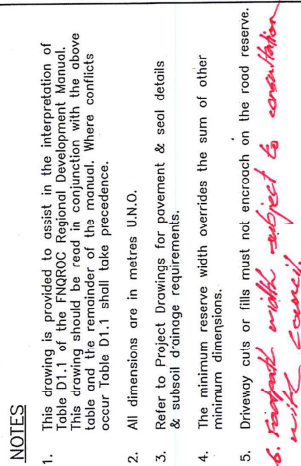
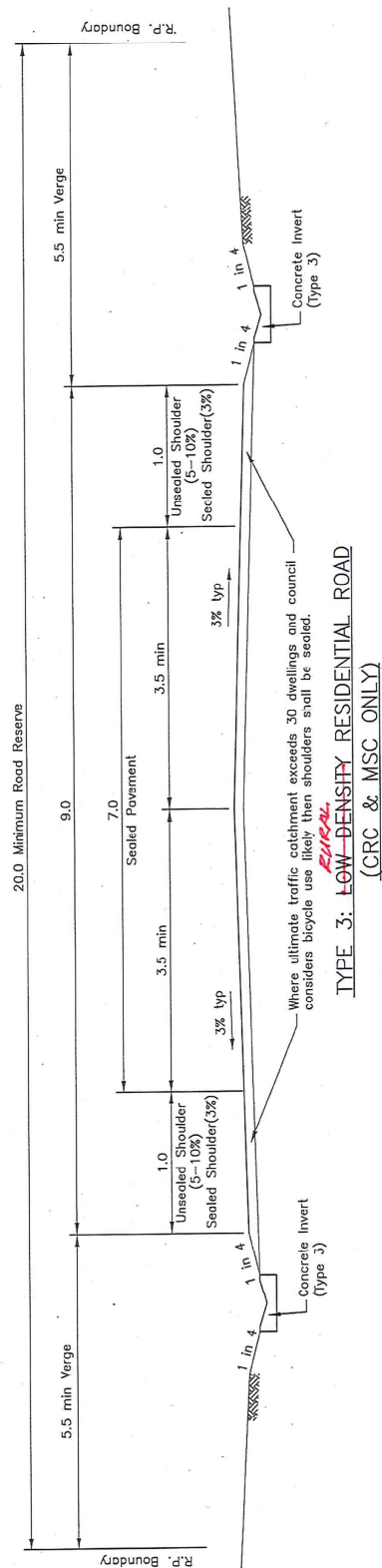


ROAD RESERVE BOUNDARY TREATMENT



TYPE 2: ACCESS STREET (26 TO 90 DWELLINGS)
(CRC, TRC, MSC & DSC ONLY)

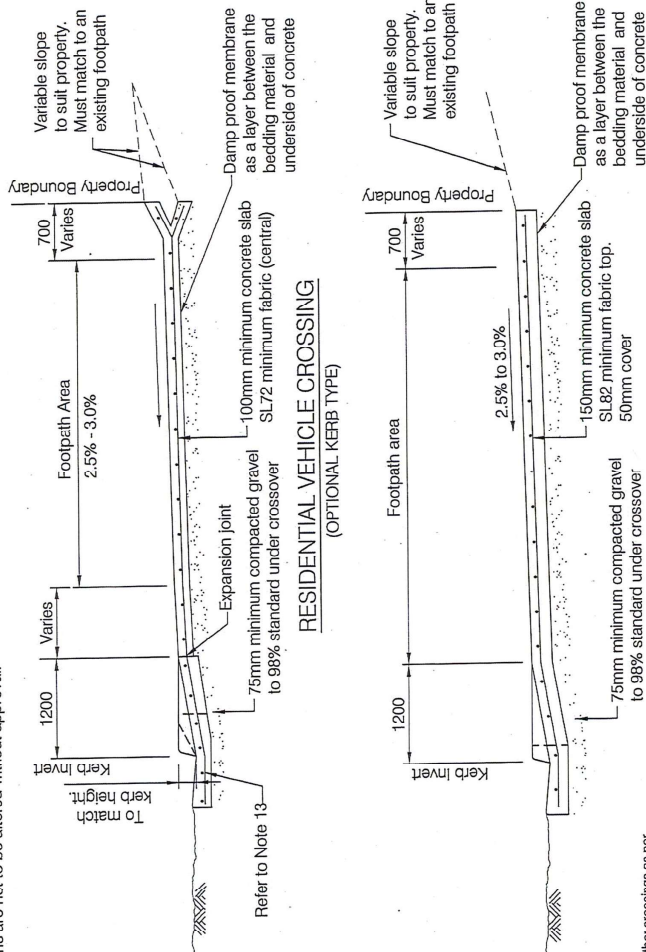
[illegible]

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TYPICAL ROAD CROSS SECTIONS TYPE 1, TYPE 2 & TYPE 3

All new concrete footpaths, where required in old developments shall be reconstructed to match neatly to existing driveway slab.
(1:14 maximum grade. Plain concrete only)
All existing footpaths are not to be altered without approval



1. All joints to existing kerbs shall be sawcut prior to breaking out concrete for removal. Entire section of kerb to be removed.
2. Concrete to be N25 min residential, N300 min. commercial/industrial
3. In accordance with ASI379 and ASI360
4. All concrete to be broom finished.
5. Where a concrete footpath abuts a crossing an expansion joint shall be installed and the footpath levels must not be changed.
6. Expansion joints to be 10mm thick, closed cell cross linked polyethylene foam (95-150kg/m³), 12mm round galvanised dowels @ 600 Ctrs
7. Depths of concrete and reinforcing steel shown are minimum requirements for good foundations and average traffic loadings. Where this does not apply, depths of concrete and reinforcing steel shall be increased to suit specific conditions.
8. Where an existing footpath is present it is to be sawcut and an expansion joint provided, 12mm round galvanised dowels @ 600 Ctrs.
9. Subgrade to be compacted to 95% standard.
10. All dimensions are in millimetres.

[illegible]

(If required)

DISCLAIMER

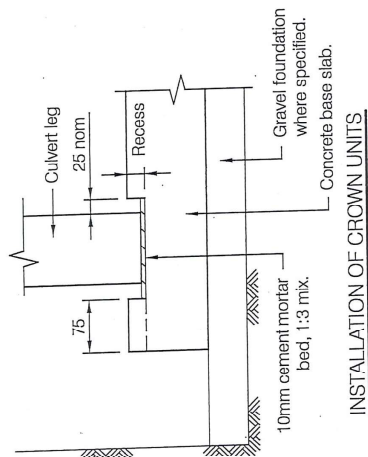
The authors and sponsoring organizations shall have no liability or responsibility to the user or any other person or entity with respect to any liability, loss or damage caused or alleged to be caused, directly or indirectly, by the adoption and use of these Standard Drawings including, but not limited to, any interruption of service, loss of business or other damages, or consequential damages resulting from the use of these Standard Drawings. Persons must not rely on these Standard Drawings as the equivalent of, or a substitute or project-specific design and assessment by an appropriately qualified professional.

			DATE
D	VARIOUS MINOR AMENDMENTS		23/10/17
C	VARIOUS MINOR AMENDMENTS		26/11/14
B	NOTE 10 ADDED		13/01/06
A	ORIGINAL ISSUE		12/03/04

ACCESS CROSSOVERS

Standard
Drawing
S1015

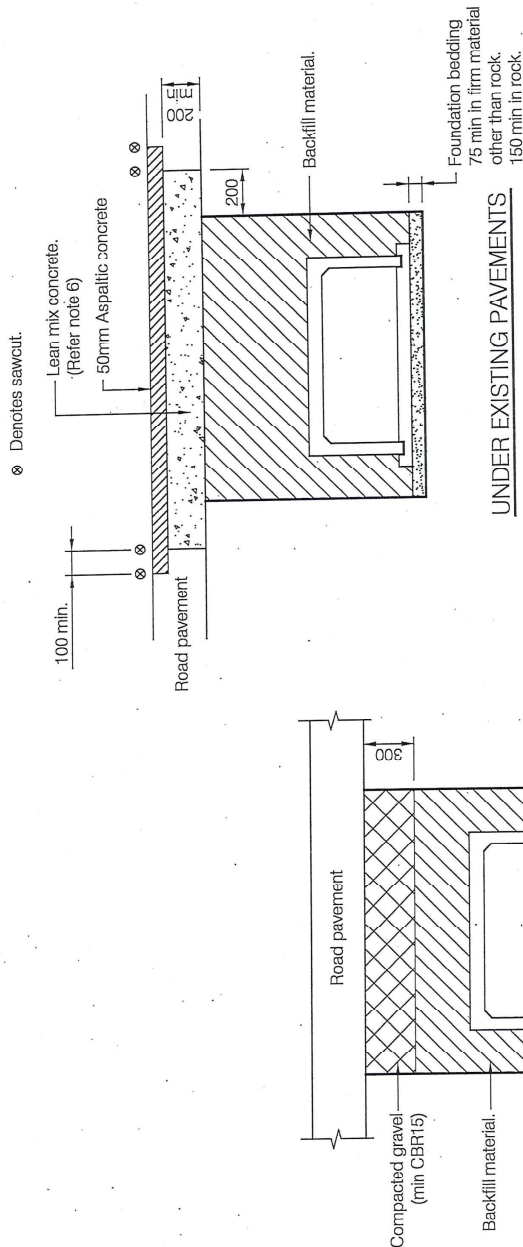
A	B	C	D	E
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INSTALLATION OF CROWN UNITS

TRENCH INSTALLATION

EMBANKMENT INSTALLATION



UNDER EXISTING PAVEMENTS

UNDER NEW PAVEMENTS

Foundation bedding 75 min
in firm material other than rock.
150 min in rock.

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EXCAVATION, BEDDING AND BACKFILLING OF PRECAST BOX CULVERTS

Standard
Drawing
S1045

3	A
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4

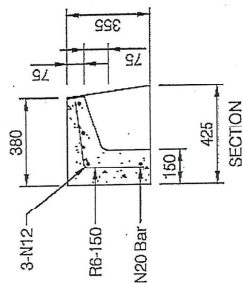
NOTES:

1. Refer project drawings for details of culvert foundations / working platforms in poor ground conditions.
2. Refer Main Roads Standard Drawing 1876 for installation of precast culverts & RC *1250 x 900 cast in situ*
3. *to be as per manufacturer recommendation*
4. All joints to have manufacturer recommended joint seals or alternatively shall be tapered with 75mm wide "Tense" (600) tape.
5. Backfill compaction
 - Compacted foundation / backfill materials - 95% standard compaction.
 - Compacted gravel (300mm layer) under road pavement - 98% standard compaction.
 - Compacted fill - at footpaths / private property - 95% standard compaction.
6. Max. densities determined by standard compaction tests to AS 1289 L5.1.
7. On residential streets, and rural roads the pavement may be reinstated to the satisfaction of council in lieu of lean mix concrete.
8. In aggressive environments or where any part of the culvert in below RL 1,800, culvert units and base slabs reinforcing shall be required to meet the exposure classification of AS 3600.
9. All dimensions in millimetres.

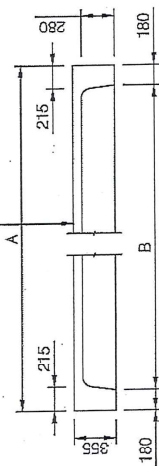
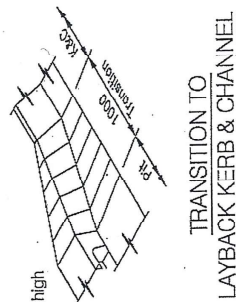


TABLE OF DIMENSIONS

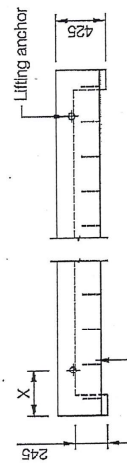
Lintel size	A	B	X	Mass (kg)
Small (S)	2400	2040	400	445
Medium (M)	3600	3240	690	550
Large (L)	4800	4440	1000	725



Top of lintel to have imprinted 5mm deep x 40mm high text "DUMP NO WASTE - PROTECT THE REEF" facing footpath.



ELEVATION



PLAN

PRECAST LINTEL DETAIL

NOTES:-

- Concrete to precast lintel to be grade N32. All other concrete to be grade N25 in accordance with AS 1379 and AS 3600. Minimum cover to be 40 mm.
- In areas where any part of the pit is below 1.800m A.H.D. all concrete shall be grade N32 in accordance with AS 1375 and AS 3600 and cover increased to 65mm. Thickening of concrete section may be required.
- Lifting anchors to be "Swiffitt" or equivalent, 1.3 tonne galvanised and installed to manufacturers specification.
- For pit depths less than 1.50m, wall and base reinforcing may be omitted.
- For pit depths greater than 2.0m, wall and base reinforcing to be increased to SLB1 mesh. Pits greater than 2.5m depth shall be engineer designed and specifically detailed.
- Pipes shall enter pit through a single wall face. Pipes are not permitted to enter through the corner of the pit.
- 2m long 1000Z subsoil drain to be provided to the sand bedding of all U/S pipes.
- All dimensions in millimetres.
- Lintel top to have slip resistant surface.
- Provide a minimum 60mm fall in the tray for self cleansing.

11. Pre-cast units in accordance with these requirements are available.

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REVISIONS		
B	MINOR AMENDMENTS	23/10/17
A	ORIGINAL ISSUE	12/03/04



GRATED KERB INLET PIT
PIPE DIA ≤ 600mm

Standard
Drawing

S1050

A B

SECTION $\frac{A}{1}$

SECTION

NOTES

1. This drawing shall be read in conjunction with Standard Drawing No S1050.
2. Concrete to precast lintel to be grade N32, all other concrete to be grade N25, in accordance with AS 1379 and AS 3600. Minimum cover to be 40mm.
3. In areas where any part of the pit is below RL 1,800, all concrete shall be grade N32 and wall and base thickness increased to 200 minimum. Minimum cover to be 65mm.
4. For pit depths less than 1.50m wall and base reinforcing may be omitted.
5. For pit depths greater than 2.0m wall and base reinforcing to be increased to SLB1.
6. For pits with any internal dimension (width or length) greater than 1200mm, roof reinforcing shall be increased to N16 bars at 100 c/cs eachway.
7. All pits with an internal dimension (width or length) greater than 1800mm or depth greater than 2500mm shall be engineer designed and specifically detailed.
8. Pipes shall not enter pits through a single wall face. Pipes are not permitted to enter through a 2m long 1002 subsoil drain to be provided to the sand bedding of all U/S pipes.
9. All dimensions in millimetres.
10. Lintel top to have slip resistant surface.
11. Provide a minimum 50mm fall in the tray for self cleansing.

2. Provide a minimum 50mm fall in the tray for self cleansing.

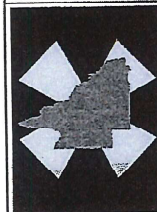
12. Provide a minimum 50mm fall in the tray for self-cleansing;
13. Pre-cast units in accordance with these requirements are acceptable.

PLAN

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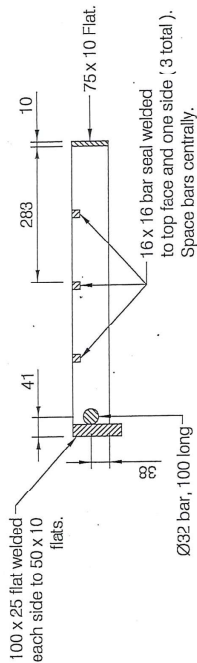
REVISIONS		DATE
A	ORIGINAL ISSUE	12/03/04
B	MINOR AMENDMENTS	13/01/06
C	NOTE 9 REMOVED AND GRATE AMENDED	01/02/07
D	MINOR AMENDMENTS	23/10/17



GRATED KERB INLET PIT
PIPE DIA > 600mm

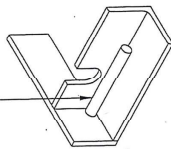
Standard
Drawing
S1055

A	B	C	D	E
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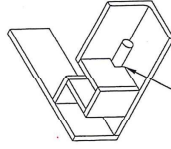


SECTION B-B

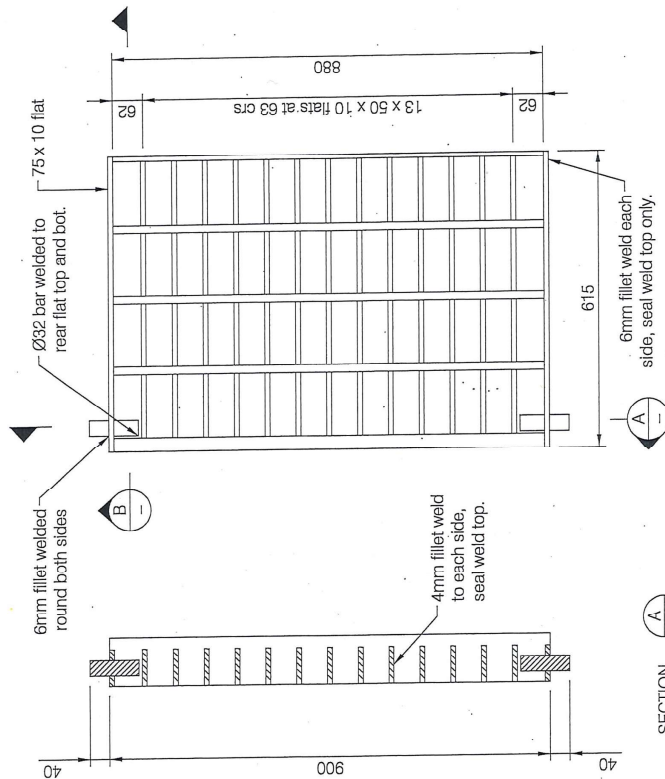
Ø20 bar, 150 lg fully welded to angle.



HINGE DETAIL (SHIELD OMITTED)



HINGE DETAIL (WITH SHIELD)



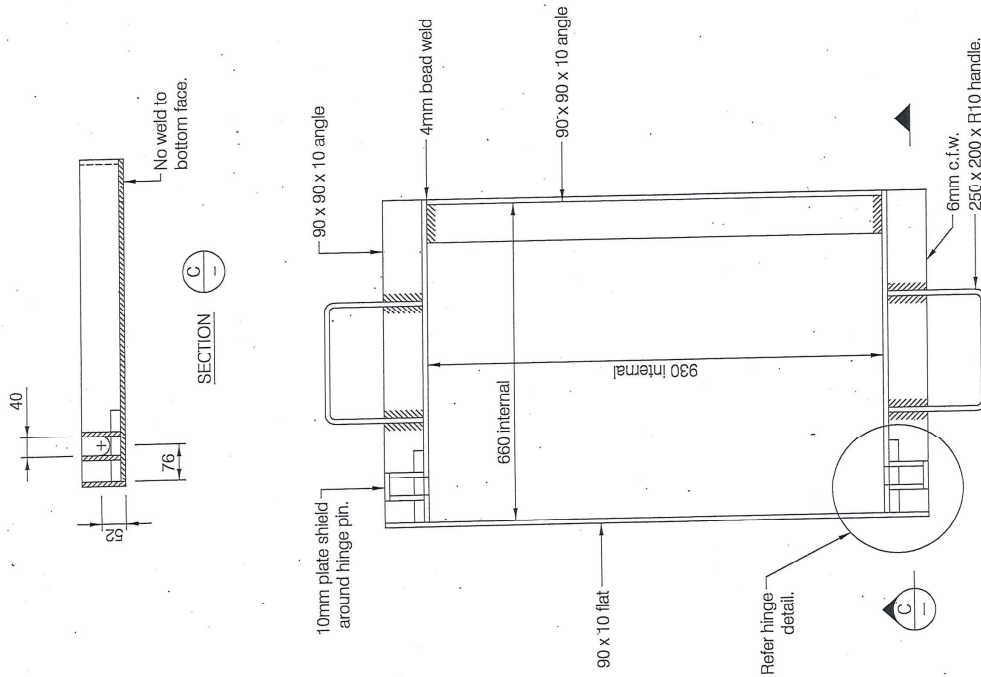
SECTION A-A

GRATE PLAN (Mass - 63kg approx)

NOTES

1. All welds to conform with AS 1554 and to be 6 c.f.w. unless noted otherwise.
2. All steelwork shall be hot dipped galvanised after fabrication to conform with AS 1650.
3. All steel flats, bars and angles to be grade 250 as per AS 3679.
4. All dimensions in millimetres.
5. Alternate grates to that shown may be considered with Council approval.
6. *Re-use units in accordance with these requirements are acceptable.*

FRAME PLAN (Mass - 41kg approx.)



SECTION C-C

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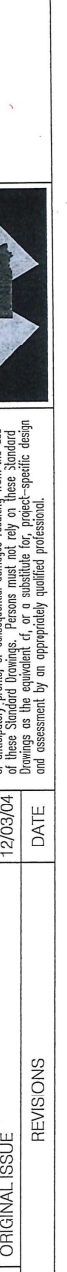
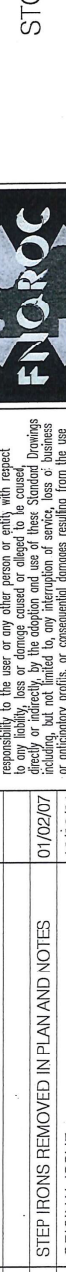
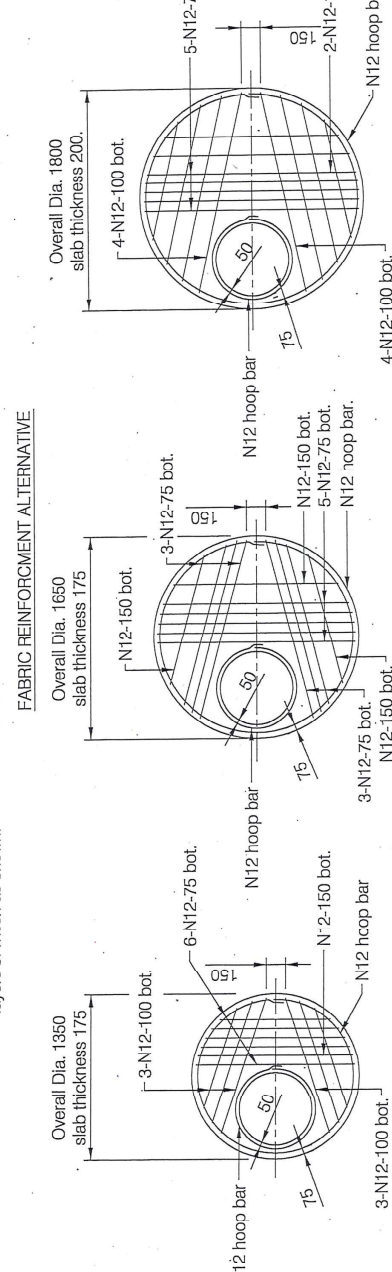
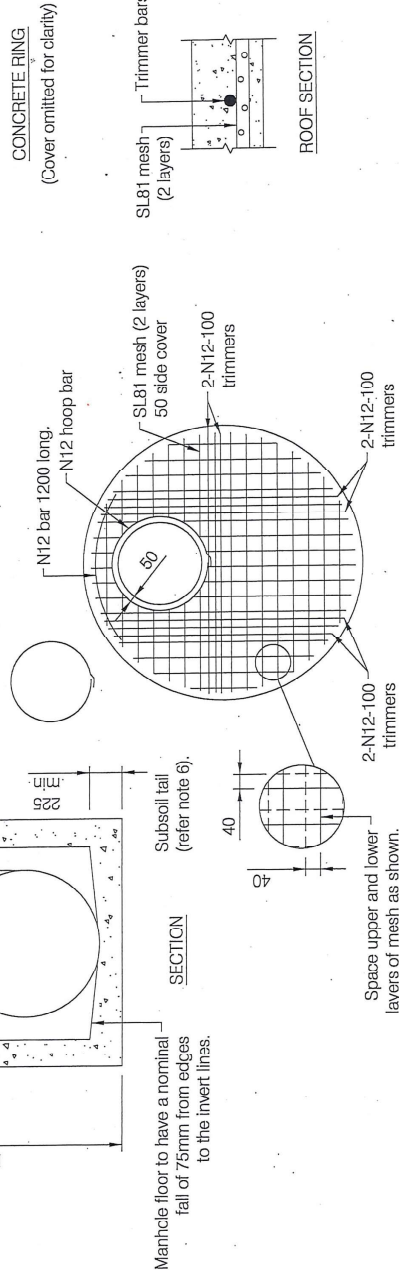
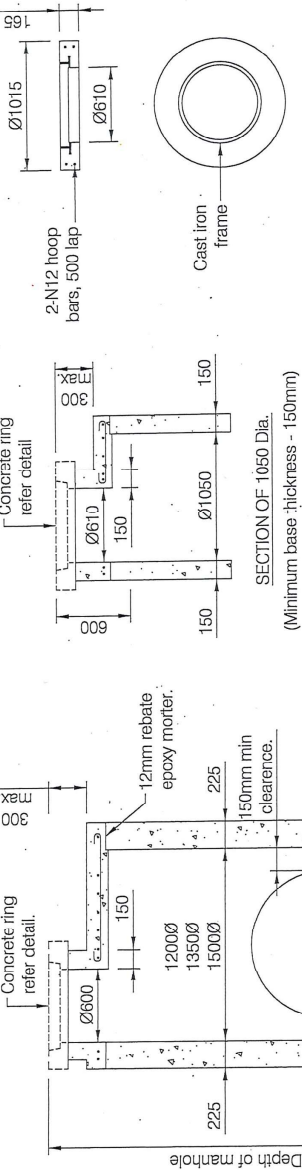
KERB INLET GRATE AND FRAME

Standard Drawing S1060

REVISIONS

DATE	REVISIONS
01/02/07	NOTE 5 ADDED AND BARS ADDED TO GRATE
12/03/04	ORIGINAL ISSUE

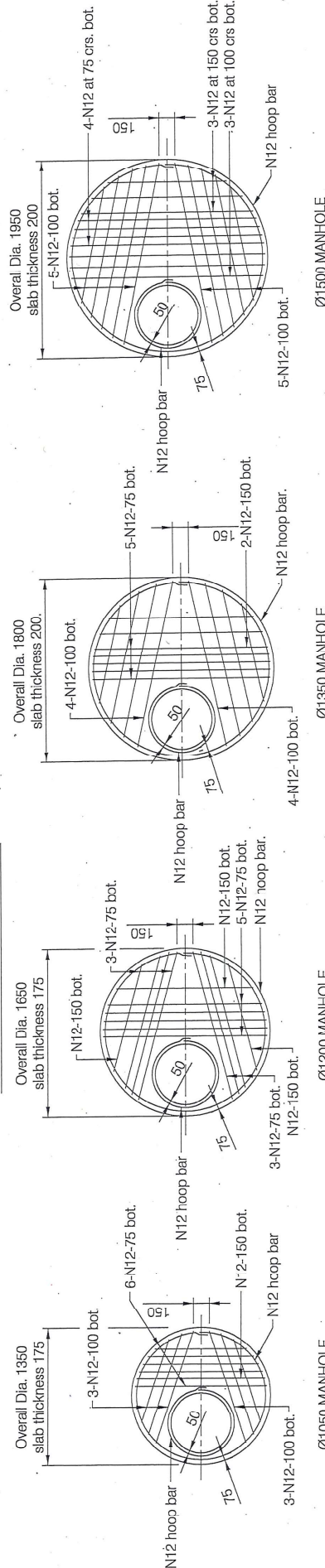
DATE



- NOTES**
1. All concrete shall be grade N25, in accordance with AS 1379 and AS 3600. Minimum cover to be 40mm.
 2. In areas where any part of the pit is below RL 1.800, all concrete shall be grade N32. Minimum cover to be 65mm. Thickening of concrete section may be required.
 3. Cover shall be cast iron (Refer specifications for class).
 4. Manholes greater than 1.5m diameter shall be engineer designed and detailed.
 5. 2m long 100Ø subsoil drain to be provided to the sand bedding of all U/S pipes.
 6. All dimensions in millimeters.
 7. *Re-cast with in accordance with the requirements on asphalt.*

FABRIC REINFORCED SLAB

NOM DIA	ROOF THICKNESS
1050	175
1200	175
1350	200
1500	250



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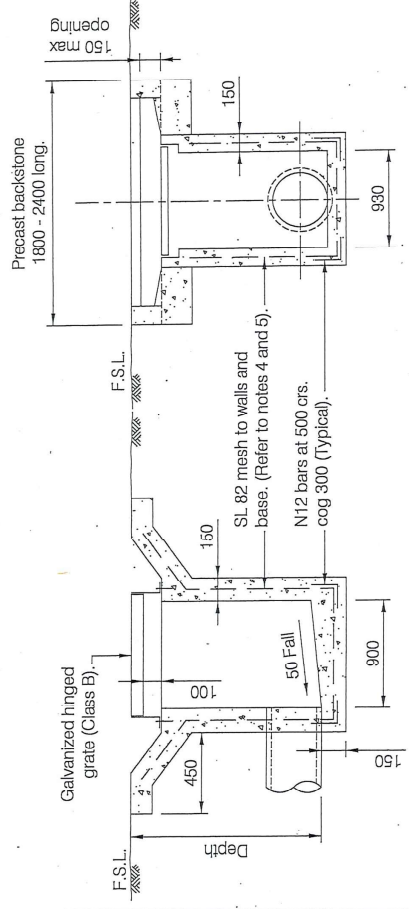
REVISIONS	DATE
B STEP IRONS REMOVED IN PLAN AND NOTES	01/02/07
A ORIGINAL ISSUE	12/03/04



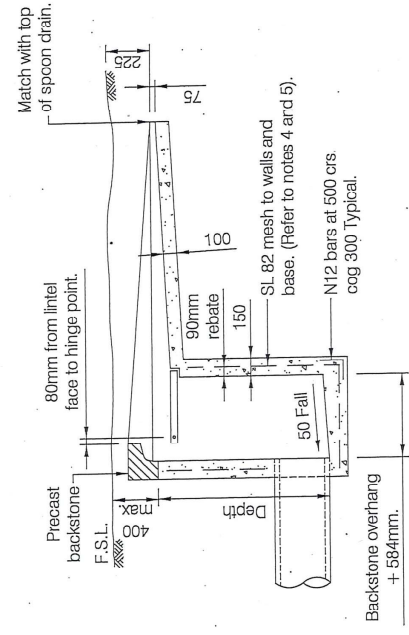
STORMWATER MANHOLES Ø1050 TO Ø1500

Standard
Drawing
S1065

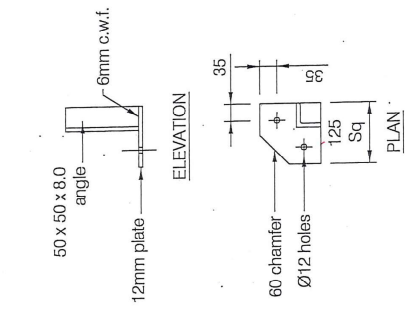
A	B	C
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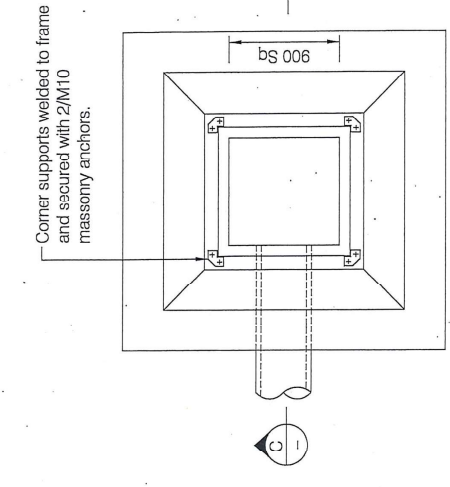
SECTION C



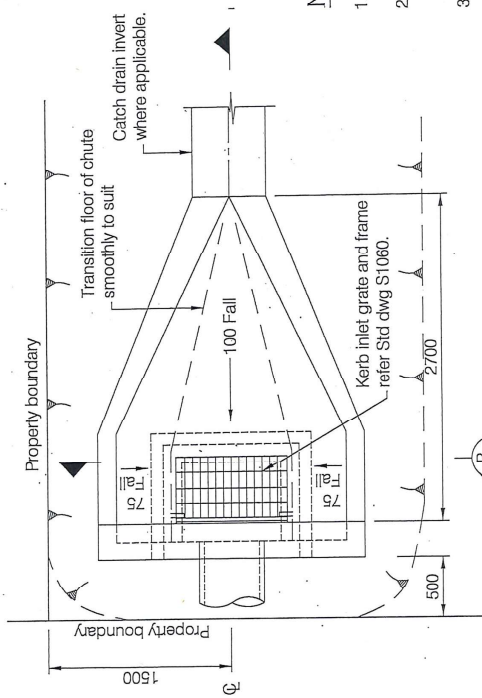
SECTION B



CORNER SUPPORTS



PLAN
(Grate omitted for clarity)
FIELD INLET
(TYPE B)



PLAN
FIELD INLET
(TYPE A)

NOTES

1. All concrete to be grade N25 in accordance with AS 1379 and AS 3600. Minimum cover to be 40mm.
2. In areas where any part of the pit is below RL 1 800 all concrete shall be grade N32 and wall thickness increased to 200 minimum. Minimum cover to be 65mm.
3. All steel work shall be hot dipped galvanised after fabrication to conform with AS 1650.
4. For pit depths less than 1.50m wall and base reinforcing may be omitted.
5. For pit depths greater than 2.0m wall and base reinforcing to be increased to SL 81 mesh. Pits greater than 2.5m depth shall be engineer designed and specifically detailed.
6. All dimensions are in millimetres.

7. Re-visit note in accordance with their requirements are acceptable subject to the approval of suitability by the certifying BSA signee.

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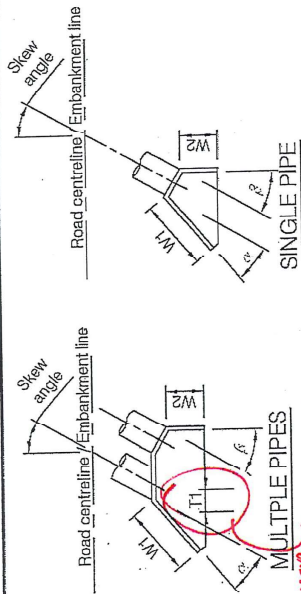
FIELD INLET PITS

Standard Drawing
S1070

REVISIONS

REVISIONS	DATE
B NOTE 6 DELETED AND SECTION B REVISED	01/02/07
A ORIGINAL ISSUE	12/03/04

A	B	C
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Skew Angle	Wingwall angle	
	α	β
0 - 10°	30	30
11 - 20	25	30
21 - 30	20	30
31 - 45	15	30

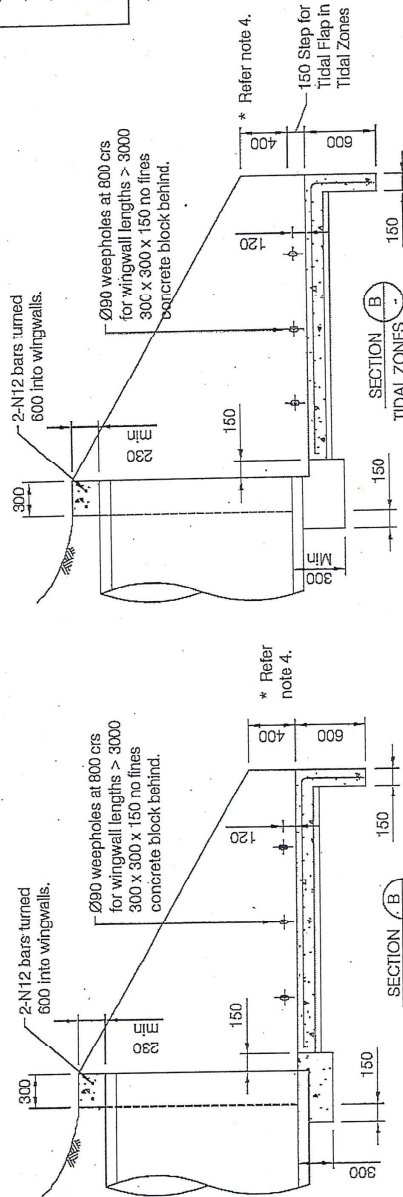
W1 (Angle α) is the wingwall nearer to road centreline / embankment line

TABLE OF DIMENSIONS & REINFORCEMENT

Dia	T1	T2	A	B	M1	M2	M3
375	200	150	450	300	SL82	SL82	-
450	200	150	450	300	SL82	SL82	-
525	200	150	450	300	SL82	SL82	-
675	200	150	450	300	SL82	SL82	-
750	200	200	550	200	RL818	SL82	-
825	200	200	550	200	RL818	SL82	-
900	200	200	550	200	RL818	SL82	-
1050	200	200	550	200	RL818	SL82	-
1200	200	200	550	200	RL818	SL82	-
1350	250	250	600	200	RL1018	SL82	-
1500	250	250	600	#	RL1018	SL82	-
1650	250	250	600	#	RL1018	SL82	SL82
1800	300	300	650	#	RL1018	SL82	SL82
1950	300	300	650	#	RL1018	SL82	SL82
2100	300	300	650	#	RL1018	SL82	SL82

Refer window wall bar spacing detail shown above

1. Concrete shall be grade N32 in accordance with AS 1379 and AS 3600. Minimum cover to be 50mm.
2. In areas where the invert is below RL -1.800m all concrete shall be grade N40. Wall and apron thickness (T1 & T2) to be increased by 30mm. Minimum cover to be 63mm.
3. For wingwall lengths (W1 & W2) and skew angle refer to project drawings.
4. Stone pitching to be provided to the ends of wingwalls, extending to top of batter, wherever batter slope exceeds 1 in 4.
5. Where height of headwall above the pipe is greater than 300mm, the headwall shall be designed and detailed on the project drawings.
6. Headwall reinforcing to be similar to the highest section of the wingwall
7. All dimensions in millimetres.



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4. Pre-Cast units in accordance with any acceptable, subject to the approval of the certifying RBEE examiner

CONCRETE PIPE HEADWALL WINGWALLS AND APRON

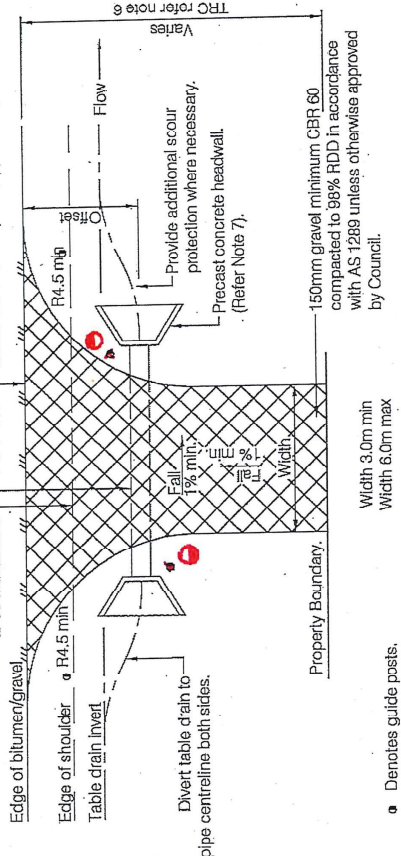
A	B	C	.
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REVISIONS		DATE
E	TIDAL FLAP STEP ADDED	OCT 11
A	ORIGINAL ISSUE	12/03/04

R.C. pipe / RCBC under access where required, refer project drawings for size, length and grade. (Refer Note 2)

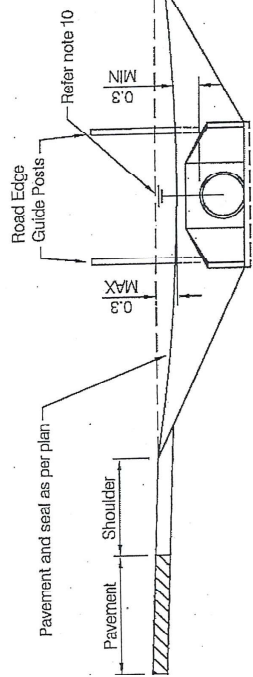
Unless otherwise approved, access onto sealed roads shall have a 30mm A.C. or 2 coat bitumen sea extending from the road edge to the property boundary (hatched area in plan). For access onto unsealed roads no bitumen seal is necessary unless otherwise required/approved by council.

Existing shoulder level to be maintained.

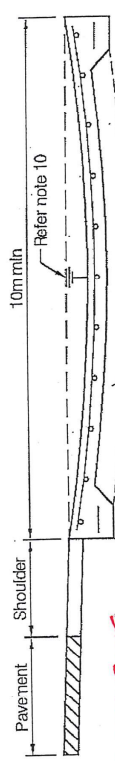


• Denotes guide posts.

PLAN



END ELEVATION



Slab edge thickening min 300 deep x 300 wide to perimeter of slab, reinforcing with 1 layer trench mesh (30BC)

NOTES

1. Minimum length of culvert shall be 4.8m for single access, 7.2m for double access.
2. Minimum pipe size shall be $\phi 375$. Minimum RCBC to be 300mm high.
3. Minimum RC pipe / RCBC gradient shall be 1:100.
4. Where cover to RC pipes is less than 280mm pipe shall have 100mm concrete surround.
5. Drainage from access must not flow over the through road. All stormwater runoff shall be directed to the table drain.
6. Maximum 10 metres from edge of bitumen seal or where grade is steeper than 6% the bitumen seal shall extend from the road edge to the property boundary unless otherwise approved.
7. Precast sloping headwalls shall be used when:
 - a) the through road has a signposted speed of 80km/hr or greater.
 - b) the through road has a signposted speed of 60km/hr and the offset distance from the traffic lane to the culvert is less than 4.5m.
8. Concrete shall be grade N25 in accordance with AS 1379 and AS 3600.
9. All dimensions are in millimetres.
10. Hydraulic capacity of pipe and access to match the capacity of the table drain. This may require the use of multiple pipes.
11. Minimum sight distances at accesses should comply with 'Sight Distance at Property Entrances' Austroads Guide to Road Design Part 4A: Unsignalised and Signalised Intersections.
12. In instances where the detail/s shown on this drawing cannot be achieved due to existing constraints, Council shall be contacted to achieve an acceptable alternative.

TYPICAL ALTERNATIVE FLOODWAY TYPE ACCESS

(Where approved by Council)



DISCLAIMER

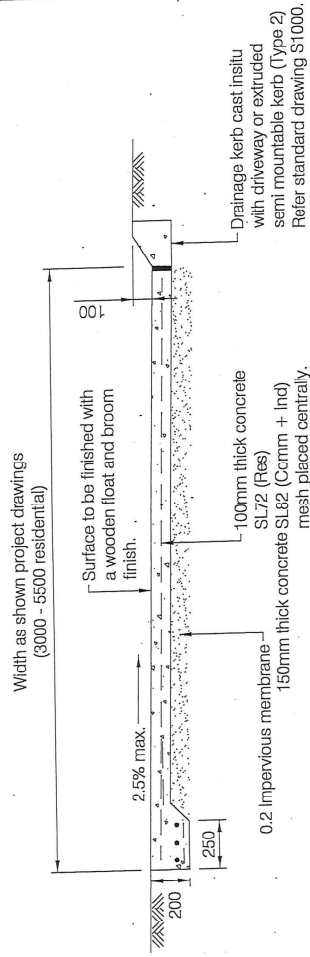
The authors and sponsoring organisations shall have no liability or responsibility to the user or any other person or entity with respect to any liability, loss or damage caused or alleged to be caused directly or indirectly by the use of the drawings and specifications. The drawings and specifications are provided for the use of the user and are not to be used for any other purpose. The drawings and specifications are not to be used for any other purpose. The drawings and specifications are not to be used for any other purpose.

REVISIONS		DATE
E	MINOR AMENDMENTS	28/11/14
D	COMBINED PLAN DETAIL AND ADDED SECTIONS	28/11/12
C	VARIOUS MINOR AMENDMENTS	13/01/06
B	NOTES AMENDED	18/01/05
A	ORIGINAL ISSUE	12/03/04

RURAL ALLOTMENT ACCESSES

Standard Drawing
S1105

A B C D E



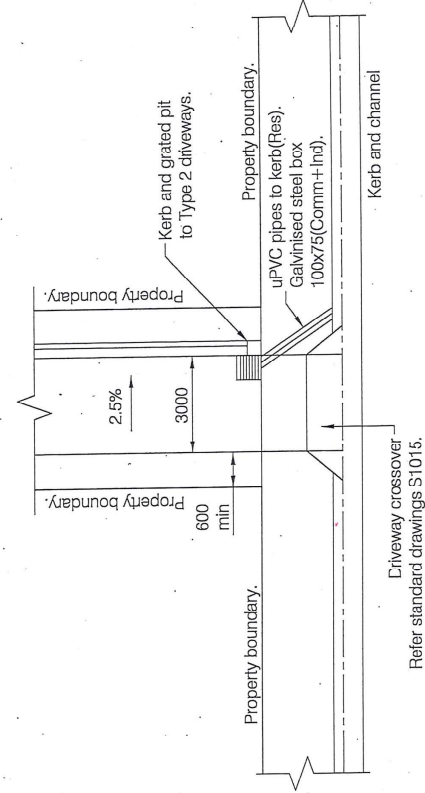
FB TM 3BAA (Res)

F11 TM 3BAA (Comm + Inc)

CONCRETE DRIVEWAY - TYPE 2

(With drainage)

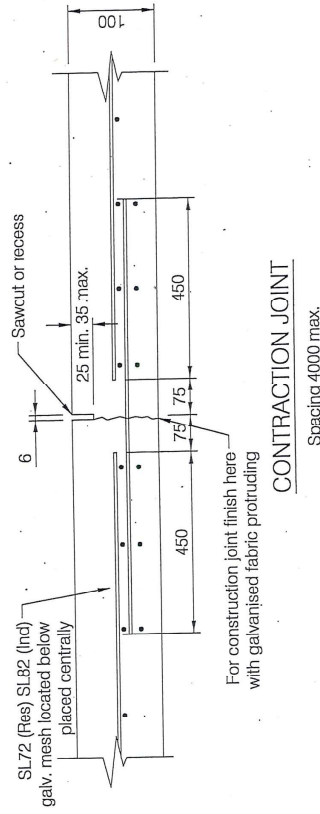
Closed cell cross linked polyethylene foam with 12mm galvanised dowels @ 600mm Ctrs



TYPICAL DRIVEWAY LAYOUT

NOTES

1. For driveway alignment, longitudinal grade and associated drainage details refer project drawings.
2. Concrete is N25 in accordance with AS 1379 and AS 3600.
3. Construction joints shall be provided at 4.0m max. Ctrs with expansion joints or approved equivalent @ 16.0m max. Ctrs.
4. All dimensions to be in millimetres.
5. 'Residential' refers to single dwelling/duplex.
6. For commercial or industrial driveways 150mm thick N32 concrete and SL82 mesh.
7. Access to Gross Pollutant Traps (GPT) to be min 3.5m wide to commercial/ industrial driveway standard.
8. All gates within driveway are to be class D for vehicle traffic.



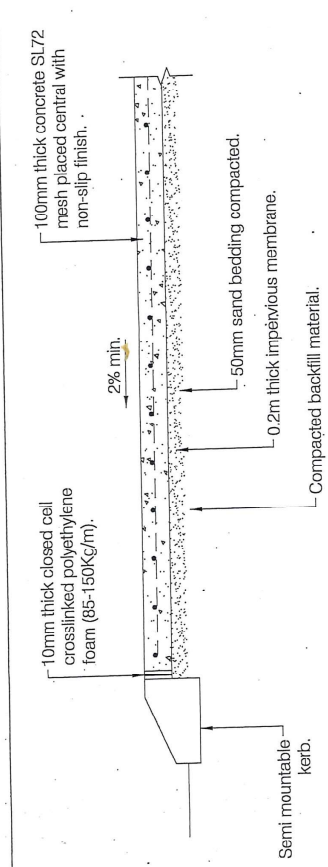
CONTRACTION JOINT

Spacing 4000 max.

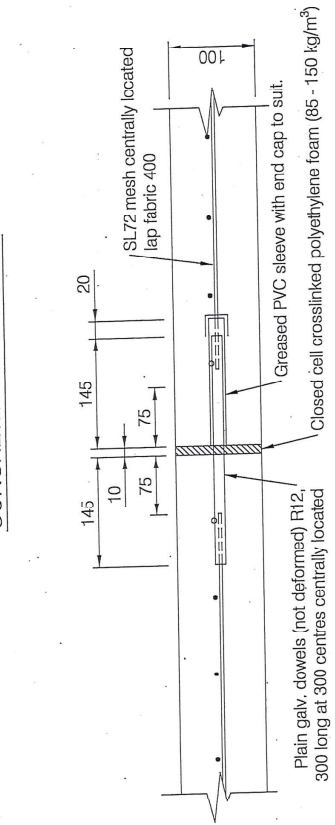
REVISIONS		DATE	
E	VARIOUS AMENDMENTS	23/10/17	
D	MINOR AMENDMENTS	26/11/14	
C	TYPES 1 AND 2 REVISED, NOTE 3 AMENDED	01/02/06	
B	NOTE 5 ADDED	13/01/06	
A	ORIGINAL ISSUE	12/03/04	



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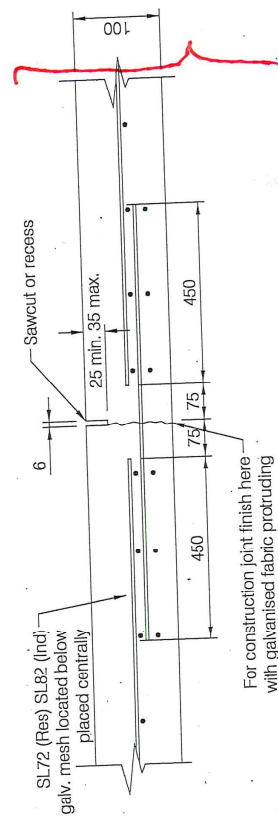


CONCRETE PAVED ISLAND



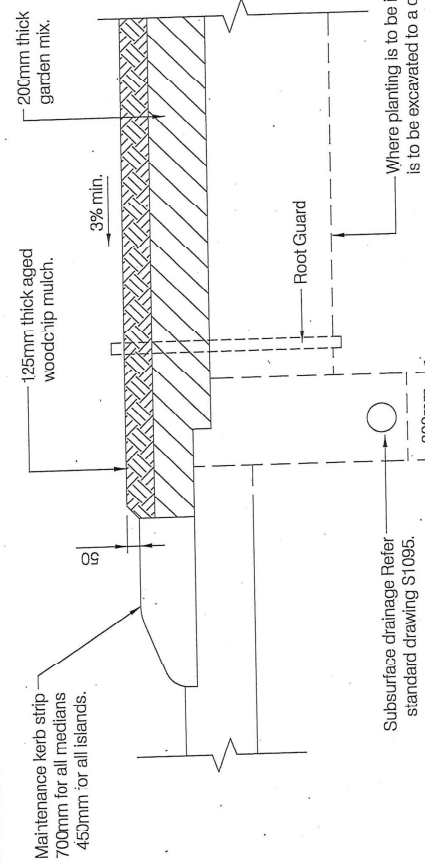
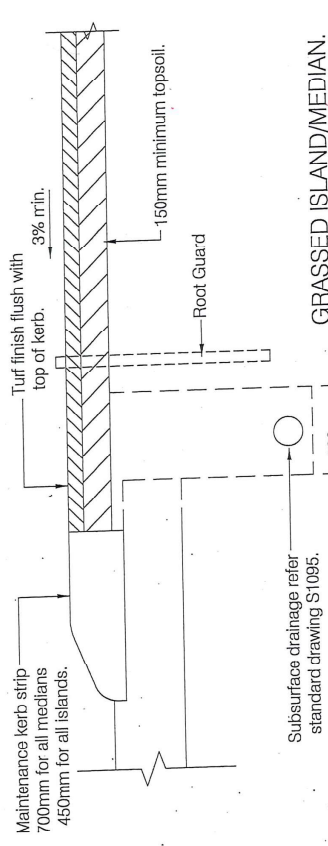
EXPANSION JOINT

Spacing 16m max.



CONTRACTION JOINT

Spacing 4m max (Refer note 4).



NOTES

1. For island / median setout and planting schedule refer project drawings.
2. Concrete N25 in accordance with AS1379 and AS3600.
3. All concrete paved islands shall have expansion joints constructed at 16m max. ctrs.
4. All concrete paved islands shall have contraction joints located so the longest side to shortest side ratio does not exceed 1.6, maximum spacing 4m.
5. All grassed and landscaped islands shall have a subsurface drainage line connected to the underground drainage network or open drainage channel. Refer project drawings for location of subsurface drainage lines and flush points.
6. All grassed and landscaped islands shall have a water service conduit to accommodate irrigation. Refer project drawings for irrigation design.
7. Root barriers to be installed to a minimum of 1000mm beyond the estimated drip line of specified trees at maturity or to full length of median. Barriers to islands must be installed to entire perimeter of kerb.
8. All dimensions are in millimetres.

TRAFFIC ISLANDS OR MEDIANS OF LESS THAN 2M WIDTH TO BE HARD SURFACED IN CONCRETE WITH A PATTERNED OR BROOMED FINISH INCORPORATING A COLOURED PIGMENT IN ACCORDANCE WITH COUNCIL'S REQUIREMENTS. THIS COLOUR SHALL BE TERRACOTTA UNLESS OTHERWISE APPROVED BY COUNCIL

10. saw cut detail to be as per council requirement.

MINOR AMENDMENTS		REVISIONS	
E	23/10/17		
D	26/11/14		
C	31/10/08		
B	13/01/06		
A	12/03/04		

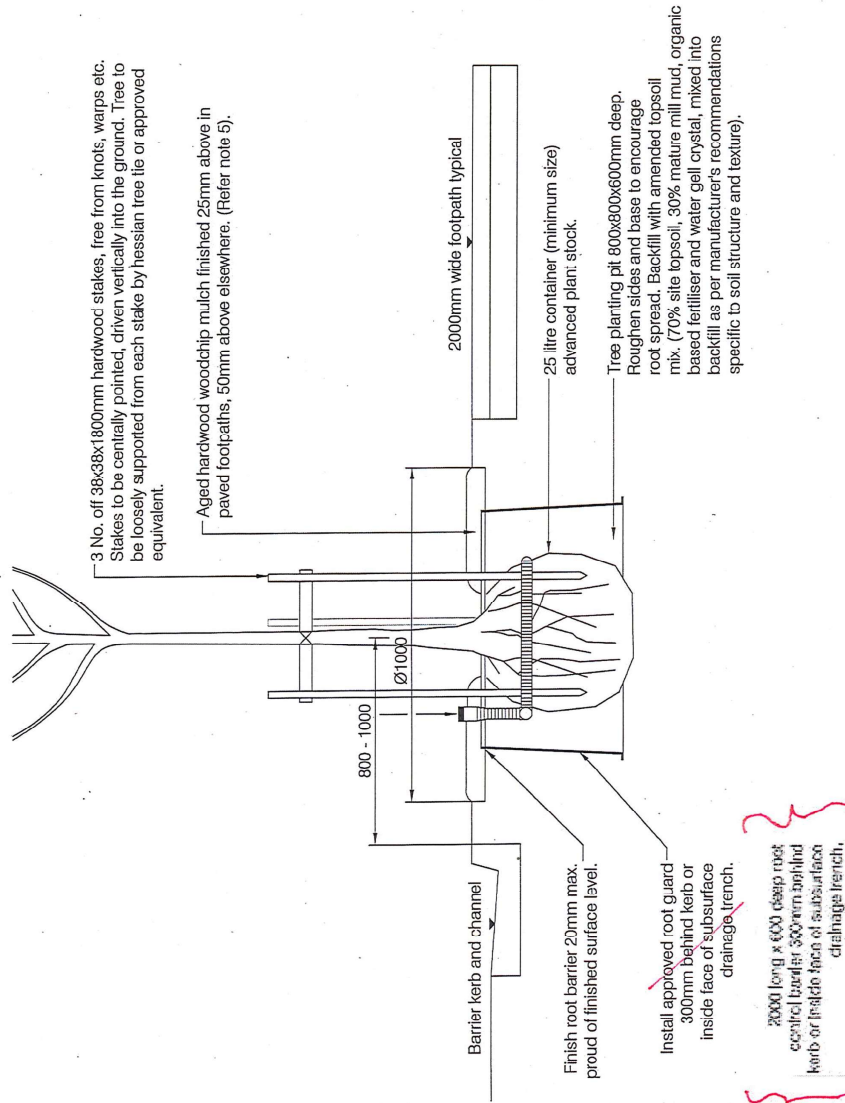
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TRAFFIC ISLANDS / MEDIANS

Standard Drawing
S4110

A	B	C	D	E
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NOTES

1. For location and species of trees refer project drawings.
2. Prior to planting all weeds shall be killed by spraying a suitable glyphosate based herbicide. Sprayed area shall remain undisturbed for two weeks.
3. Excavated planting hole shall allow for a minimum 100mm clearance around the rootball. Base of hole to be ripped to 150mm depth to promote drainage.
4. Top of rootball to be finished flush with existing ground level.
5. Mulch to be 75mm thick in paved footpaths. 125mm thickness elsewhere.
6. Refer standard specification for maintenance and watering requirements.
7. All dimensions are in millimetres.
8. All trees must comply with Australia Standard AS2303:2015 - Tree Stock for landscape use.
9. A root barrier must be installed on both sides of the tree in the presence of footpaths and services.
10. Trees are to be located clear of stormwater infrastructure.

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STREET TREE PLANTING

Standard
Drawing
S4210

A B C D E

VARIOUS AMENDMENTS	23/10/17	DATE
D MINOR AMENDMENTS	26/11/14	
C ROOT BARRIER AMENDED, DETAIL REVISED	31/10/08	
B ROOT BARRIER AMENDED	13/01/06	
A ORIGINAL ISSUE	12/03/04	
REVISIONS		