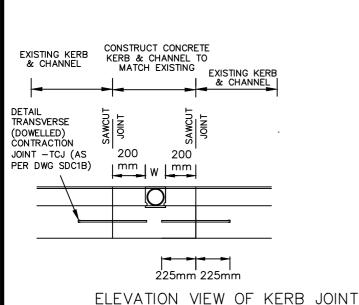


TYPE 1 - HOUSE DRAIN CONNECTION TO KERB & CHANNEL



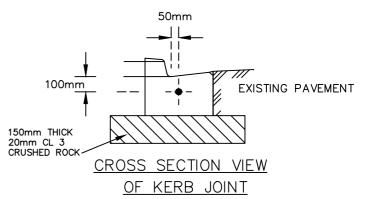
Scale 1:25

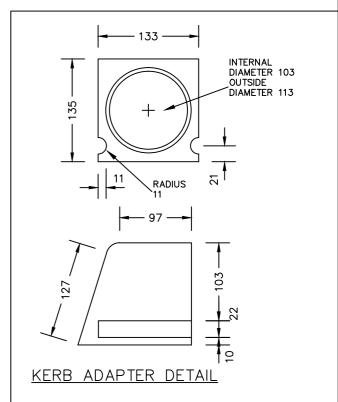
NOTES:

- GALVANISED PIPE TO BE AS FOLLOWS:

 - * 100mm DIA. GALVANISED STEEL * 4.5mm WALL THICKNESS AS1074
- * CIRCULAR HOLLOW SECTIONS 250 STEEL GRADE (TO AS1163) - ANY ASBETOS PIPE SHOULD BE REMOVED IN ACCORDANCE WITH "APPROVED CODE OF PRACTICE" (HOW TO SAFELY REMOVE ASESTOS) UNDER SECTION 274 OF THE WORK HEALTH AND SAFETY ACT (THE WHS ACT).
- WIDTH OF SAWOUT JOINT AT LOCATION DENOTED VIA 'W' TO REFLECT WIDTH OF PROPOSED HOUSE DRAIN KERB ADAPTOR
- -PVC PIPES TO BE AS FOLLOWS:

 * PVC HOUSE DRAIN CONNECTION TO KERB & CHANNEL TO BE 100MM DIA "PRESSURE" GRADE, STIFFNESS CLASS 9 (SN9) OR 10 (SN10) OR 12 (SN12) & WITH KERB ADAPTOR CAN BE PVC STIFFNESS CLASS 9 OR CAST IRON .
 - * PVC PIPES LESS THAN 300MM COVER MUST NOT CONTAIN CLASS 6 PIPE

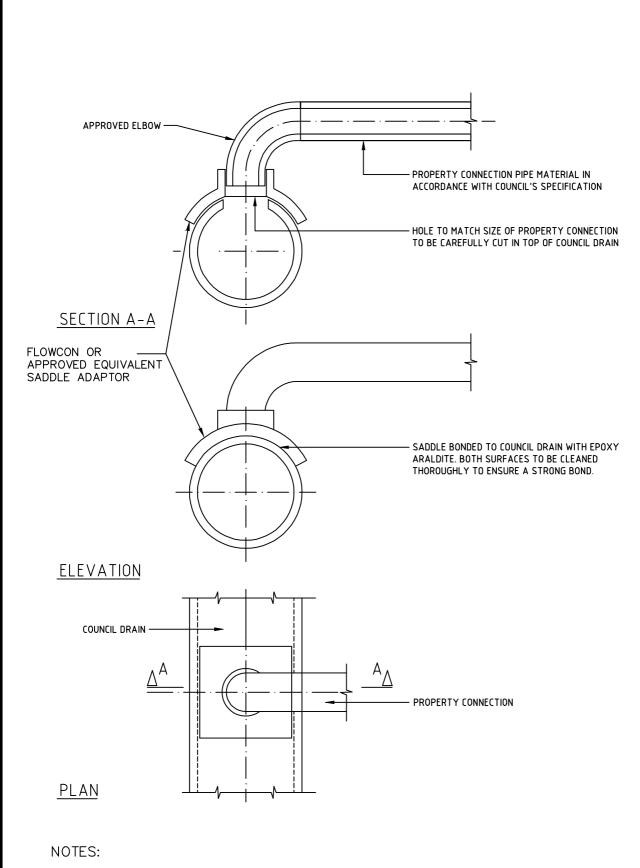




TYPE 1 - HOUSE DRAIN PIPE CONNECTIONS (TO KERB)



DRAWN: I .VANIKIOTIS	DRAWING No.	Rev.
APPROVED : T.LAM	SD D1	۸
DATE: MAY 2015	(1 of 4)	А



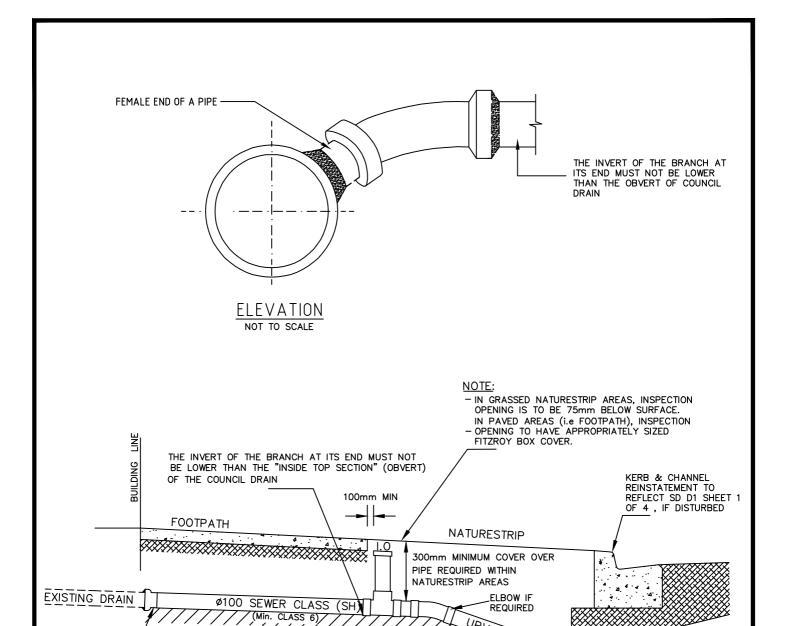
1. NEW CONNECTIONS 150Ø AND ABOVE INTO COUNCIL DRAINS REQUIRE THE CONSTRUCTION OF A PIT TO COUNCIL STANDARDS
2. ALL DRAIN CONNECTIONS SHALL BE AT RIGHT ANGLES TO THE STREET ALIGNMENT

NOT TO SCALE

TYPE 2: HOUSE DRAIN SADDLE CONNECTION TO COUNCIL STORMWATER DRAIN



DRAWN: I .VANIKIOTIS	DRAWING No.	Rev.
APPROVED : T.LAM	S.D. D1	
DATE: DECEMBER 2014	(2 of 4)	A



TYPE 3: HOUSE DRAIN CONNECTION TO UNDERGROUND BARREL DRAIN
Scale 1:25

NOTES:

HOUSE DRAIN

CONNECTION AS SHOWN ON SHEET 4 of 4 FOR PARTICULAR CASE

> NEW CONNECTIONS 150Ø AND ABOVE INTO COUNCIL DRAINS LESS THAN 450Ø REQUIRE THE CONSTRUCTION OF A PIT TO COUNCIL STANDARDS.

PROPOSED PIPE TO BE

ON 75mm MIN DEPTH, COMPACTED 20mm CLASS 2 CRUSHED

ROCK BEDDING

- FOR NEW SUBDIVISIONS, PROPERTY DEVELOPMENTS, AND WHEN UPGRADING INTERNAL PROPERTY STORMWATER DRAINAGE, THE INSPECTION OPENING (I.O.) IS TO BE LOCATED WITHIN THE PROPERTY BOUNDARY.
- PVC PIPES AND FITTINGS TO REFLECT REQUIREMENTS STIPULATED IN AS/NZS 1252: 2002
- TYPE 3 METHOD TO BE USED IF THE PIPE LEVELS ARE SUCH THAT TYPE 2 STANDARD METHOD CANNOT BE USED

TYPE 3 - HOUSE DRAIN PIPE CONNECTIONS (TO BE USED WHERE TYPE 2 CONNECTION CANNOT BE USED)



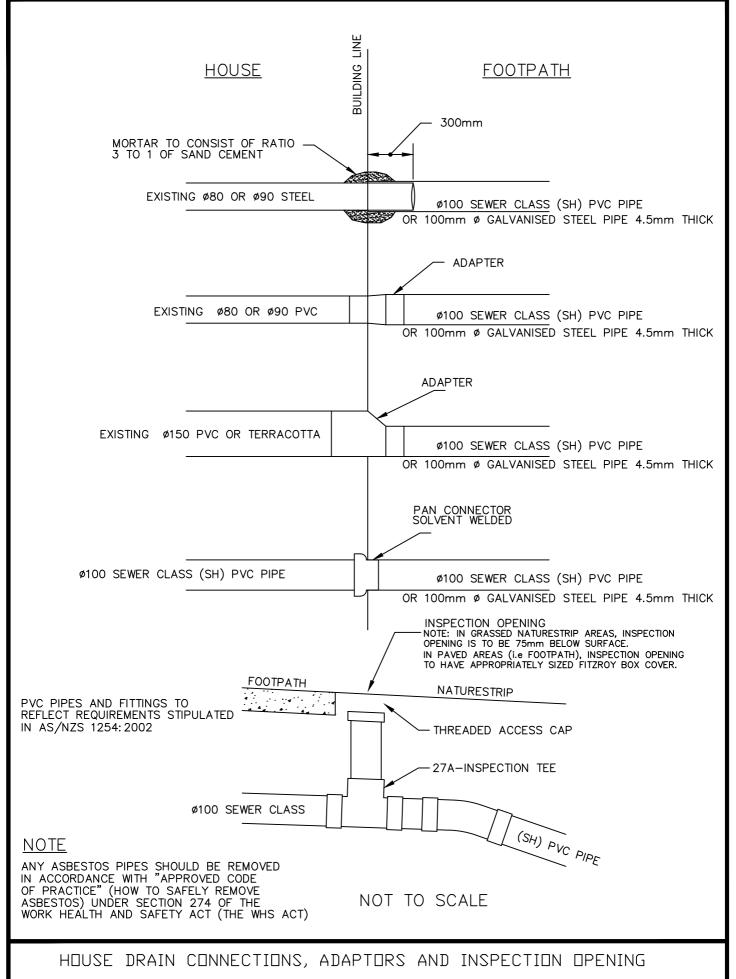
DRAWN :	I .VANIKIOTIS	DRAWING No.	Rev.
APPROVED :	T.LAM	SD D1	
DATE :	MAY 2015	(3 of 4)	A

PIP

MORTAR

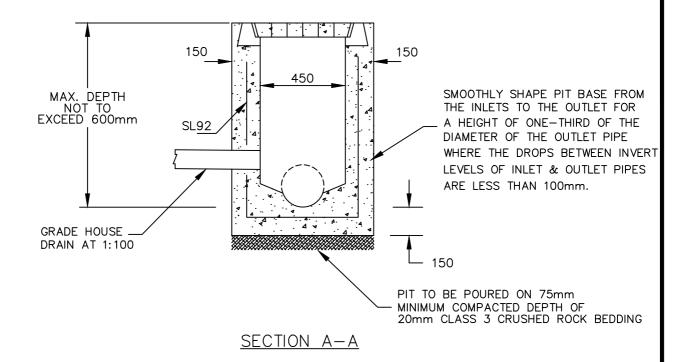
-BARREL DRAIN

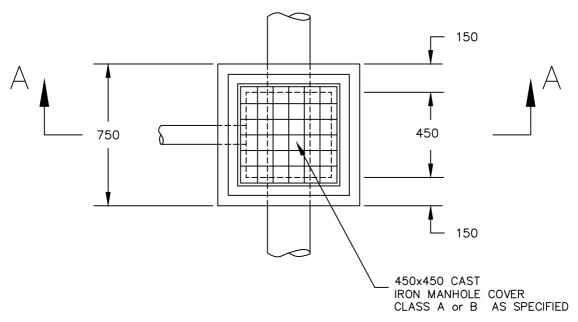
- MALE PAN CONNECTOR





DRAWN: I .VANIKIOTIS	DRAWING No.	Rev.
APPROVED : T.LAM	C D D1	
DATE: MAY 2015	(4 of 4)	А





NOTES

- PIT TO BE 32 MPa CONCRETE
- USE SL 92 REINFORCEMENT WITH 300mm MINIMUM LAP LENGTH AND CLEAR COVER OF 65mm. CORNER RETURN REINFORCEMENT MAY BE FABRIC OR EQUIVALENT BARS

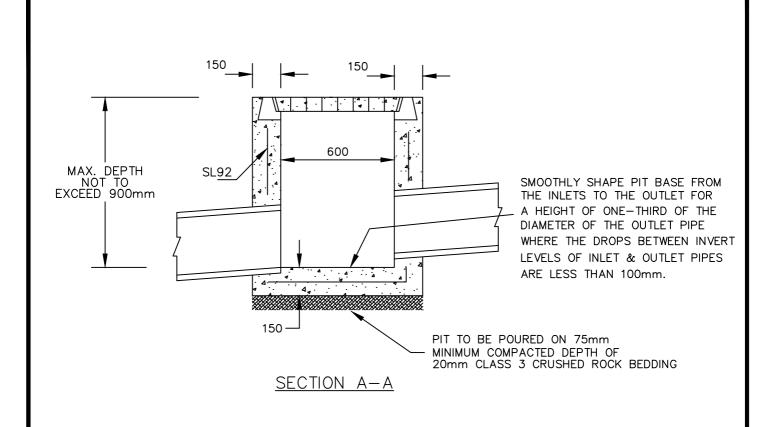
Scale 1:20

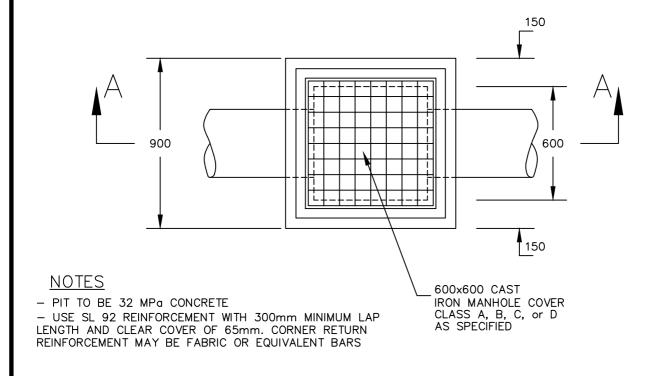
HOUSE DRAIN & PROPERTY JUNCTION PIT

(450 x 450 INTERNAL DIMENSIONS)



DRAWN: I .VANIKIOTIS	DRAWING No.	Rev.
APPROVED : T.LAM	S D D S	
DATE: DECEMBER 2014	3.0. 02	\cup





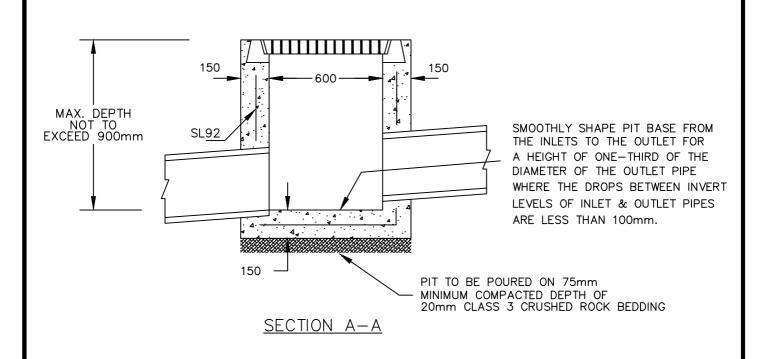
Scale 1:20

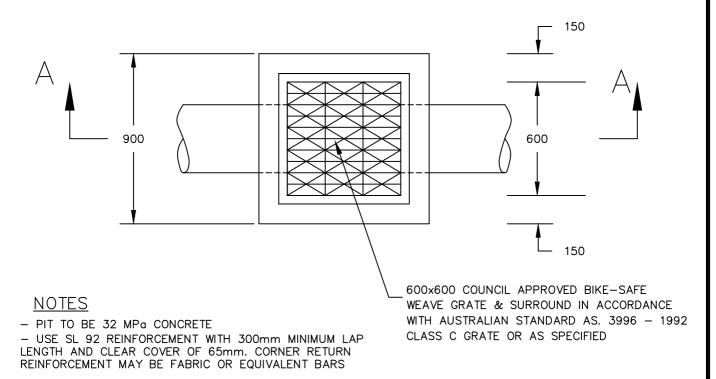
STANDARD JUNCTION PIT

(600 x 600 INTERNAL DIMENSIONS)



DRAWN: I .VANIKIOTIS	DRAWING No.	Rev.
APPROVED : T.LAM	5 D D 3	
DATE: DECEMBER 2014	3.0.00	



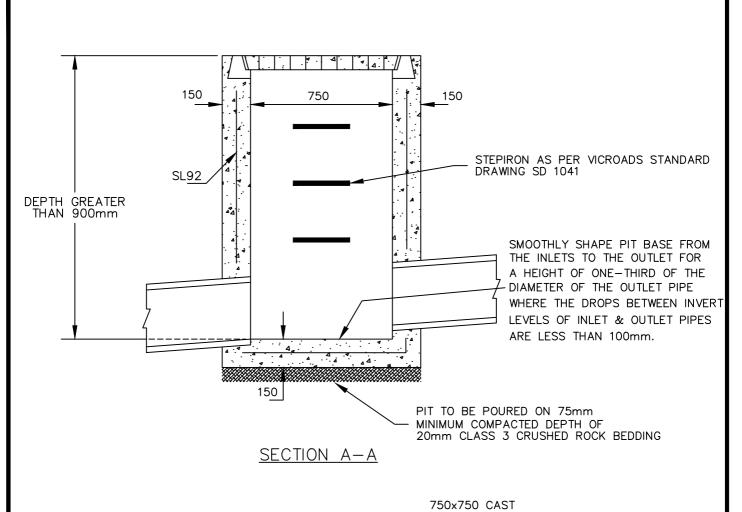


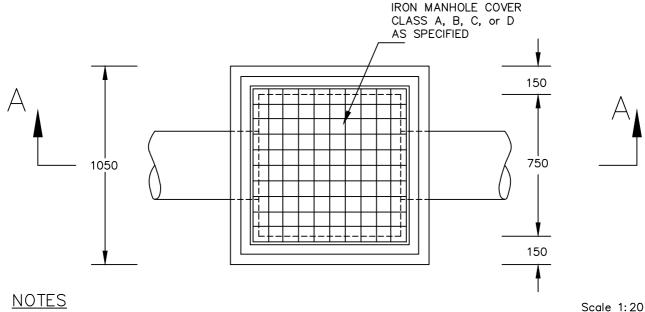
Scale 1:20

STANDARD GRATED PIT (600 x 600 INTERNAL DIMENSIONS)



DRAWN: I .VANIKIOTIS	DRAWING No.	Rev.
APPROVED : T.LAM	S D D A	\sim
DATE: DECEMBER 2014	3.0. 04	





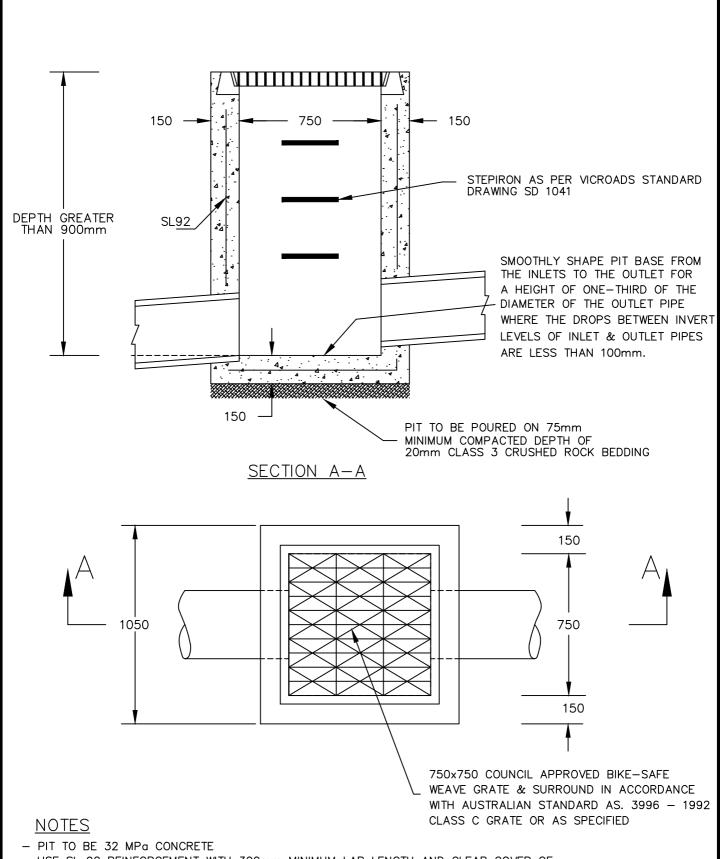
- PIT TO BE 32 MPa CONCRETE
- USE SL 92 REINFORCEMENT WITH 300mm MINIMUM LAP LENGTH AND CLEAR COVER OF 65mm. CORNER RETURN REINFORCEMENT MAY BE FABRIC OR EQUIVALENT BARS
- PIT DEPTHS GREATER THAN 2.0m DEPTH TO BE CONSTRUCTED AS PER VIC ROADS STANDARD DRAWINGS SD 1011, SD 1021 AND SD 1131.

LARGE JUNCTION PIT

(750 x 750 INTERNAL DIMENSIONS)



DRAWN:	I .VANIKIOTIS	DRAWING No.	Rev.
APPROVED :	T.LAM	9 D D 5	
DATE :	DECEMBER 2014	3.0. 03	D



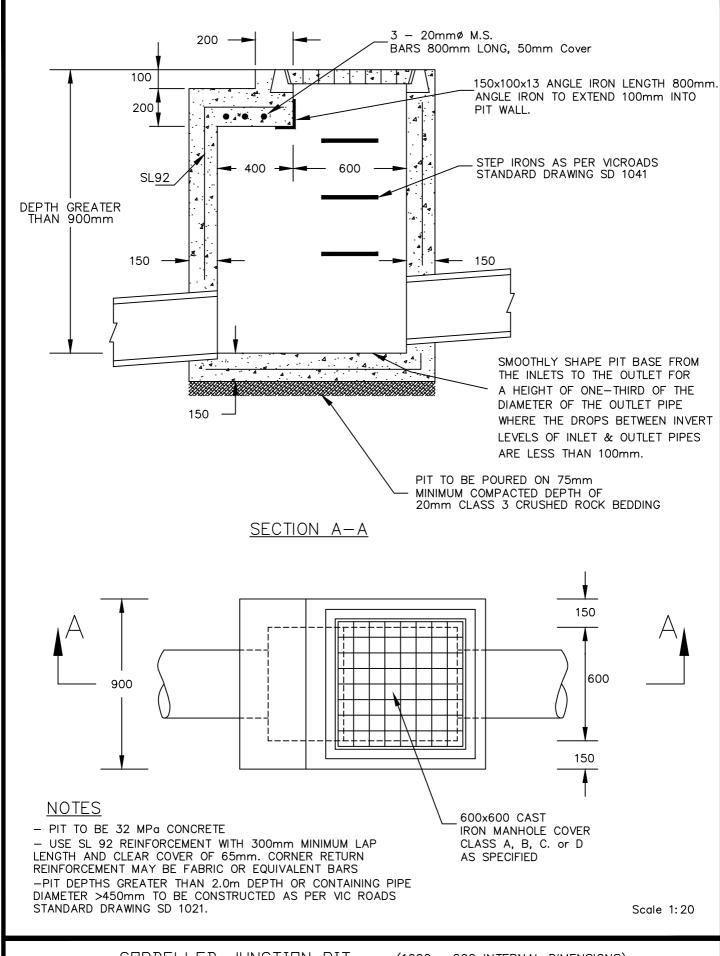
- USE SL 92 REINFORCEMENT WITH 300mm MINIMUM LAP LENGTH AND CLEAR COVER OF 65mm. CORNER RETURN REINFORCEMENT MAY BE FABRIC OR EQUIVALENT BARS
- -PIT DEPTHS GREATER THAN 2.0m DEPTH TO BE CONSTRUCTED AS PER VIC ROADS STANDARD DRAWINGS SD 1011, SD 1021 AND SD 1431.

Scale 1:20

LARGE GRATED PIT (750 x 750 INTERNAL DIMENSIONS)



DRAWN:	I .VANIKIOTIS	DRAWING No.	Rev.
APPROVED :	T.LAM	S.D. D6	\Box
DATE :	DECEMBER 2014		

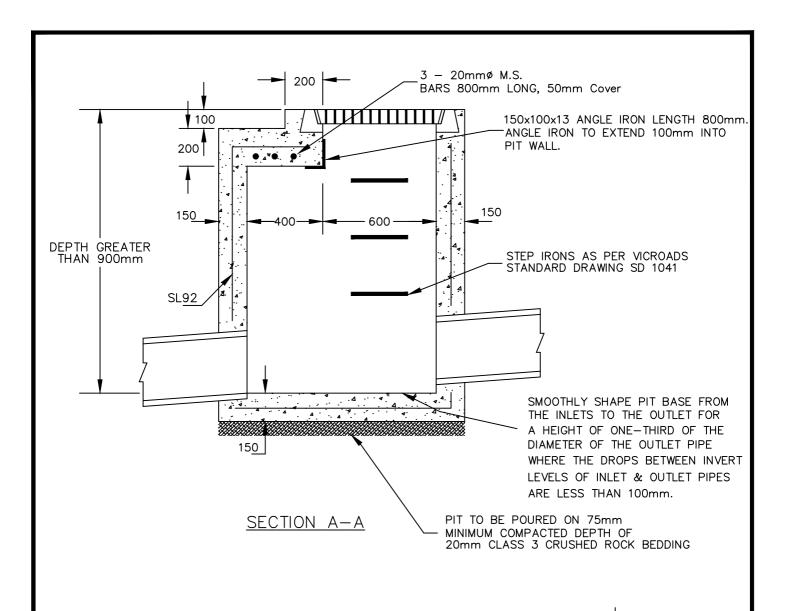


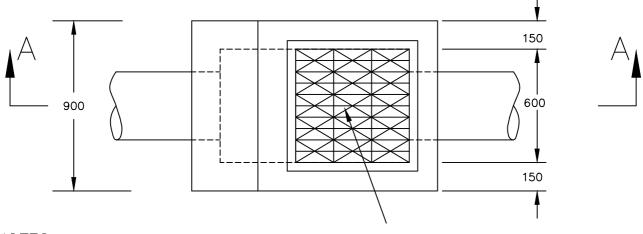
CORBELLED JUNCTION PIT

(1000 x 600 INTERNAL DIMENSIONS)



DRAWN:	I .VANIKIOTIS	DRAWING No.	Rev.
APPROVED :	T.LAM	S D D 7	
DATE :	DECEMBER 2014	3.0.07	L





NOTES

- PIT TO BE 32 MPa CONCRETE
- USE SL 92 REINFORCEMENT WITH 300mm MINIMUM LAP LENGTH AND CLEAR COVER OF 65mm. CORNER RETURN REINFORCEMENT MAY BE FABRIC OR EQUIVALENT BARS
 PIT DEPTHS GREATER THAN 2.0m DEPTH OR CONTAINING PIPE DIAMETER > 450mm TO BE CONSTRUCTED AS PER VIC ROADS STANDARD DRAWING SD 1021.

600x600 COUNCIL APPROVED BIKE-SAFE WEAVE GRATE & SURROUND IN ACCORDANCE WITH AUSTRALIAN STANDARD AS. 3996 - 1992 CLASS D GRATE OR AS SPECIFIED

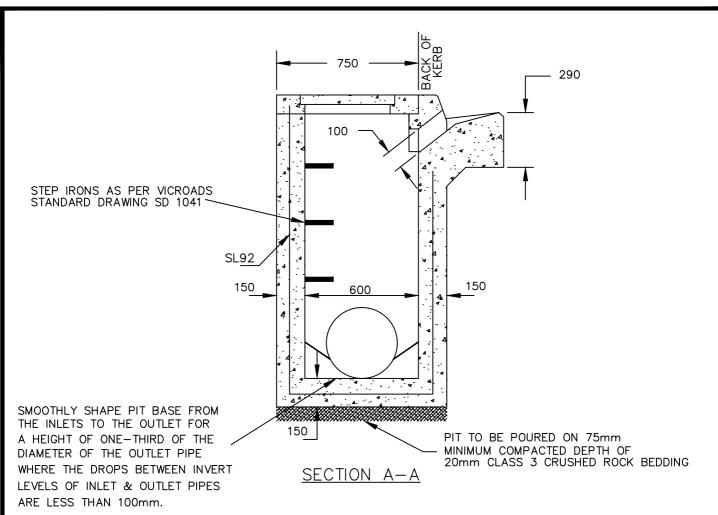
Scale 1:20

CORBELLED GRATED PIT

(1000 x 600 INTERNAL DIMENSIONS)



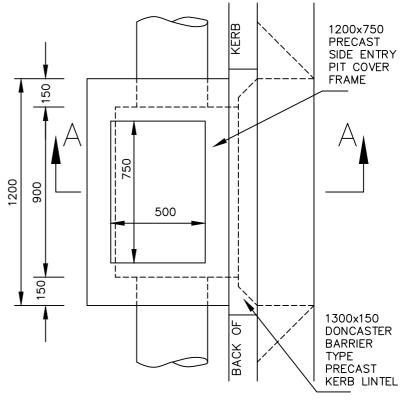
DRAWN: I .VANIKIOTIS	DRAWING No.	Rev.
APPROVED : T.LAM	SU US	
DATE: DECEMBER 2014	3.0.00	ı



NOTES

- PIT TO BE 32 MPa CONCRETE
- USE SL 92 REINFORCEMENT WITH
300mm MINIMUM LAP LENGTH AND
CLEAR COVER OF 65mm. CORNER
RETURN REINFORCEMENT MAY BE FABRIC
OR EQUIVALENT BARS

-PIT DEPTHS GREATER THAN 2.0m DEPTH TO BE CONSTRUCTED AS PER VIC ROADS STANDARD DRAWING SD 1301.

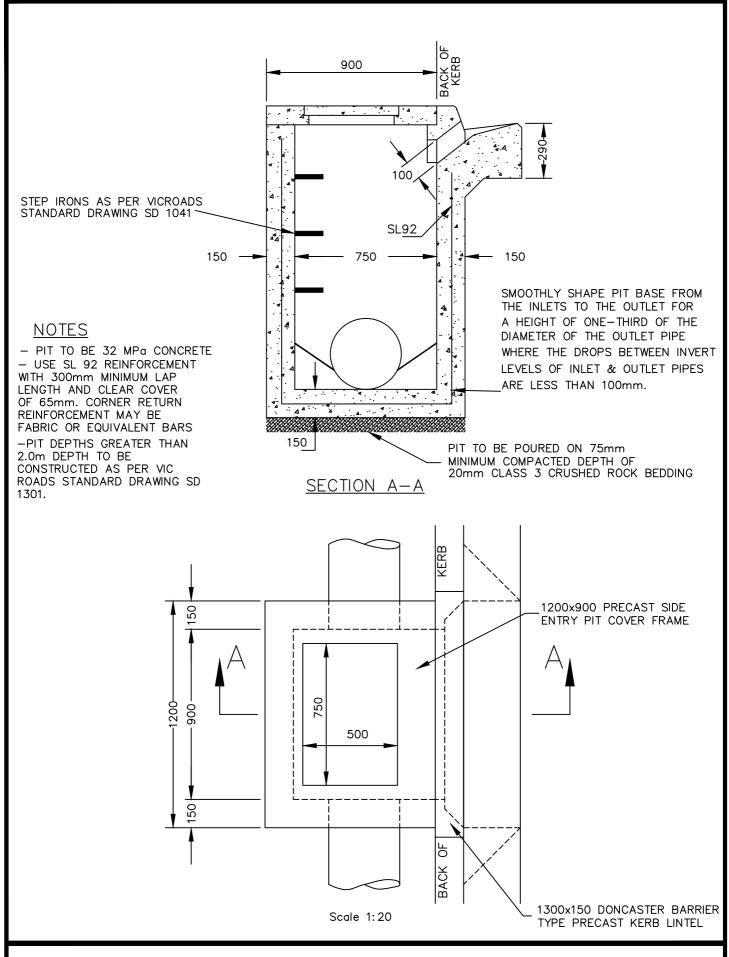


STANDARD SIDE ENTRY PIT WITH LINTEL & COVER (900 x 600 INTERNAL DIMENSIONS)



	DRAWN:	I .VANIKIOTIS	DRAWING No.	Rev.
	APPROVED :	T.LAM	S D Da	D
Ī	DATE :	DECEMBER 2014	3.0. 09	D

Scale 1:20

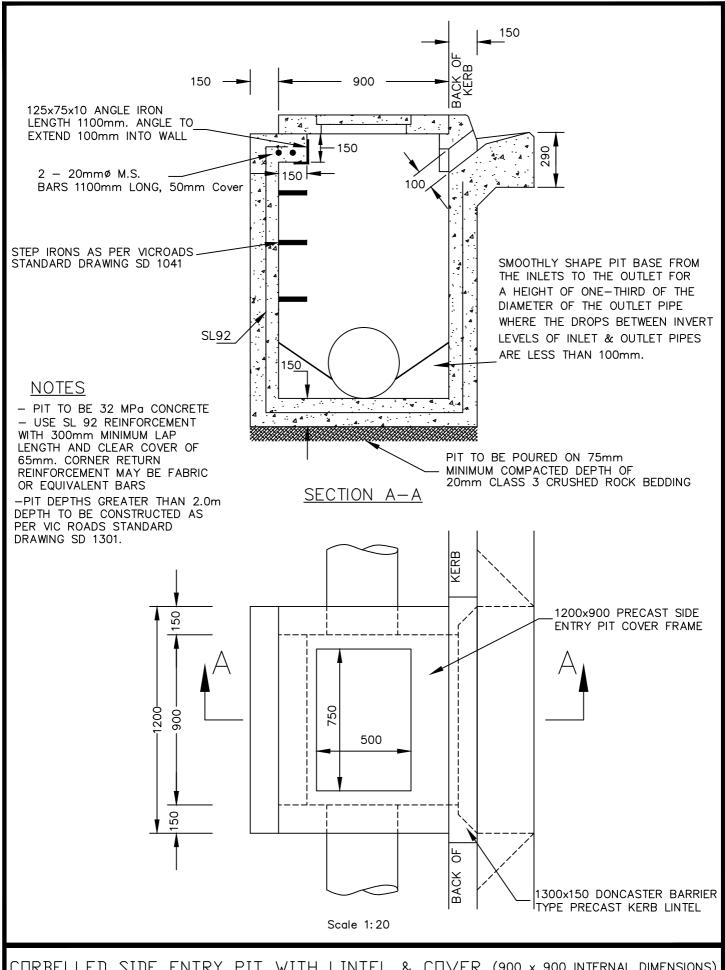


LARGE SIDE ENTRY PIT WITH LINTEL & COVER

(900 x 750 INTERNAL DIMENSIONS)



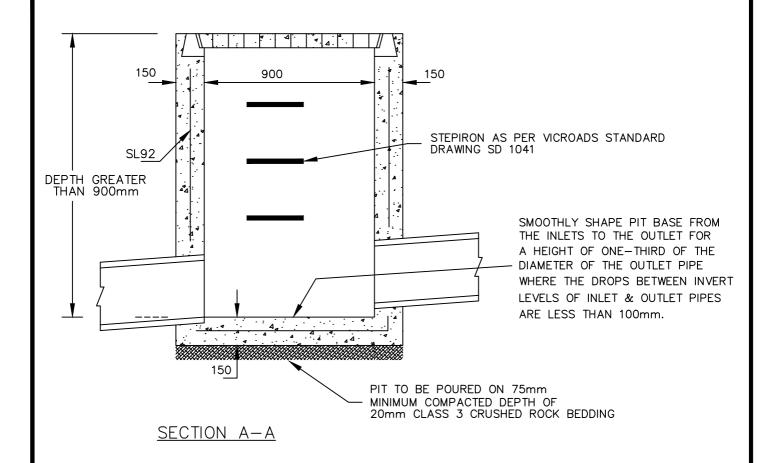
DRAWN:	I .VANIKIOTIS	DRAWING No.	Rev.
APPROVED :	T.LAM	S D D10	D
DATE :	DECEMBER 2014	3.0. 010	

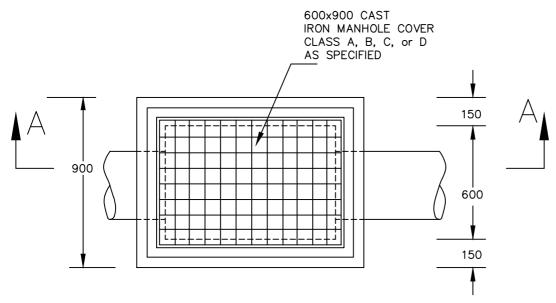


CORBELLED SIDE ENTRY PIT WITH LINTEL & COVER (900 x 900 INTERNAL DIMENSIONS)



DRAWN: I .VANIKIOTIS	DRAWING No.	Rev.
APPROVED : T.LAM	S D D11	\Box
DATE: DECEMBER 2014		





Scale 1:20

NOTES

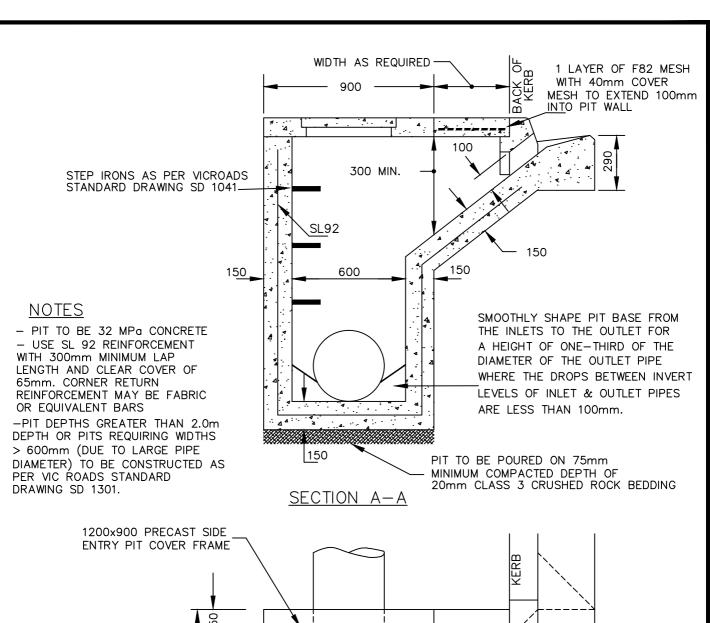
- PIT TO BE 32 MPa CONCRETE
- USE SL 92 REINFORCEMENT WITH 300mm MINIMUM LAP LENGTH AND CLEAR COVER OF 65mm. CORNER RETURN REINFORCEMENT MAY BE FABRIC OR EQUIVALENT BARS

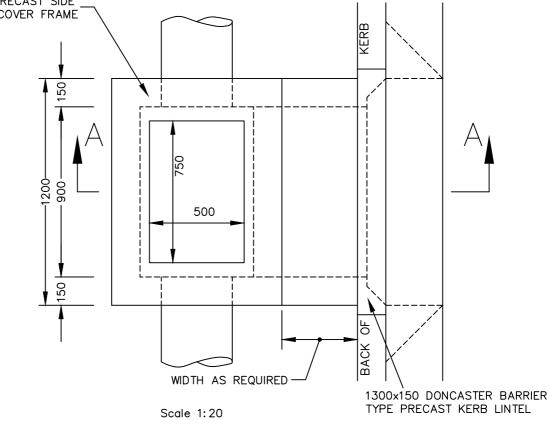
LARGE JUNCTION PIT

(600 x 900 INTERNAL DIMENSIONS)



DRAWN:	I .VANIKIOTIS	DRAWING No.	Rev.
APPROVED :	T.LAM	SD D12	
DATE :	MAY 2015	J.D. DIZ	



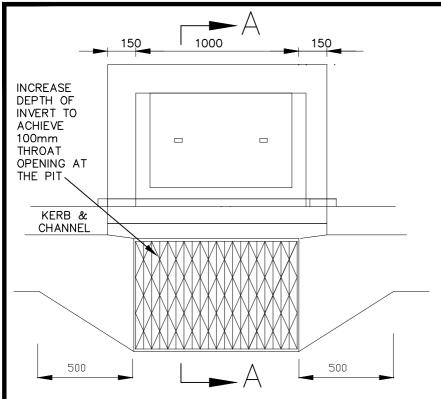


EXTENDED CHUTE SIDE ENTRY PIT WITH LINTEL & COVER

 (900×600)



DRAWN: I .VANIKIOTIS	DRAWING No.	Rev.
APPROVED : T.LAM	S D D13	П
DATE: DECEMBER 2014		L



NOTES

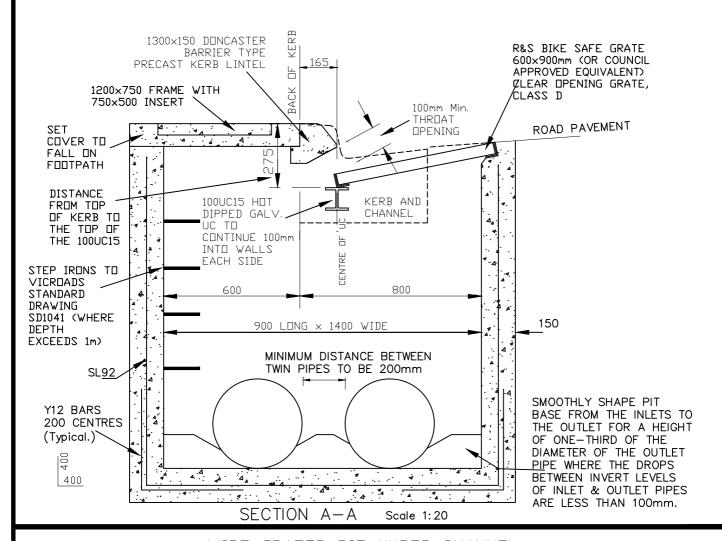
1. ALL CONCRETE TO BE 32MPa.

- 2. ALL DIMENSIONS ARE IN mm's.
- 3. GRATE TO BE BIKE SAFE GRATE CLASS D, DIMENSIONS OF THE GRATE ARE FOR THE CLEAR OPENING. SUPPLIER AND GRATE TO BE APPROVED BY SUPERINTENDANT'S REPRESENTATIVE PRIOR TO COMMENCEMENT OF WORKS.

EXISTING APPROVED SUPPLIER; R&S GRATING, BIKE SAFE GRATES 13 HEALY ROAD DANDENONG SOUTH.Ph. 9238 5888 www.grating.com.au

- 4. THE FRONT WALL IS TO BE CORBELED FOR PIPES LARGER THAN 750mm Dia. RUNNING PARALLEL WITH THE KERB AND CHANNEL.
- 5. USE SL 92 REINFORCEMENT WITH 300mm MINIMUM LAP LENGTH AND CLEAR COVER OF 65mm. CORNER RETURN REINFORCEMENT MAY BE FABRIC OR EQUIVALENT BARS

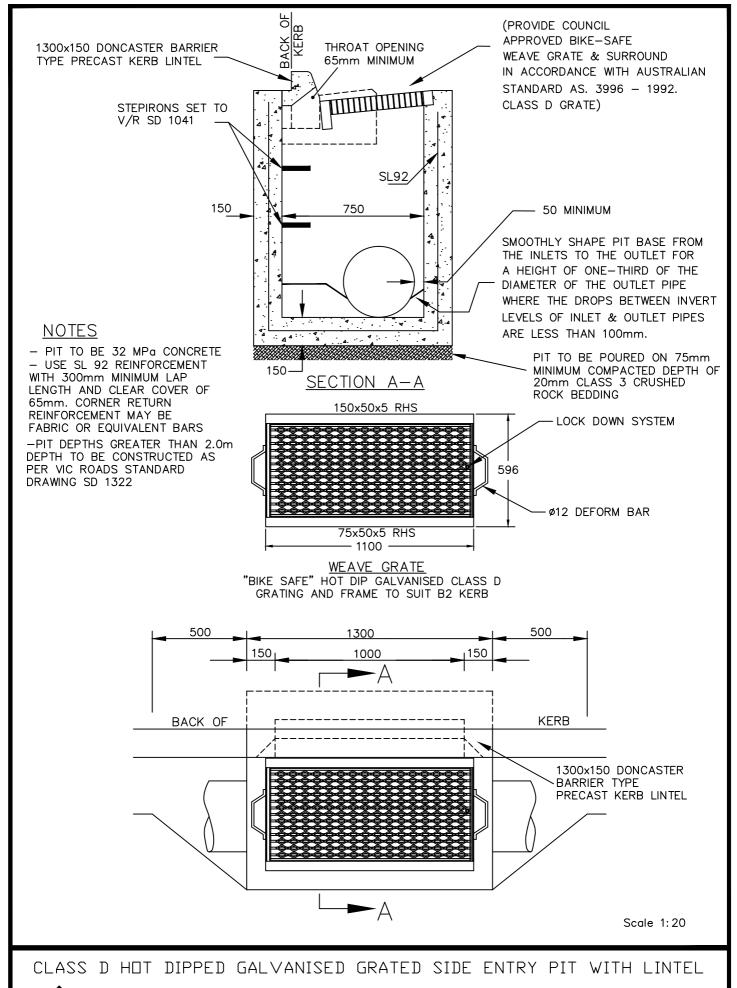
PLAN WIDE GRATED PIT UNDER CHANNEL



WIDE GRATED PIT UNDER CHANNEL.

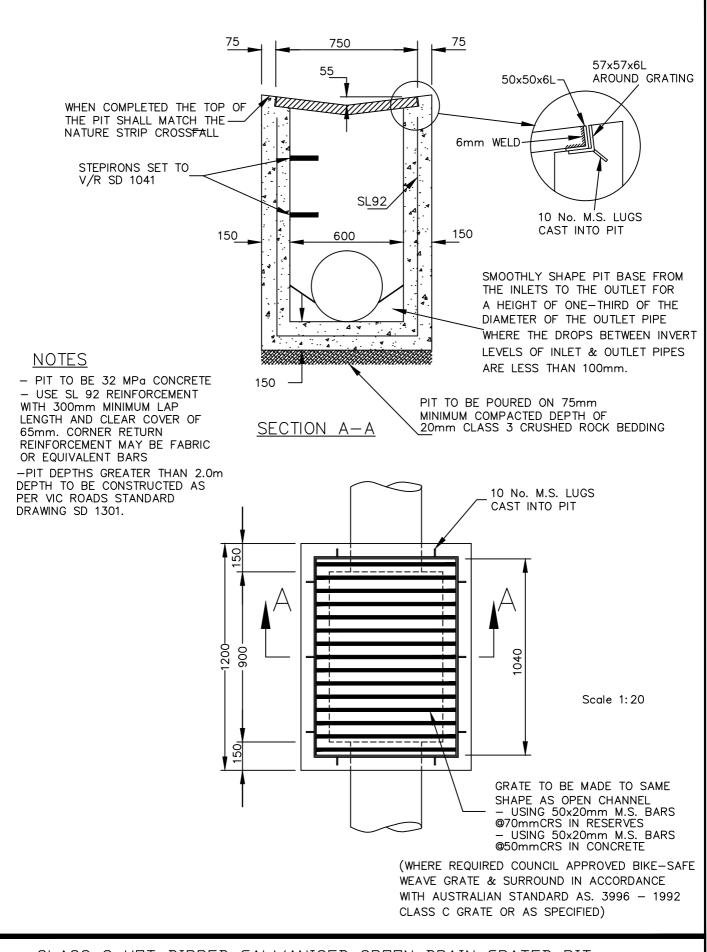


DRAWN:	I .VANIKIOTIS	DRAWING No.	Rev.
APPROVED :	T.LAM	V D D1	•
DATE :	MAY 2015	J.D. DI4	





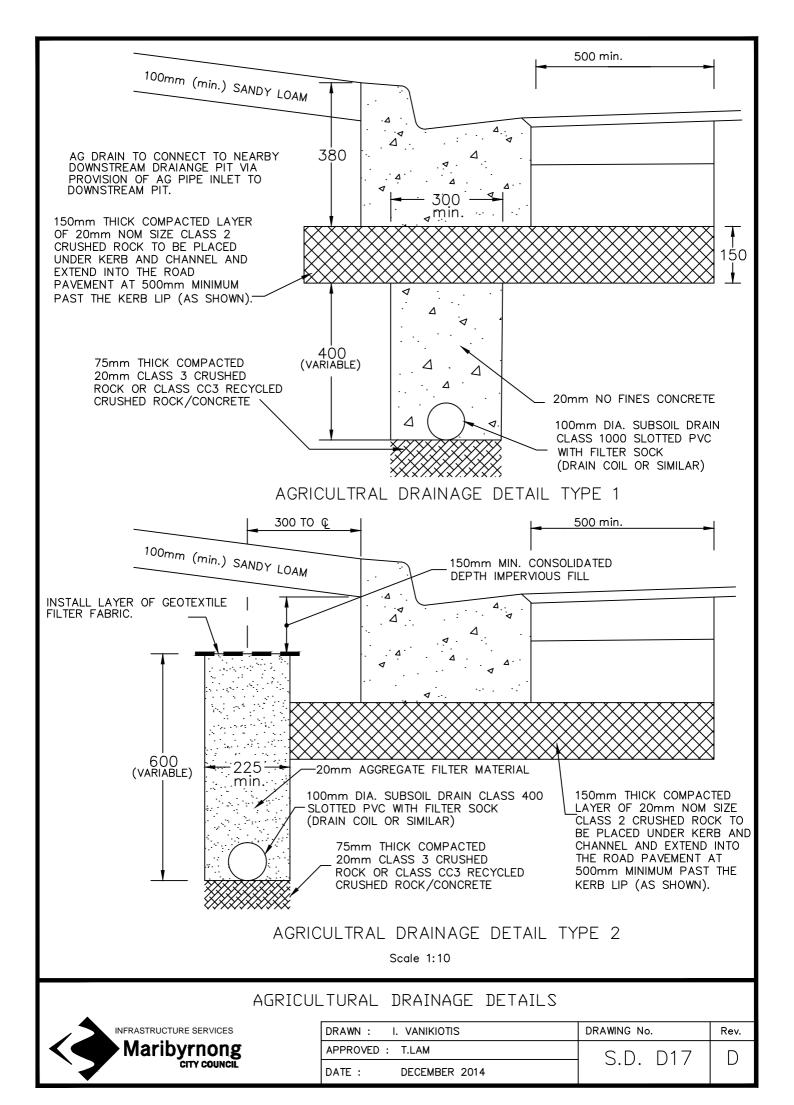
DRAWN:	I .VANIKIOTIS	DRAWING No.	Rev.
APPROVED :	T.LAM	S D D15	П
DATE :	DECEMBER 2014	J.D. DIJ	L

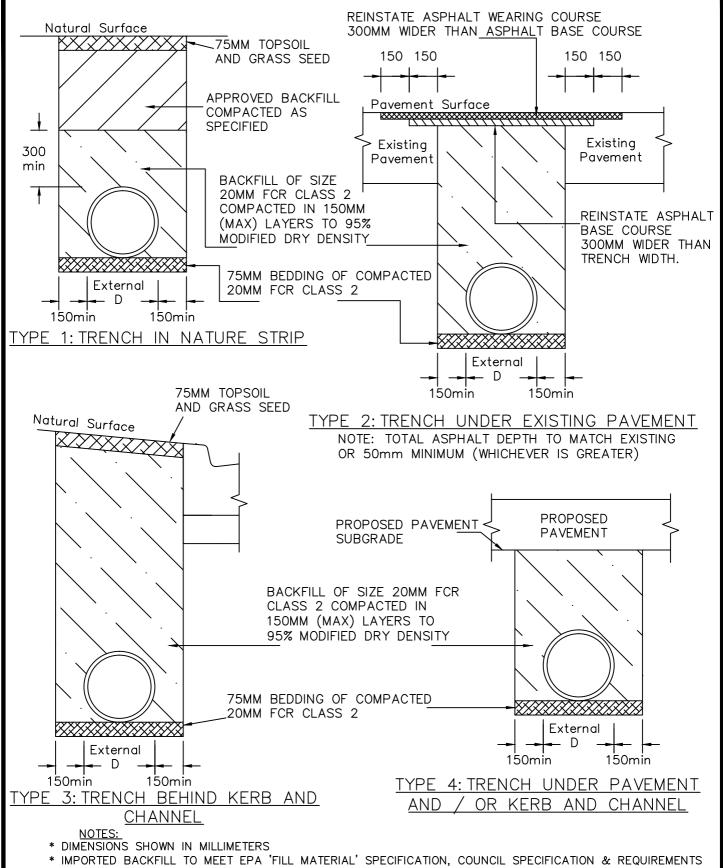


CLASS C HOT DIPPED GALVANISED SPOON DRAIN GRATED PIT



DRAWN:	I .VANIKIOTIS	DRAWING No.	Rev.	
APPROVED :	T.LAM	SD D16	J	
DATE :	DECEMBER 2014	J.D. DIO		





AND APPROVED BY COUNCIL'S SUPERINTENDENT.

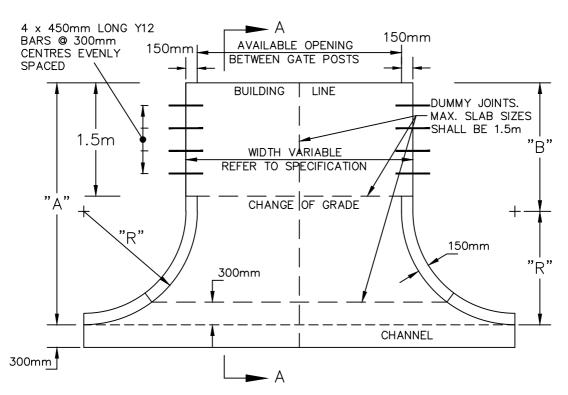
TOP SOIL BACKFILL TO BE TOP SOIL PREVIOUSLY STRIPPED FROM THE CONSTRUCTION SITE, IF APPROVED TO BE SUITABLE, OTHERWISE IMPORTED TOPSOIL AS PER COUNCIL SPECIFICATION AND REQUIREMENTS.

Scale 1:20

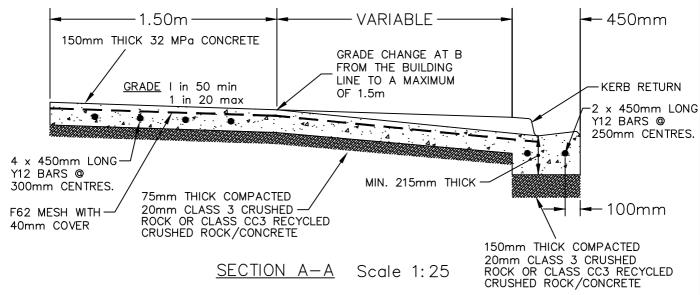
DRAINAGE BACKFILL DETAILS



DRAWN:	A.TURKER	DRAWING No.	Rev.
APPROVED :	T.LAM	C D D18	Ω
DATE :	FEBRUARY 2014	3.0. 010	D



PLAN Scale 1:50



BULL NOSE PERMITTED IF AGREED BY COUNCIL

TABLE OF VARIABLES "B" AND "R" GIVEN VARIABLE "A"

"A" LESS THAN 2.25m	B = 2/3A	R = 1/3A
"A" BETWEEN 2.25m AND 3.00m	B = 1.50m	R = A-1.50m
"A" GREATER THAN 3.00m	B = A-1.50m	R = 1.50m

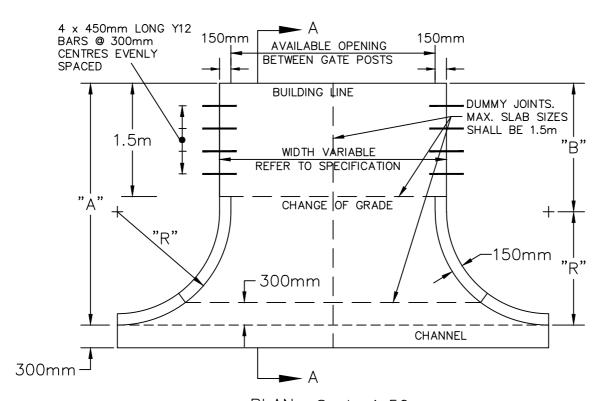
UNLESS NOTED OTHERWISE, CHARCOAL COLOURED CONCRETE IN HERITAGE AREAS TO CONSIST OF EITHER:

- * 1 X 25 KG BAG OF BAYER BLACK POWDER PER CUBIC METRE OF CONCRETE , OR
- * 1 X 25 KG BAG OF ABILOX BLACK CAF-X2 (4.15%) PER 2 CUBIC METRES OF CONCRETE.

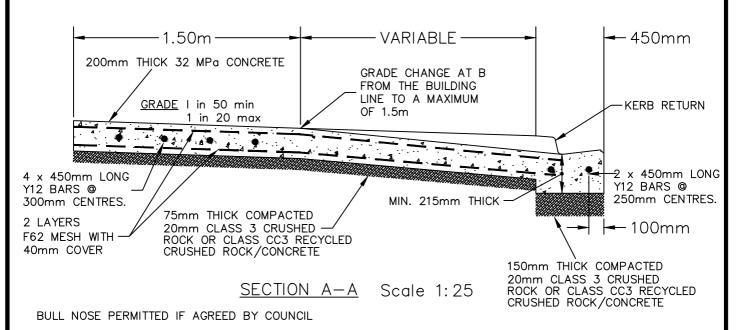
RESIDENTIAL VEHICULAR CROSSING (WITH RADIALS)



DRAWN:	I. VANIKIOTIS	DRAWING No.	Rev.
APPROVED :	T. LAM	SD V1	
DATE :	MAY 2015	J.D. AT	



PLAN Scale 1:50

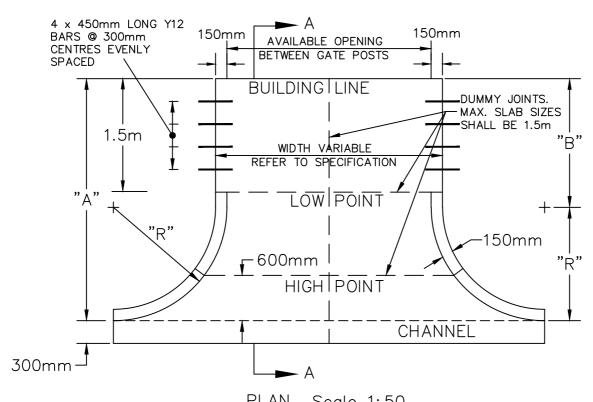


"A" LESS THAN 2.25m	B = 2/3A	R = 1/3A
"A" BETWEEN 2.25m AND 3.00m	B = 1.50m	R = A-1.50m
"A" GREATER THAN 3.00m	B = A-1.50m	R = 1.50m

INDUSTRIAL VEHICULAR CROSSING



	RAWN:	I. VANIKIOTIS	DRAWING No.	Rev.
A	APPROVED :	T. LAM) U S	
	ATE:	MAY 2015	3.D. AZ	



PLAN Scale 1:50

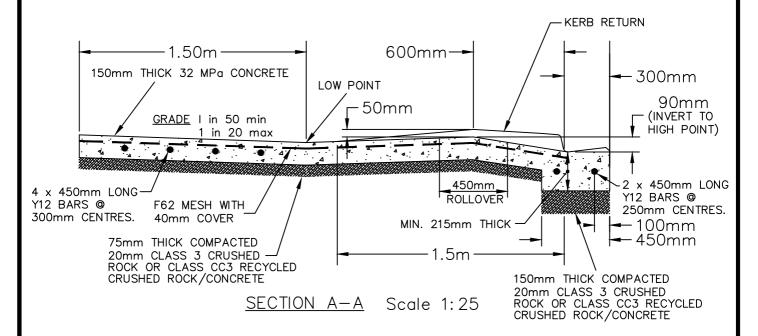


TABLE OF VARIABLES "B" AND "R" GIVEN VARIABLE "A"

"A" LESS THAN 2.25m	B = 2/3A	R = 1/3A
"A" BETWEEN 2.25m AND 3.00m	B = 1.50m	R = A-1.50m
"A" GREATER THAN 3.00m	B = A-1.50m	R = 1.50m

UNLESS NOTED OTHERWISE, CHARCOAL COLOURED CONCRETE IN HERITAGE AREAS TO CONSIST OF EITHER:

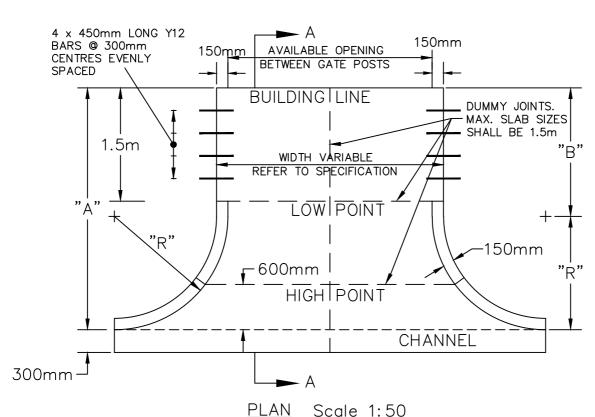
* 1 X 25 KG BAG OF BAYER BLACK POWDER PER CUBIC METRE OF CONCRETE, OR

* 1 X 25 KG BAG OF ABILOX BLACK CAF-X2 (4.15%) PER 2 CUBIC METRES OF CONCRETE.

REVERSE FALL RESIDENTIAL VEHICULAR CROSSING



DRAWN :	I. VANIKIOTIS	DRAWING No.	Rev.
APPROVED :	T. LAM	SD V3	7
DATE :	MAY 2015	J.D. AJ	



ILAN Scale 1.50

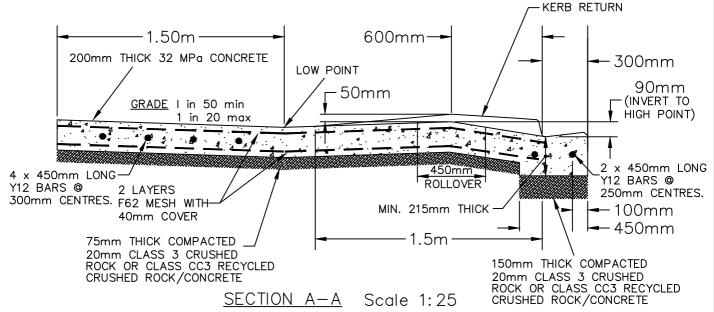


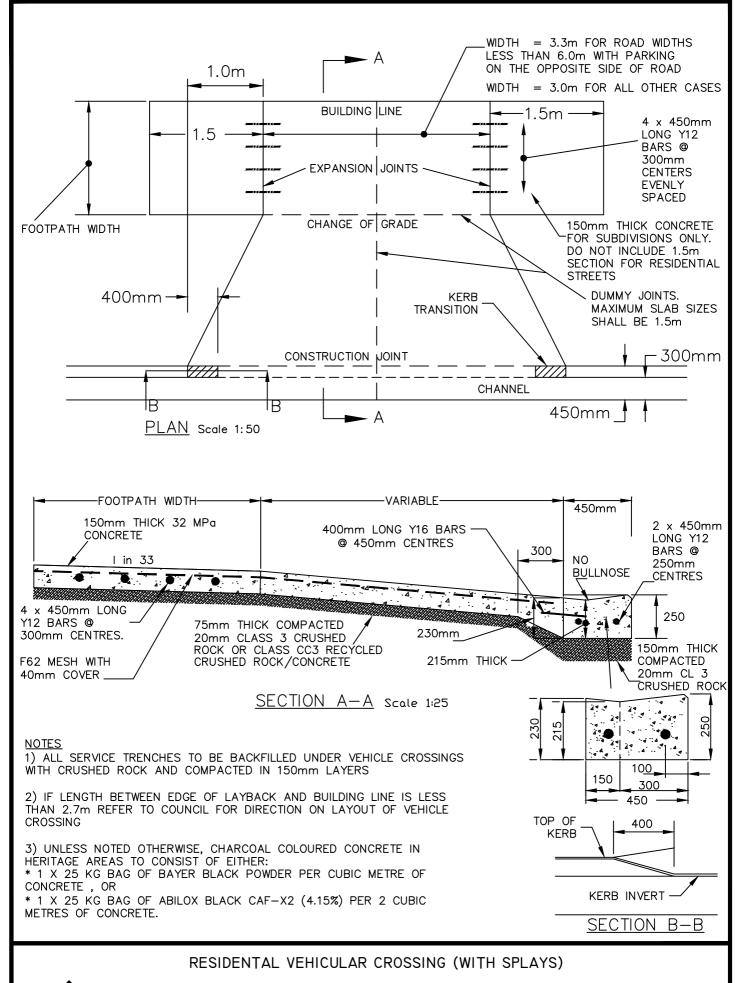
TABLE OF VARIABLES "B" AND "R" GIVEN VARIABLE "A"

"A" LESS THAN 2.25m	B = 2/3A	R = 1/3A
"A" BETWEEN 2.25m AND 3.00m	B = 1.50m	R = A-1.50m
"A" GREATER THAN 3.00m	B = A-1.50m	R = 1.50m

REVERSE FALL INDUSTRIAL VEHICULAR CROSSING (WITH RADIALS)

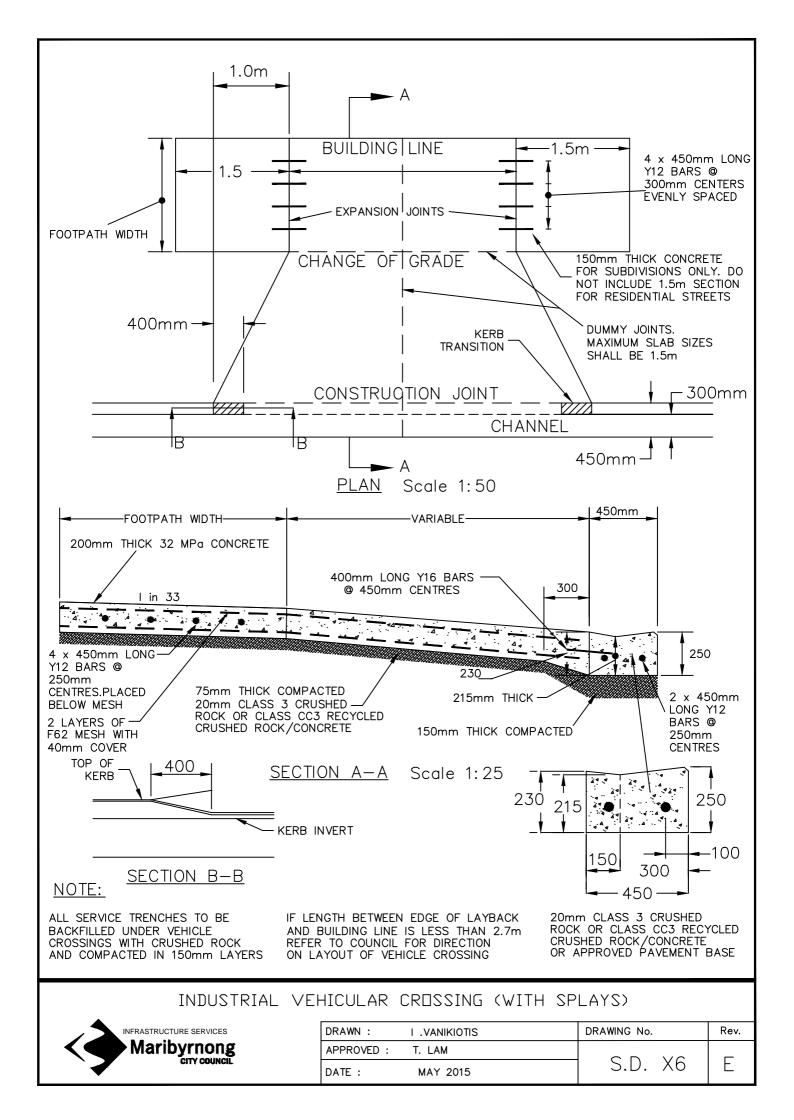


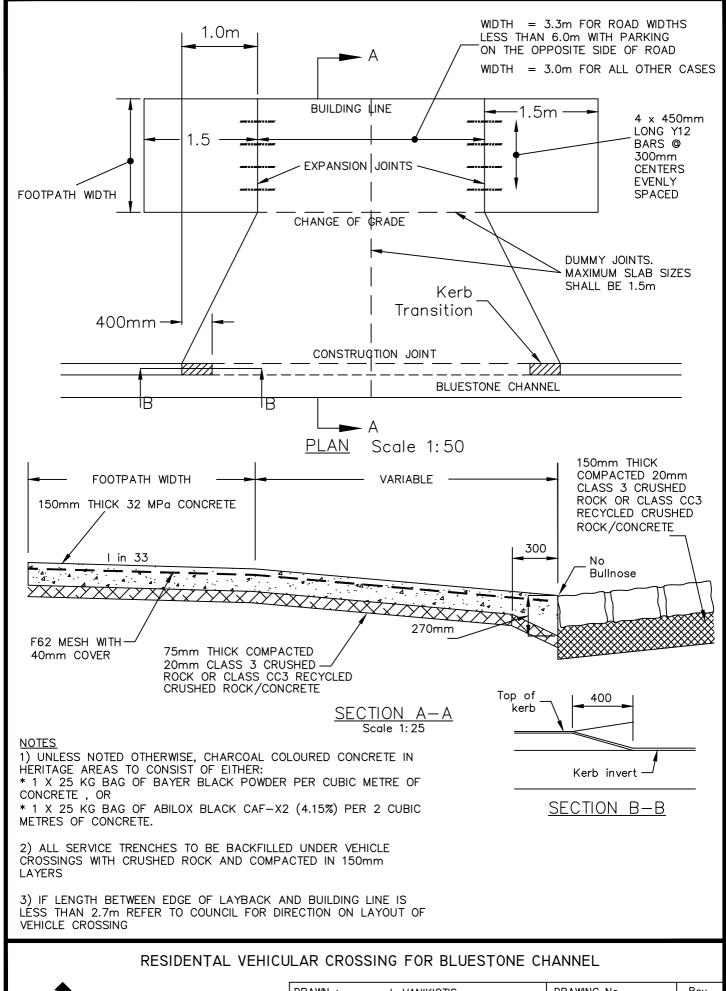
DRAWN:	I .VANIKIOTIS	DRAWING No.	Rev.
APPROVED :	T. LAM	S D X A	\Box
DATE :	MAY 2015	J.D. A4	





DRAWN:	I. VANIKIOTIS	DRAWING No.	Rev.
APPROVED :	T. LAM	0 D 75	Г
DATE :	MAY 2015	J.D. AJ	L

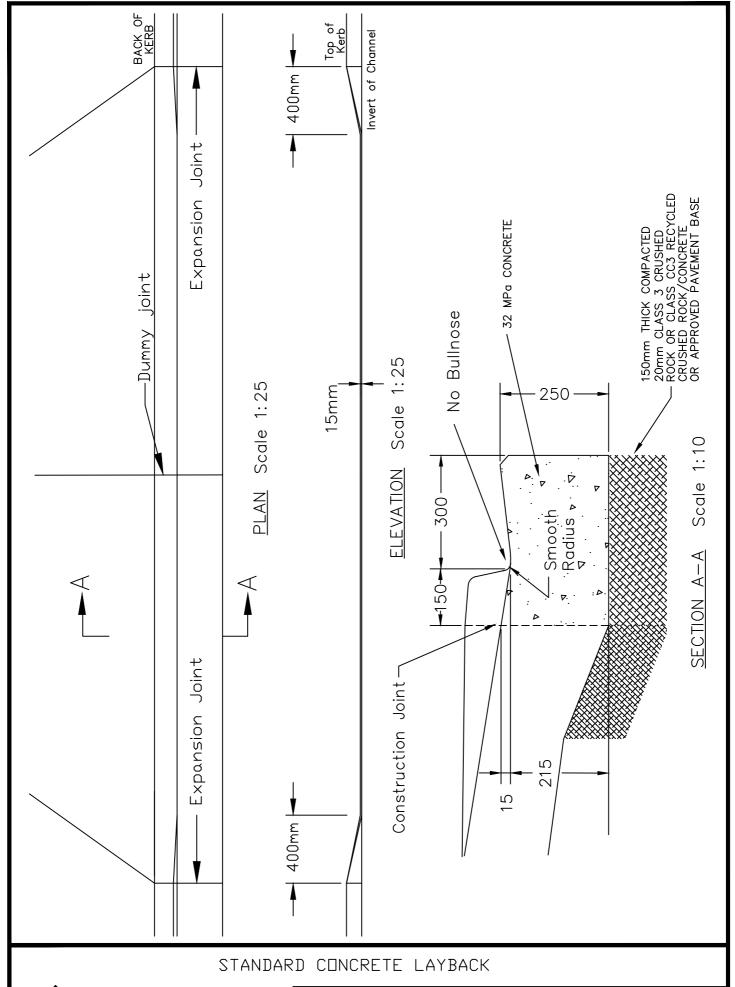




Maribyrnong DRAV

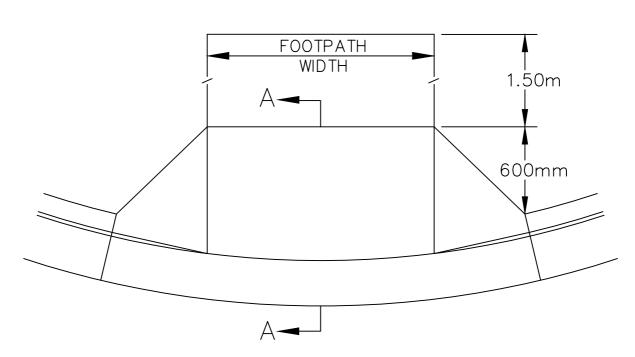
CITY COUNCIL

DRAWN:	I. VANIKIOTIS	DRAWING No.	Rev.
APPROVED :	T. LAM	S D Y 7	
DATE :	MAY 2015	J.D. X7	

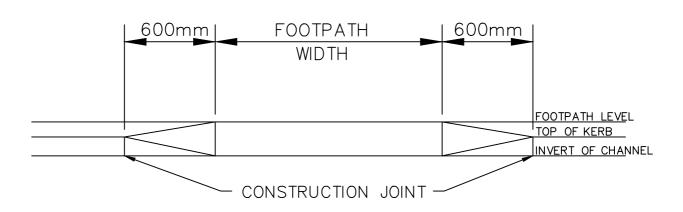




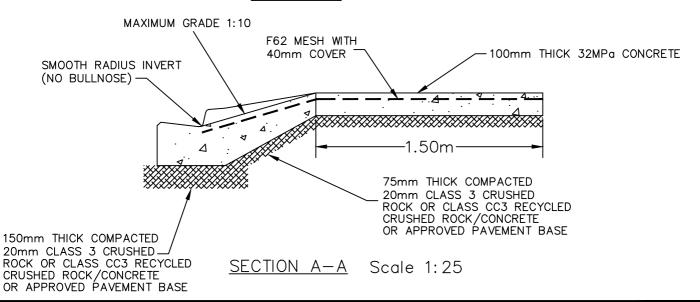
DRAWN:	I. VANIKIOTIS	DRAWING No.	Rev.
APPROVED :	T. LAM	0	
DATE :	MAY 2015	S.D. X8	•



PLAN Scale 1:25



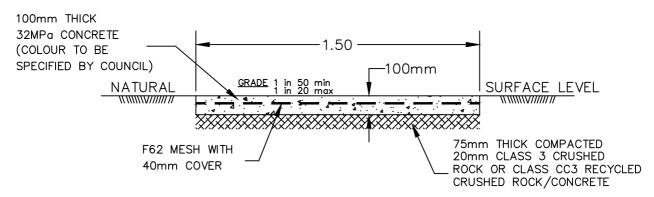
ELEVATION Scale 1:25



PRAM CROSSING



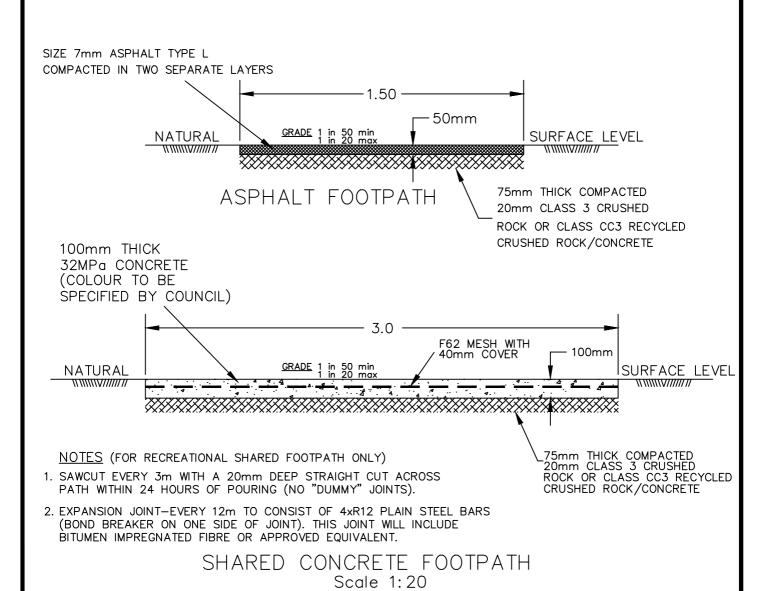
DRAWN :	I. VANIKIOTIS	DRAWING No.	Rev.
APPROVED :	T. LAM		
DATE :	MAY 2015	S.D. X9	A



REINFORCED CONCRETE FOOTPATH

UNLESS NOTED OTHERWISE, CHARCOAL COLOURED CONCRETE IN HERITAGE AREAS TO CONSIST OF EITHER:

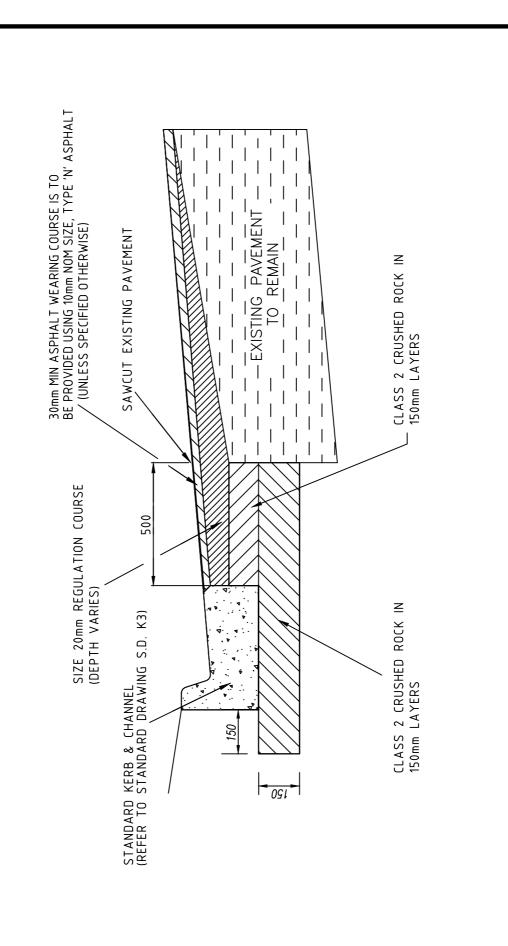
- * 1 X 25 KG BAG OF BAYER BLACK POWDER PER CUBIC METRE OF CONCRETE , OR
- * 1 X 25 KG BAG OF ABILOX BLACK CAF-X2 (4.15%) PER 2 CUBIC METRES OF CONCRETE.



DETAILS OF VARIOUS FOOTPATHS



DRAWN: I. VANIKIOTIS	DRAWING No.	Rev.
APPROVED : T. LAM	SD V10	J
DATE : MAY 2015	J.D. XIO	D

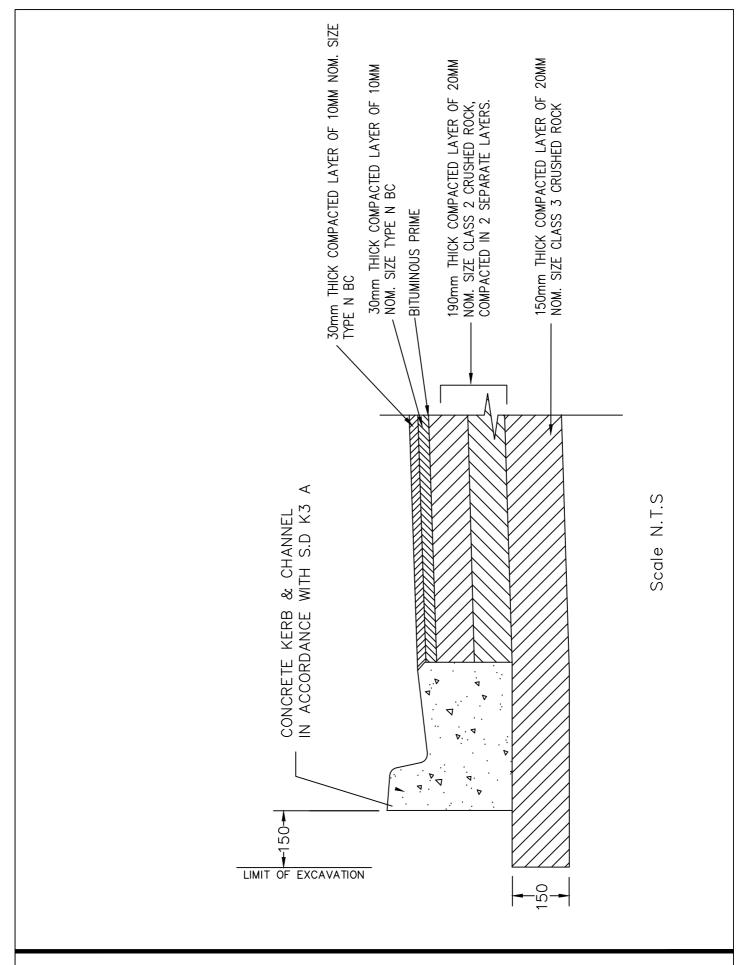


Scale NTS

PAVEMENT REHABILITATION DETAIL



DRAWN :	I. VANIKIOTIS	DRAWING No.	Rev.
APPROVED :	T. LAM	SD K1	٨
DATE :	DECEMBER 2014	J.D. KI	



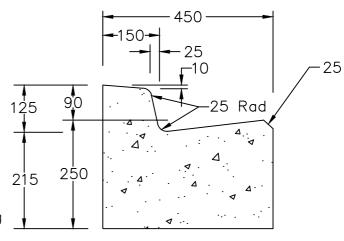
PAVEMENT RECONSTRUCTION DETAIL



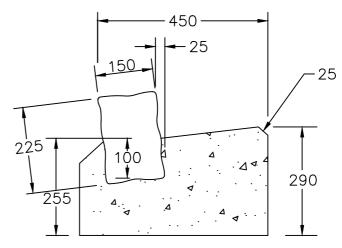
DRAWN :	I. VANIKIOTIS	DRAWING No.	Rev.
APPROVED :	T. LAM	SD K3	
DATE :	MAY 2015	J.D. NZ	A

NOTES:

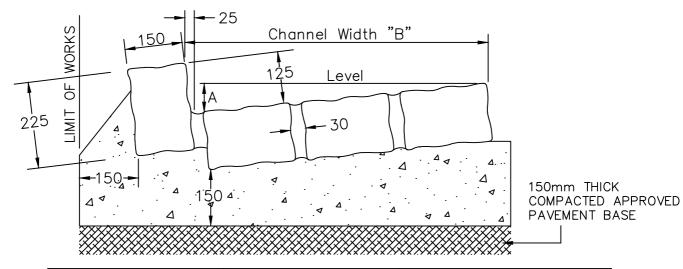
- 1. All concrete to be 32 MPa.
- 2. All concrete kerbs & channels to be constructed on a 150mm thick layer of 20mm Class 2 FCR, unless otherwise indicated on design drawings or as directed by Council's Infrastructure Planning and Construction representatives.
- 3. All grouted joints to be average 30mm wide by depth of pitcher. Flush joint finish only.
- 4. Grouting shall be pointed up with charcoal coloured cement mortar.
- 5. Cement mortar shall consist of: 1 part Bayern powder, 5 parts cement, 15 parts sand or approved grit, 15 parts stone dust.



STANDARD KERB & CHANNEL



BLUESTONE KERB & CONCRETE CHANNEL



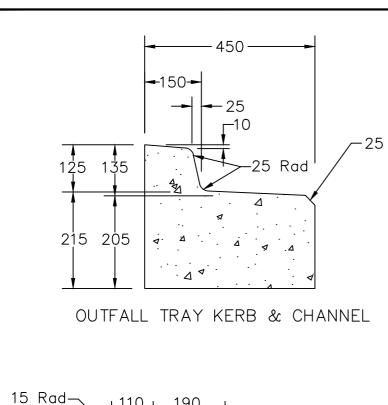
No. of pitchers (tray)	Channnel crossfall "A"	Channel Width "B" (Width to be constant)
1	25mm	255mm
2	50mm	510mm
3	75mm	765mm

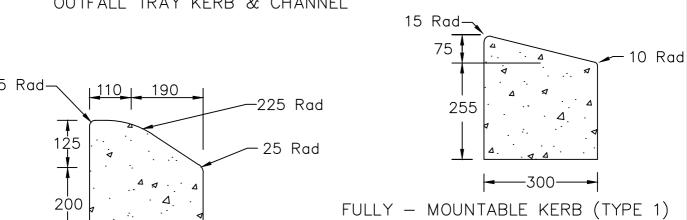
BLUESTONE PITCHER KERB & CHANNEL Scale 1:10

DETAILS OF VARIOUS KERB & CHANNEL



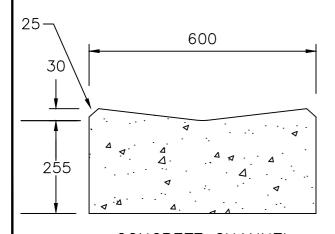
DRAWN :	I. VANIKIOTIS	DRAWING No.	Rev.
APPROVED :	T. LAM	SD K3	(
DATE :	DECEMBER 2014	J.D. NJ	





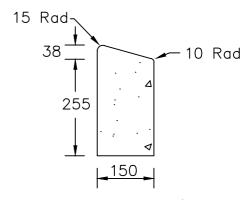
SEMI-MOUNTABLE KERB

-300-



CONCRETE CHANNEL

Scale 1:10



FULLY - MOUNTABLE KERB (TYPE 2)

-150**-**

BARRIER KERB

125

215

25

-10

25 Rad

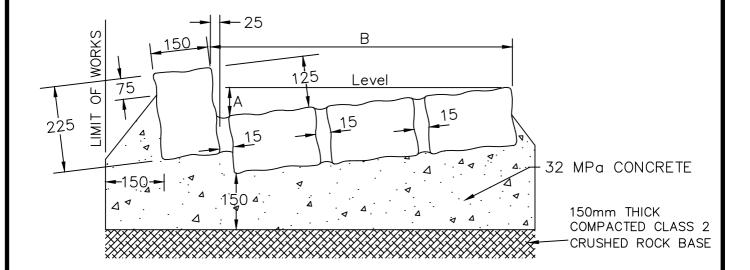
NOTES:

- 1. All concrete to be 32 MPa.
- 2. All concrete kerbs & channels to be constructed on a 150mm thick layer of 20mm Class 2 FCR, unless otherwise indicated on design drawings or as directed by Council's Infrastructure Planning and Construction representatives.

DETAILS OF VARIOUS KERB & CHANNEL



DRAWN:	I .VANIKIOTIS	DRAWING No.	Rev.
APPROVED :	T. LAM		D
DATE :	DECEMBER 2014] 3.D. K4	



No. of pitchers (tray)	Channnel crossfall "A"	Approx channel width "B" (Width to be constant)
1	25	240
2	50	480
3	75	720

BLUESTONE PITCHER KERB & CHANNEL

Not to Scale.

All measurements in millimeters

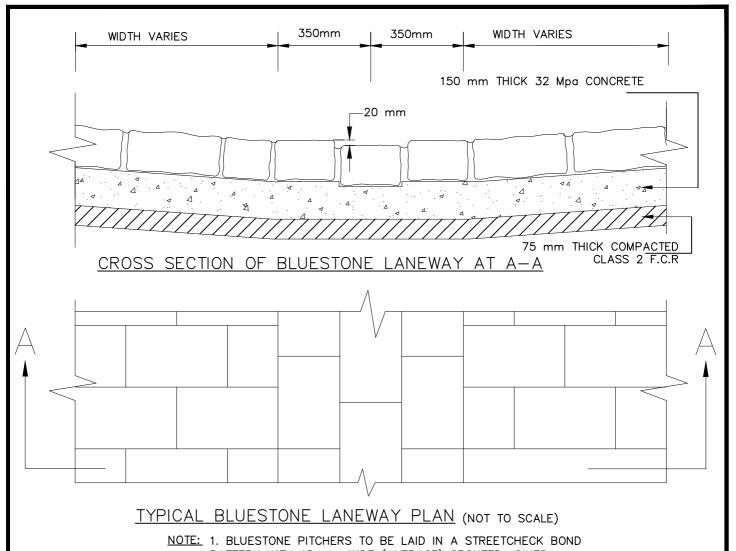
NOTES

- 1. Pitcher sizes (225 \times 150 \times 300 length) are an average size only.
- 2. All grouted mortar joints to be an average 15mm wide by depth of pitcher.
- 3. Grouting shall be flush joint finish only with charcoal coloured cement mortar, consisting of the following mix:
 - * 1 part Bayern powder,
 - * 5 parts cement
 - * 15 parts sand or approved grit
 - * 15 parts stone dust.

BLUESTONE PITCHER KERB & CHANNEL IN HERITAGE AREAS

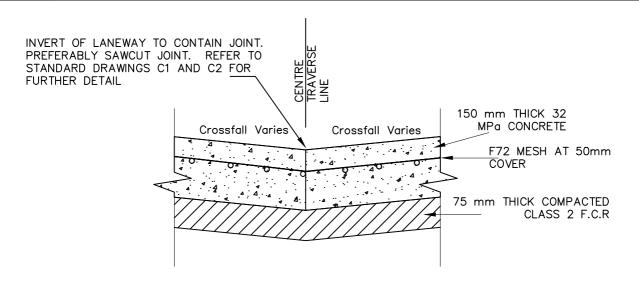


REVISED : I.	VANIKIOTIS	DRAWING No.	Rev.
APPROVED :	T. LAM	SD K2	7
DATE :	DECEMBER 2014		



PATTERN WITH 15 mm WIDE (AVERAGE) GROUTED JOINTS.
2. GROUTING SHALL BE FLUSH WITH

2. GROUTING SHALL BE FLUSH WITH CHARCOAL COLOURED CEMENT MORTAR.

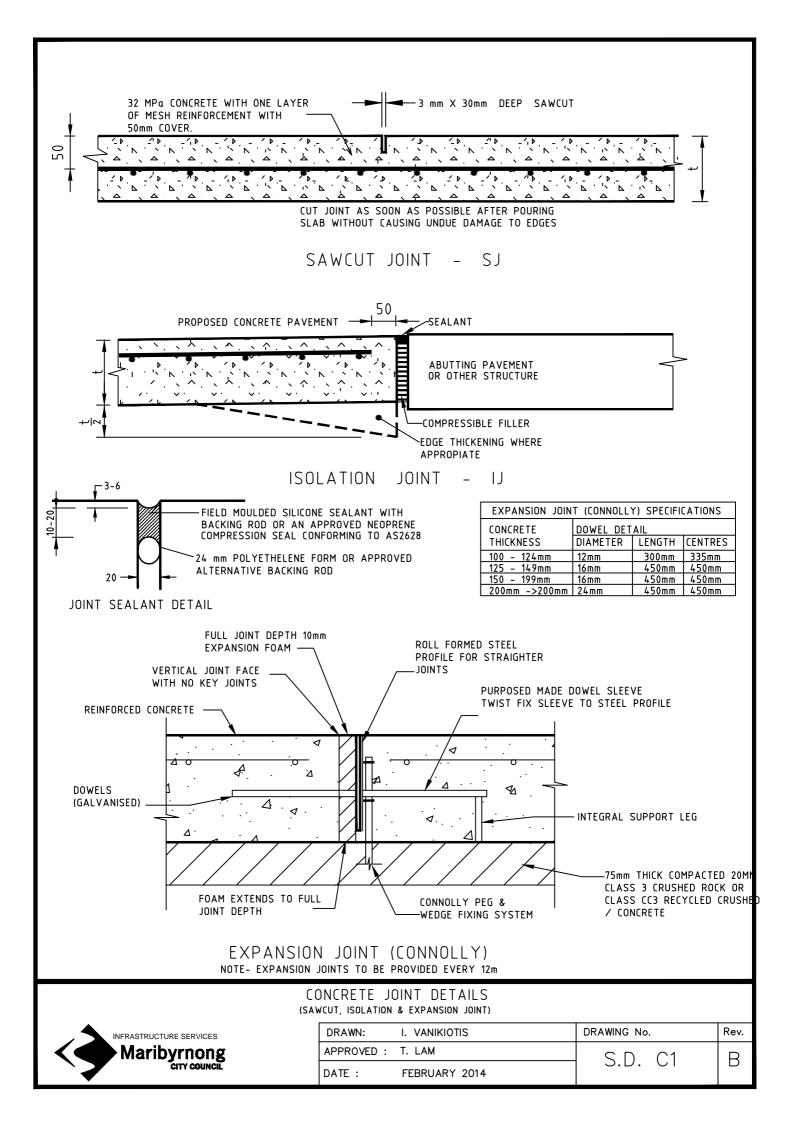


TYPICAL CONCRETE LANEWAY PLAN (NOT TO SCALE)

TYPICAL BLUESTONE LANEWAY DETAIL AND CONCRETE LANEWAY DETAIL



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DATE :	FEBRUARY 2014	J.D. NO	



REINSTATEMENT OF NATURESTRIP:

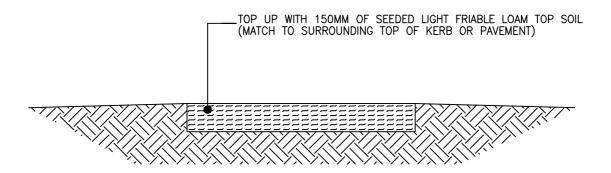
THE CONTRACTOR MUST MAKE ALLOWANCES TO ENSURE THAT ALL NATURESTRIPS ADJACENT TO THE WORK ARE PROPERLY REINSTATED, SEEDED AND ROPED OFF.

THE CONTRACTOR WILL USE TOP SOIL WHICH:

- A) IS LIGHT FRIABLE LOAM CONSISTING OF 3 PARTS SANDY LOAM, 2 PARTS MOUNTAIN SOIL, 1 PART LIGNA PEAT;
- B) IS FREE FROM WEEDS, STONE OR RUBBLE, CLODS OF TOPSOIL AND OTHER EXTRANEOUS MATERIAL.
- C) IS NOT DELIVERED WHILE IN A SATURATED CONDITION. TOPSOIL WILL HAVE THE FOLLOWING CHARACTERISTICS:
 - TEXTURE LIGHT TO MEDIUM. IE. CAPABLE OF HANDLING WHEN MOIST, BUT LACKING IN COHESION SO THAT IT WILL FALL APART EASILY;
 - ACIDITY SLIGHTLY ACID TO NEUTRAL. pH 5.5 TO 6.5; AND
 - STONE CONTENT LESS THAN 5% BY DRY WEIGHT WITH STONE SIZE NOT EXCEEDING 25MM.

DISPOSAL OF SURPLUS MATERIAL:

THE CONTRACTOR MUST DISPOSE OF ALL SURPLUS MATERIAL.



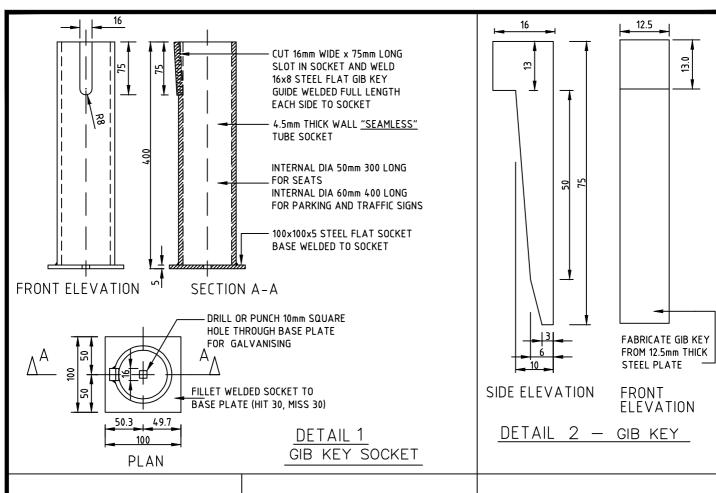
TYPICAL LAWN REINSTATEMENT

SCALE 1: 20

LAWN REINSTATEMENT DETAIL



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APPROVED :	T. LAM	SD 11	
DATE :	MARCH 2014	J.D. LI	



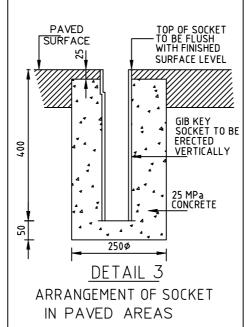
NOTES:

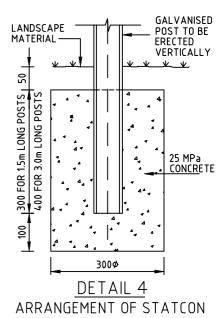
INSTALLATION OF GIB KEY SOCKETS:

- GIB KEY SOCKETS AND POST SHALL BE ERECTED VERTICALLY
- INTERNAL DIAMETER 60mm, 400 LONG GIB KEY SOCKETS SHALL BE USED FOR PARKING AND TRAFFIC SIGNS IN PAVED SURFACE

FABRICATION OF GIB KEY SOCKETS:

- GIB KEY SHALL BE GALVANISED IN ACCORDANCE WITH AS 1650
- AFTER GALVANISING ONE COAT OF POWDER COAT SHALL BE APPLIED. COLOUR CHARCOAL (75 MICRONS)
- ALL SMALL WELDS SHALL BE 4mm CONTINUOUS WITH E41xx WELDING ELECTRODE TO AS1554 PART 1 & 2 AS APPROPRIATE.
- BARE STEEL & WELDED AREAS SHALL BE CLEANED COATED WITH ZINCILATE 880 OR EQUIVALENT
- ALL WORKMANSHIP & MATERIALS SHALL BE IN ACCORDANCE WITH AS 4100 STEEL STRUCTURES
- ALL BUTT WELDS SHALL BE FULL PENETRATION



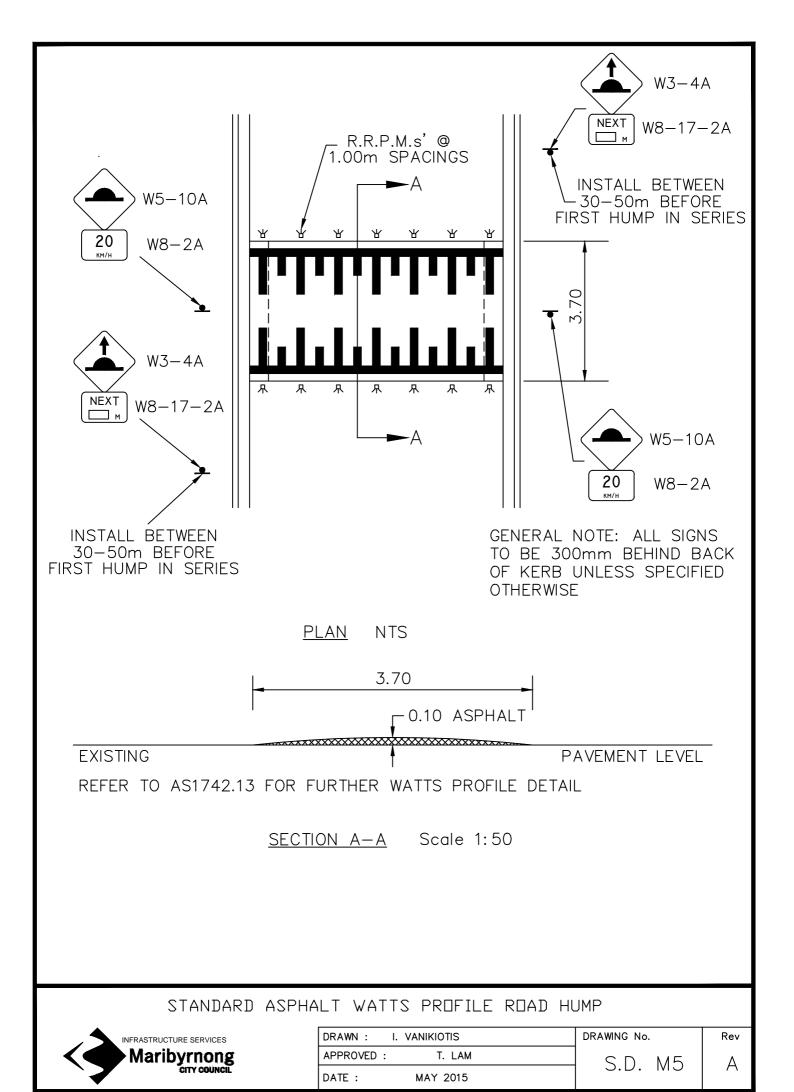


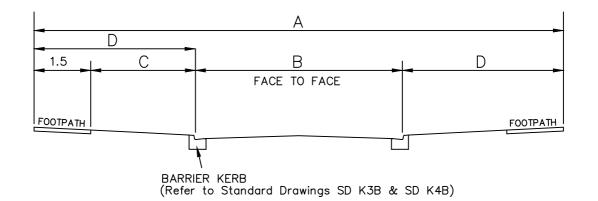
POST IN LANDSCAPED AREA

GIB KEY SOCKET AND POST INSTALLATION/FABRICATION DETAILS.



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TYPICAL CROSS SECTION

(Measurements are in meters)
NOT TO SCALE

ROAD HEIRARCHY	CATEGORY	MAX V.P.D.	A A DESERVE	В	C	D D
		V., .D.	ROAD RESERVE	CARRIAGEWAY	NATURESTRIP	VERGE WIDTH
ACCESS LANE	2	_	6.5	6.5	_	_
ACCESS PLACE	2	300	15.3	7.3	2.5	4.0
ACCESS STREET	3	1000	15.3	7.3	2.5	4.0
COLLECTOR STREET	3	3000	20.6	10.6*	3.5	5.0
TRUNK COLLECTOR	4	3000- 6000	26.6	16.6**	3.5	5.0

(Minimum Width Requirements)

NOTES

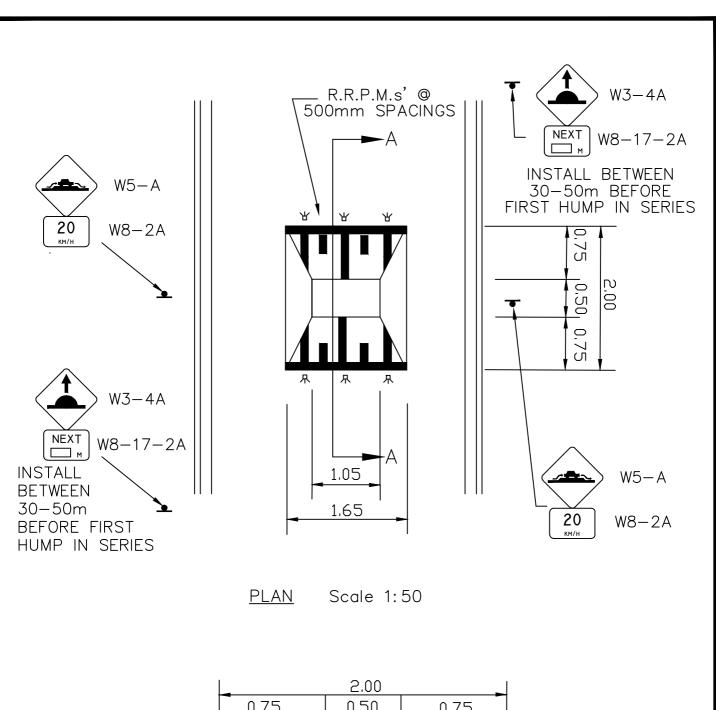
- 1. FOOTPATH REQUIRED ON BOTH SIDES, 1.5m MINIMUM WIDTH
- 2. ROAD RESERVE WIDENING MAY BE REQUIRED FOR THE FOLLOWING :-
 - (i) 2.5m SHARED FOOTPATH ON ONE OR BOTH SIDES.
 - (ii) 1.5m CYCLE LANE MARKED ON THE CARRIAGEWAY.
 - (iii) CENTRAL MEDIAN (2.5m wide) FOR TRUNCK COLLECTOR (CATEGORY 4).
- 3. MINIMUM ROAD WIDTHS ALLOWS FOR UNRESTRICTED PARKING, (EXCEPT FOR ACCESS LANES).
- * ALLOWS FOR A 3.0m wide CLEAR LANE IN EITHER DIRECTION
- ** ALLOWS FOR 2 x 3.0m wide CLEAR LANES IN EITHER DIRECTION

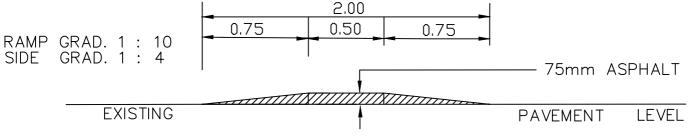
CONSULTANTS ARE TO ARRANGE A PRELIMINARY MEETING WITH INFRASTRUCTURE SERVICES TO DISCUSS THE PROPOSAL AND GAIN AN AGREEMENT IN PRINCIPLE TO THE INFRASTRUCTURE REQUIRED, PRIOR TO SUBMISSION OF DETAILED SUBDIVISIONAL ROAD DESIGN DRAWINGS.

MINIMUM CROSS SECTIONS FOR SUBDIVISIONAL ROADS



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APPROVED :	I.HIRTH	SD M6	٨
DATE :	MARCH 2006	J.D. MO	A



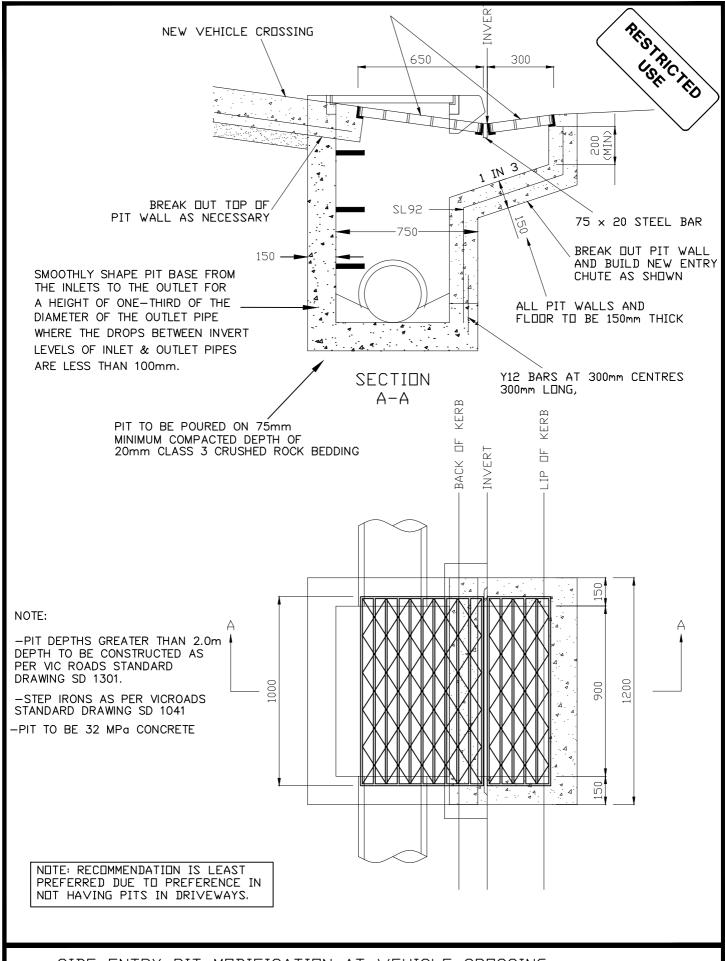


 $\underline{\mathsf{SECTION}\ \mathsf{A-A}}$ Scale 1:25

STANDARD ASPHALT ROAD CUSHION



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DATE: FEBRUARY 2014	J.D. W/	

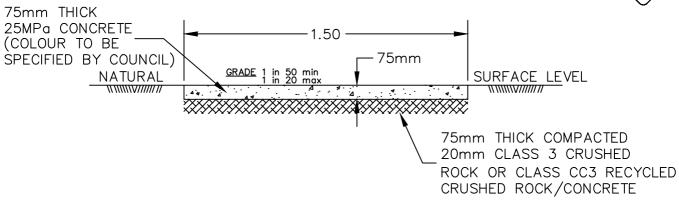


SIDE ENTRY PIT MODIFICATION AT VEHICLE CROSSING



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APPROVED :	T.LAM		SD RII 1	_
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UNREINFORCED CONCRETE FOOTPATH TO BE USED FOR MAINTENANCE PURPOSES ONLY

NOTES

- 1. TOOL JOINT EVERY 1.5m WITH A 20mm DEEP STRAIGHT CUT ACROSS PATH
- 2. EXPANSION JOINT-EVERY 12m TO CONSIST OF 4xR12 PLAIN STEEL BARS (BOND BREAKER ON ONE SIDE OF JOINT). THIS JOINT WILL INCLUDE BITUMEN IMPREGNATED FIBRE OR APPROVED EQUIVALENT.

UNREINFORCED CONCRETE FOOTPATH



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APPROVED :	T.LAM		SD	SD BII 2	_
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