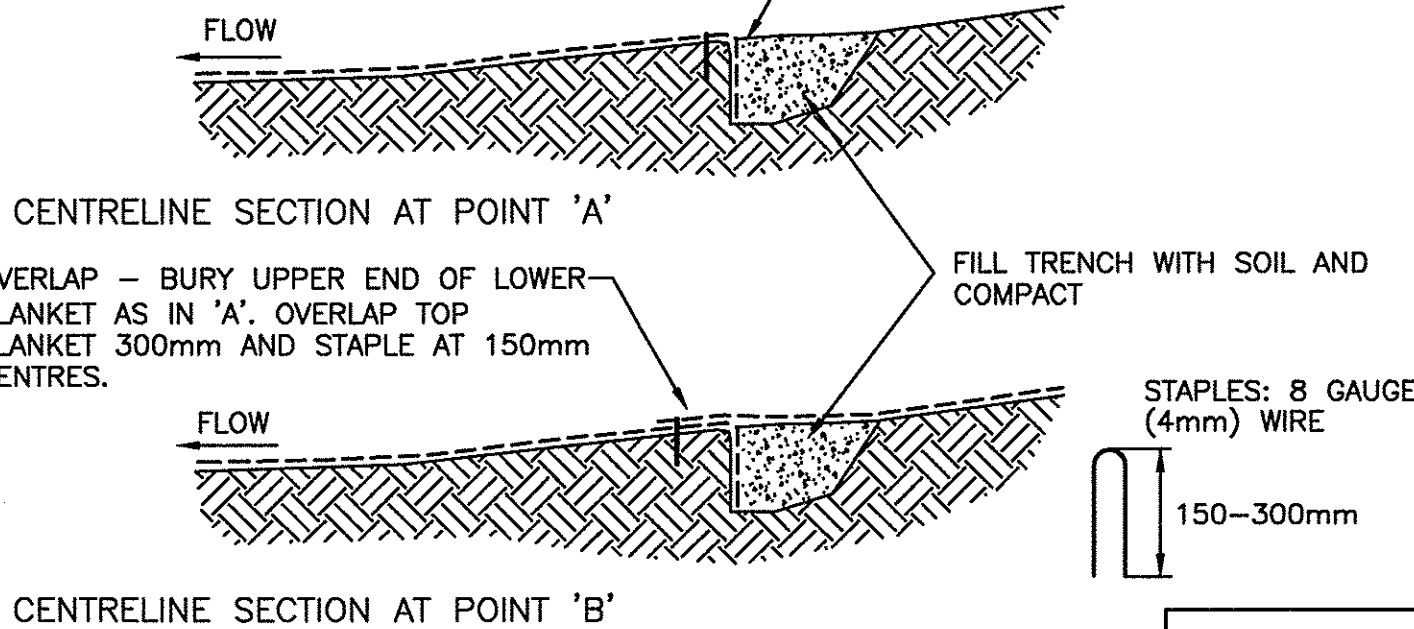
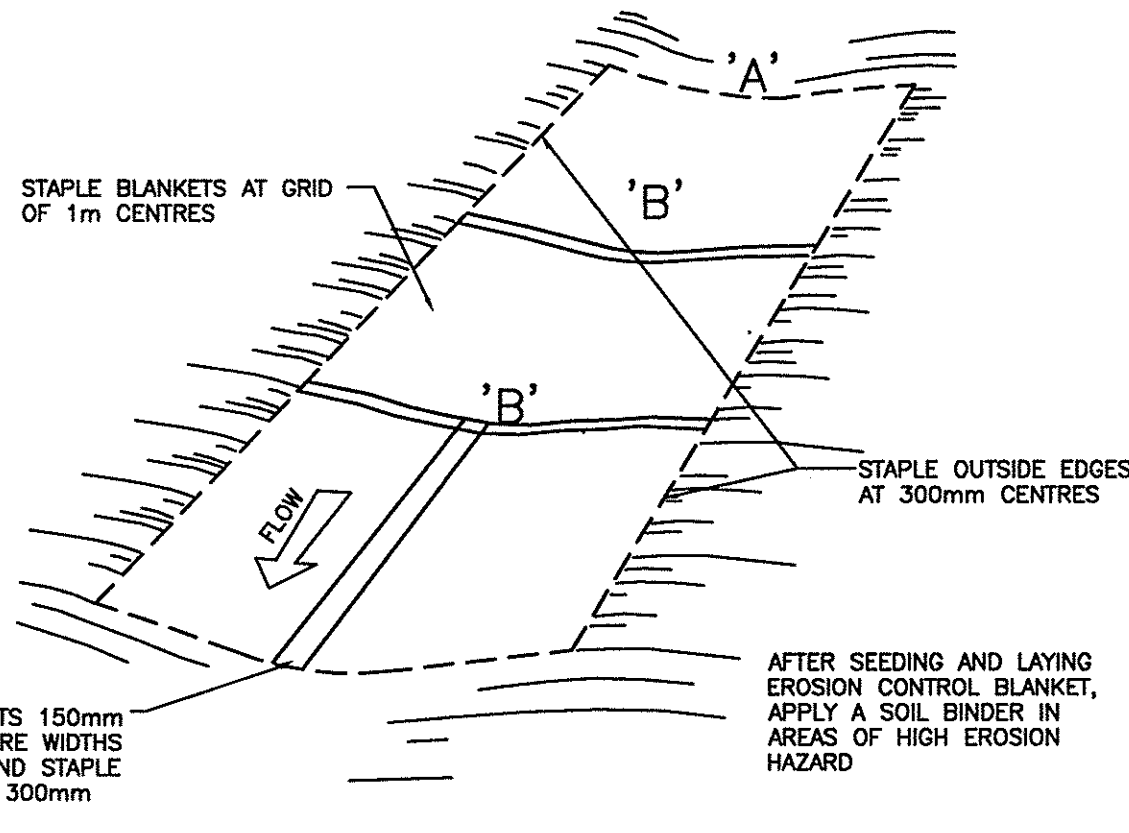
29. ALL SEDIMENT DETENTION SYSTEMS SHALL BE KEPT IN GOOD WORKING CONDITION. IN PARTICULAR ATTENTION SHALL BE GIVEN TO:-
- a) RECENT WORKS TO ENSURE THAT THEY HAVE NOT RESULTED IN DIVERSION OF SEDIMENT LADEN WATER AWAY FROM THEM.
- b) DEGRADEABLE PRODUCTS TO ENSURE THAT THEY ARE REPLACED AS REQUIRED
- c) SEDIMENT REMOVAL TO ENSURE THE DESIGN CAPACITY OR LESS REMAINS IN THE SETTLING ZONE.

30. ADDITIONAL EROSION AND/OR SEDIMENT CONTROL WORKS SHALL BE CONSTRUCTED AS MIGHT BECOME NECESSARY TO ENSURE THE DESIRED PROTECTION IS GIVEN TO DOWNSLOPE LANDS AND WATERWAYS (ie MAKE ONGOING CHANGES TO THIS PLAN WHERE IT PROVES INADEQUATE IN PRACTICE OR IS SUBJECT TO CHANGES IN CONDITIONS AT THE WORKS SITE OR ELSEWHERE IN THE CATCHMENT).

31. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED IN A FUNCTIONING CONDITION UNTIL ALL EARTHWORKS ACTIVITIES ARE COMPLETED AND THE SITE STABILISED.

32. WATERS IN SEDIMENT RETENTION BASINS THAT OCCUPY MORE THAN ¼ OF THE DESIGN CAPACITY DURING THAT STAGE OF THE WORKS UP UNTIL COMMISSIONING OF THE BASIN(s) SHALL BE:-
- a) TREATED WITH A FLOCCULATING AGENT (APPENDIX E MANAGING URBAN STORMWATER SOILS & CONSTRUCTION 3rd ED.)
- b) DISCHARGED WITHIN 5 days FROM THE CONCLUSION OF ANY STORM EVENT LARGE ENOUGH TO FILL THE BASIN TO THAT LEVEL

33. LITTER, DEBRIS AND COARSE SEDIMENT SHALL BE REMOVED FROM THE GROSS POLLUTANT TRAPS AND TRASH RACKS AS REQUIRED.



JUTE MATTING DETAIL

FOR DA APPROVAL

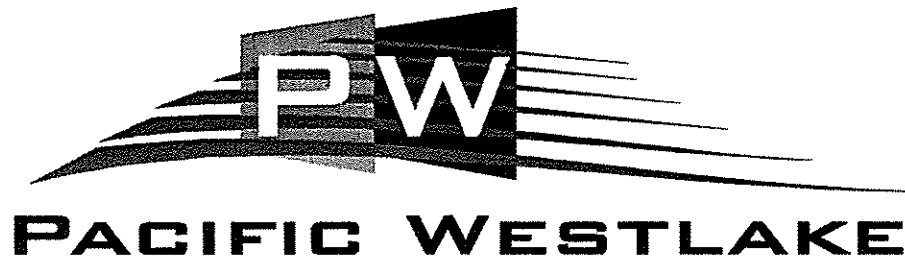
THIS DRAWING AND THE CONCEPTS CONTAINED THEREIN ARE THE PROPERTY OF PACIFIC WESTLAKE PTY. LTD. NO UNAUTHORISED COPYING IS PERMITTED. NO STRUCTURE IS TO BE CONSTRUCTED BASED ON THIS DRAWING, OR PART OF THIS DRAWING, WITHOUT THE WRITTEN PERMISSION OF PACIFIC WESTLAKE PTY. LTD.

ALL DIMENSIONS SHALL BE VERIFIED ON SITE. WHERE DIMENSIONS DIFFER FROM THOSE SHOWN ON ARCHITECTURAL DETAILS, DIRECTION SHALL BE OBTAINED FROM PACIFIC WESTLAKE P/L.

DO NOT SCALE - NO RESPONSIBILITY WILL BE TAKEN BY PACIFIC WESTLAKE P/L FOR ANY DISCREPANCIES CAUSED BY SCALING THESE DRAWINGS.

Rev.	Amendments
B	FOR 90% COMPLETE DA SUBMISSION

Approved	Date
S.P.	14.9.12



Structural and Civil Engineers

PO Box 1573 NOWRA 2541
Ph 44235533 Fax 44229799
Email office@pacificwestlake.com

SOIL & WATER MANAGEMENT DETAILS

ALTERATION AND ADDITION TO ULLADULLA CIVIC CENTRE
SHOALHAVEN CITY COUNCIL
PRINCES HIGHWAY, ULLADULLA

Design:	S. Punnett
Drawn:	S. Punnett
Checked:	
Date:	2/4/2012
Drawing No.	12196-C04
Rev	B