

Local Government

Infrastructure Design Association

STANDARD DRAWINGS APPENDIX 'G' - IDM VERSION 5.3



The Infrastructure Design Manual Standard Drawings are prepared and maintained by the Local Government Infrastructure Design Association

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STANDARD DRAWING COVER SHEET Infrastructure Design Manual Standard Drawings A copy of the Infrastructure Design Manual can be viewed on the Design Manual website www.designmanual.com.au Local Government Infrastructure Design Association

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SD635	PREFERRED SERVICE LOCATIONS FOR COLLECTOR ROAD LEVEL 1	04/04/2016
SD640	PREFERRED SERVICE LOCATIONS FOR COLLECTOR ROAD LEVEL 2	04/04/2016

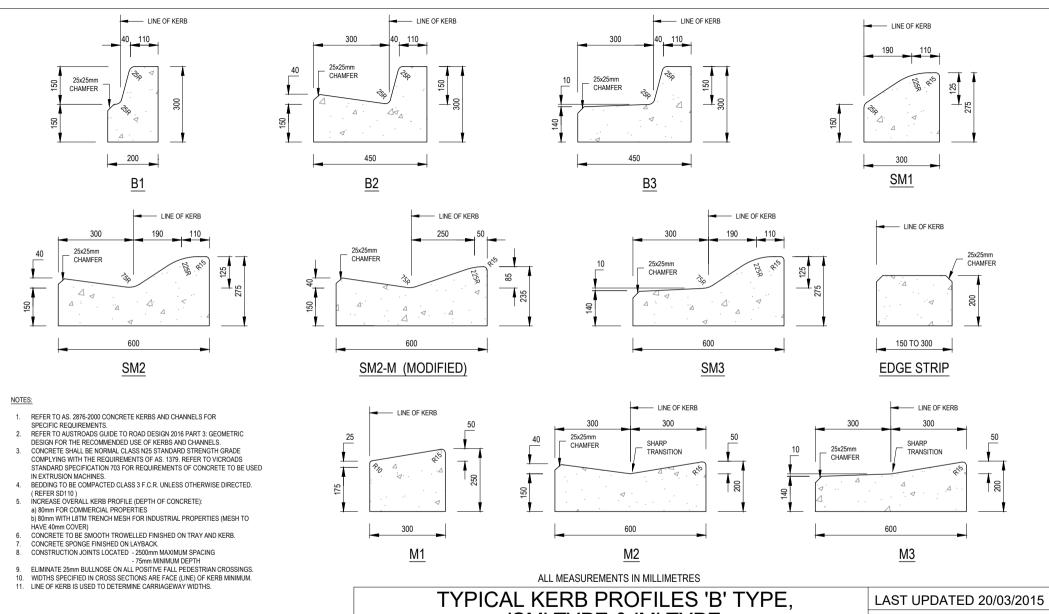
STANDARD DRAWING SHEET INDEX

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SD001

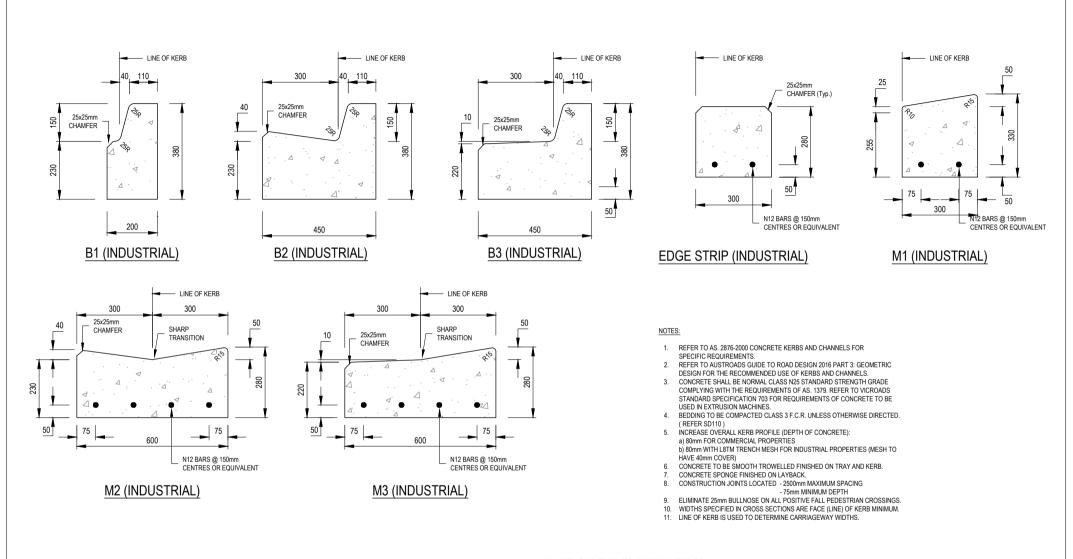


'SM' TYPE & 'M' TYPE

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ALL MEASUREMENTS IN MILLIMETRES

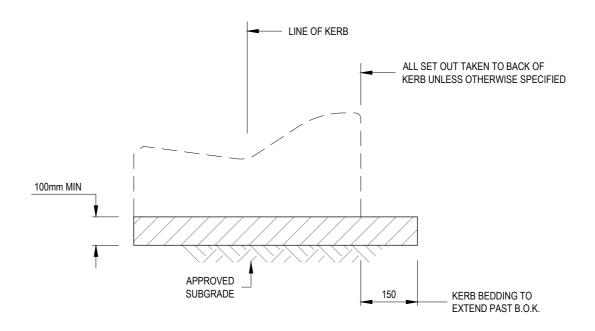
TYPICAL INDUSTRIAL KERB PROFILES 'B' TYPE & 'M' TYPE

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SD 105



TYPICAL KERB BEDDING

NOTES:

 BEDDING TO BE COMPACTED CLASS 3 F.C.R. 20mm BEDDING TO 97% MMD OR EXTENSION OF ROAD PAVEMENT LAYERS, WHICHEVER IS GREATER. UNLESS OTHERWISE DIRECTED.

ALL MEASUREMENTS IN MILLIMETRES

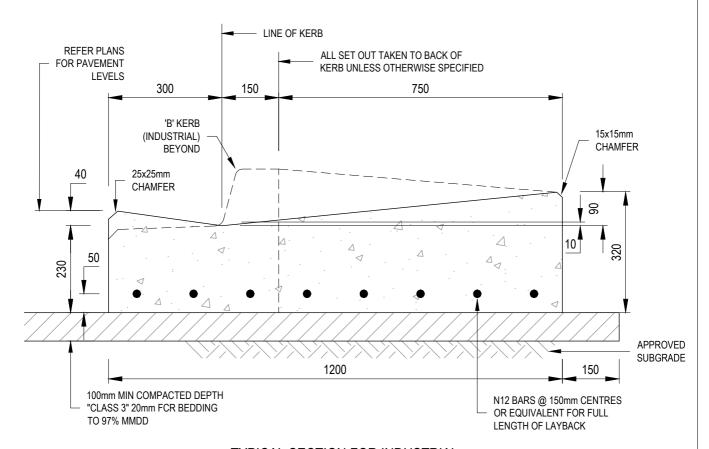
TYPICAL KERB BEDDING DETAIL

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SD 110



TYPICAL SECTION FOR INDUSTRIAL

NOTES:

- REFER TO AS. 2876-2000 CONCRETE KERBS AND CHANNELS FOR SPECIFIC REQUIREMENTS.
- REFER TO AUSTROADS GUIDE TO ROAD DESIGN 2016 PART 3: GEOMETRIC DESIGN FOR THE RECOMMENDED USE OF KERBS AND CHANNELS.
- CONCRETE SHALL BE NORMAL CLASS 32MPa STANDARD STRENGTH GRADE COMPLYING WITH THE REQUIREMENTS OF AS. 1379. REFER TO VICROADS STANDARD SPECIFICATION 703 FOR REQUIREMENTS OF CONCRETE TO BE USED IN EXTRUSION MACHINES.
- BEDDING TO BE COMPACTED CLASS 3 F.C.R. UNLESS OTHERWISE DIRECTED. (REFER SD110)
- 5. CONCRETE TO BE SMOOTH TROWELLED FINISHED ON TRAY AND KERB.
- 6. CONCRETE SPONGE FINISHED ON LAYBACK.
- 7. CONSTRUCTION JOINTS LOCATED 2500mm MAXIMUM SPACING - 75mm MINIMUM DEPTH
- 8. ELIMINATE 25mm BULLNOSE ON ALL POSITIVE FALL PEDESTRIAN CROSSINGS.
- 9. WIDTHS SPECIFIED IN CROSS SECTIONS ARE FACE (LINE) OF KERB MINIMUM.
- 0. LINE OF KERB IS USED TO DETERMINE CARRIAGEWAY WIDTHS.

ALL MEASUREMENTS IN MILLIMETRES

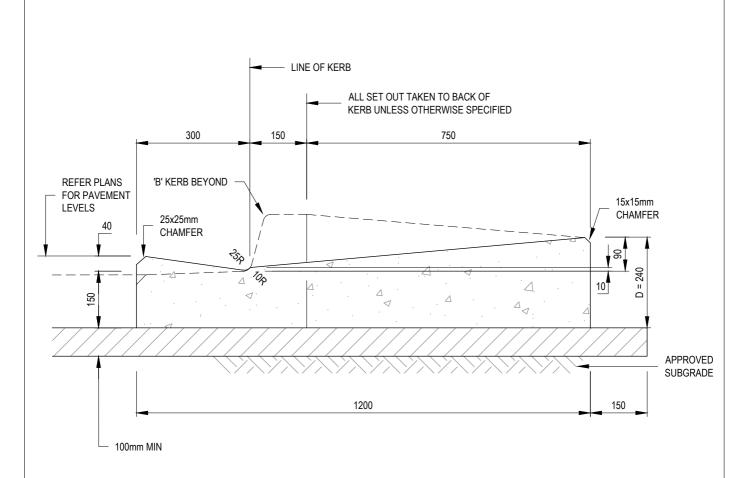
TYPICAL INDUSTRIAL KERB LAYBACK

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SD 115



TYPICAL SECTION FOR RESIDENTIAL

NOTES:

- 1. REFER TO AS. 2876-2000 CONCRETE KERBS AND CHANNELS FOR SPECIFIC REQUIREMENTS
- BEDDING TO BE COMPACTED CLASS 3 F.C.R. 20mm BEDDING TO 97% MMD OR EXTENSION OF ROAD PAVEMENT LAYERS, WHICH EVER IS GREATER. UNLESS OTHERWISE DIRECTED
- INCREASE DEPTH OF CONCRETE 80mm FOR COMMERCIAL PROPERTIES ('D' + 80mm)
 CONCRETE TO BE SMOOTH TROWELLED FINISHED ON TRAY AND KERB
- 4. CONCRETE SPONGE FINISHED ON LAYBACK
- 5. CONSTRUCTION JOINTS LOCATED 2500mm MAXIMUM SPACING - 75mm MINIMUM DEPTH
- 6. ELIMINATE 25mm BULLNOSE ON ALL POSITIVE FALL PEDESTRIAN CROSSINGS
- 7. WIDTHS SPECIFIED IN CROSS SECTIONS ARE FACE (LINE) OF KERB.
- 8. FOR TYPICAL INDUSTRIAL KERB LAYBACK SEE DRAWING SD115.

ALL MEASUREMENTS IN MILLIMETRES

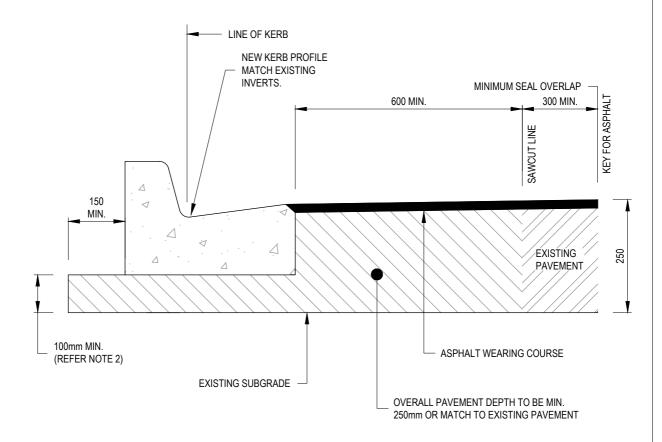
LAYBACK FOR 'B2' & 'B3' KERBING

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SD 120



TYPICAL SECTION

NOTES:

- REFER TO CONCRETE AS. 2876-2000 CONCRETE KERBS AND CHANNELS FOR SPECIFIC REQUIREMENTS.
- 100mm MINIMUM COMPACTED DEPTH OF CLASS 3, 20mm F.C.R. BEDDING TO 97% MMDD OR EXTENSION OF ROAD PAVEMENT LAYERS, WHICH EVER IS GREATER. UNLESS OTHERWISE DIRECTED.
- WEARING COURSE ASPHALT TO BE MINIMUM 30mm COMPACTED DEPTH OF TYPE N, 10mm NOMINAL SIZE (U.N.O.)
- 4. CONSTRUCTION JOINTS LOCATED 2500mm MAXIMUM SPACING 75mm MINIMUM DEPTH
- 5. WIDTHS SPECIFIED IN CROSS SECTIONS ARE FACE (LINE) OF KERB.
- CONCRETE SHALL BE NORMAL CLASS N25 STANDARD STRENGTH GRADE COMPLYING WITH THE REQUIREMENTS OF AS. 1379. REFER TO VICROADS STANDARD SPECIFICATION 703 FOR REQUIREMENTS OF CONCRETE TO BE USED IN EXTRUSION MACHINES.
- 7. CONCRETE TO BE SMOOTH TROWELLED FINISHED ON TRAY AND KERB.

ALL MEASUREMENTS IN MILLIMETRES

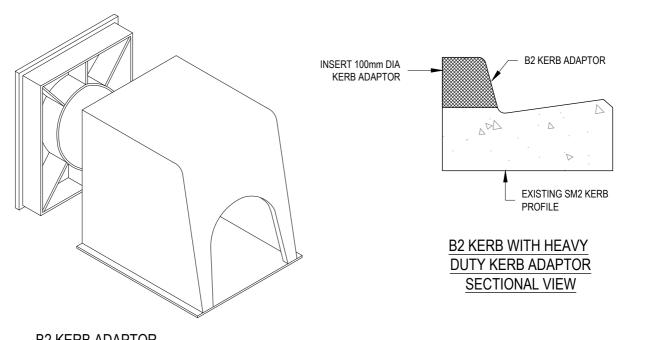
KERB & CHANNEL INSTALLATION ABUTTING EXISTING PAVEMENT

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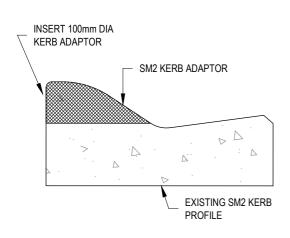
SD 130



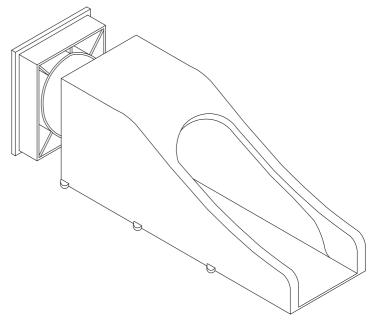
B2 KERB ADAPTOR

NOTES:

ALL KERB ADAPTORS ARE TO BE AN APPROVED PROPRIETARY PRODUCT CONSTRUCTED FROM EITHER HEAVY DUTY UPVC OR HOT DIPPED GALVANIZED MILD STEEL. KERB IS TO BE NEATLY SAW CUT & KERB ADAPTOR EPOXIED INTO POSITION.



SM2 KERB WITH HEAVY
DUTY KERB ADAPTOR
SECTIONAL VIEW



SM2 KERB ADAPTOR

ALL MEASUREMENTS IN MILLIMETRES

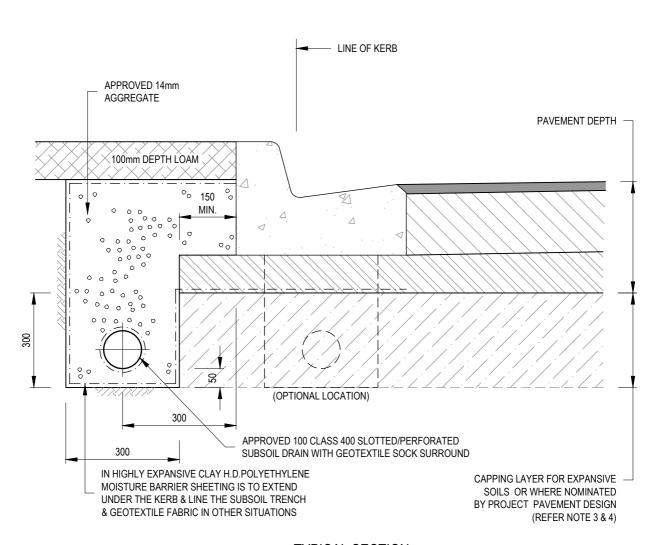
HEAVY DUTY KERB ADAPTORS FOR 'B2' AND 'SM2' KERBS

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SD 140



TYPICAL SECTION

NOTES:

- 1. THE DRAINS SHALL BE LAID ON A GRADE PARALLEL TO THE FINISHED SURFACE.
- 2. FOR FLUSHOUT RISER DETAILS REFER TO STANDARD DRAWINGS SD525 & SD530.
- 3. WHERE THE SUBGRADE IS CLASSIFIED AS BEING EXPANSIVE, SUBSURFACE PAVEMENT DRAINS SHALL BE DESIGNED TO BE CONTAINED WHOLLY WITHIN THE CAPPING LAYER. IN ADDITION, NO PART OF THE SUBSURFACE DRAINAGE TRENCH SHALL BE LOCATED WITHIN 150 MM OF THE UNDERLYING SUBGRADE. IF NECESSARY, THE CAPPING LAYER MAY HAVE TO BE THICKENED TO SATISFY THIS REQUIREMENT.
- 4. WHERE REQUIRED BY PAVEMENT DESIGN, CAPPING LAYER OF LOW PERMEABILITY PLACED IMMEDIATELY BELOW THE PAVEMENT SUB-BASE TO MINIMISE CHANGES IN THE MOISTURE CONTENT IN THE MATERIAL BELOW THE CAPPING LAYER (REFER S204 VICROADS SPECIFICATION)

ALL MEASUREMENTS IN MILLIMETRES

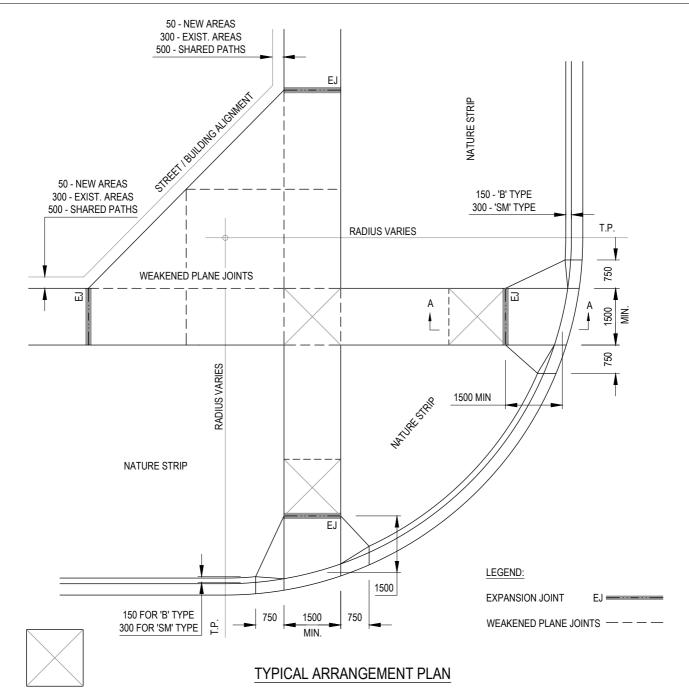
SUBSOIL DRAINAGE

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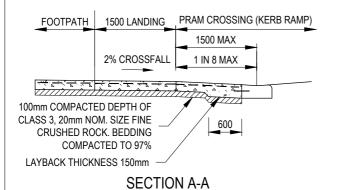
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SD 145



LANDING ZONE TO BE A MIN. 1.5m IN THE DIRECTION OF TRAVEL AT 2% MAX GRADE.



NOT TO SCALE

NOTES:

- LOCATION OF CROSSINGS TO BE CASE BY CASE & TO BE APPROVED BY COUNCIL.
- 2. CROSSING GENERALLY TO BE LOCATED AT TANGENT POINTS.
- 3. CONCRETE TO BE SMOOTH TROWELLED FINISH ON TRAY.
- 4. CONCRETE TO BE FINE SOFT HAIR BROOM FINISH ON LAYBACK.
- 5. MINIMUM CONCRETE STRENGTH TO BE 25 MPA.
- BEDDING TO BE COMPACTED CLASS 3 (OR BETTER) F.C.R. UNLESS OTHERWISE DIRECTED
- IF SPLAY IS NOT REQUIRED FOOTPATH IS TO CONTINUE THROUGH TO LAYBACKS.
- TGSI'S (TILES), WHERE REQUIRED, ARE TO BE TO BE INSTALLED TO AS1428.4
- WHERE ANY NEW CONCRETE ABUTS EXISTING CONCRETE INSTALL R16Ø DOWELS IN 125mm THICK CONCRETE OR R10Ø DOWELS IN 75mm THICK CONCRETE DOWELS @ MAX 600 CTS
- 10. REFER SD 205, SD270 FOR FURTHER FOOTPATH DETAILS

ALL MEASUREMENTS IN MILLIMETRES

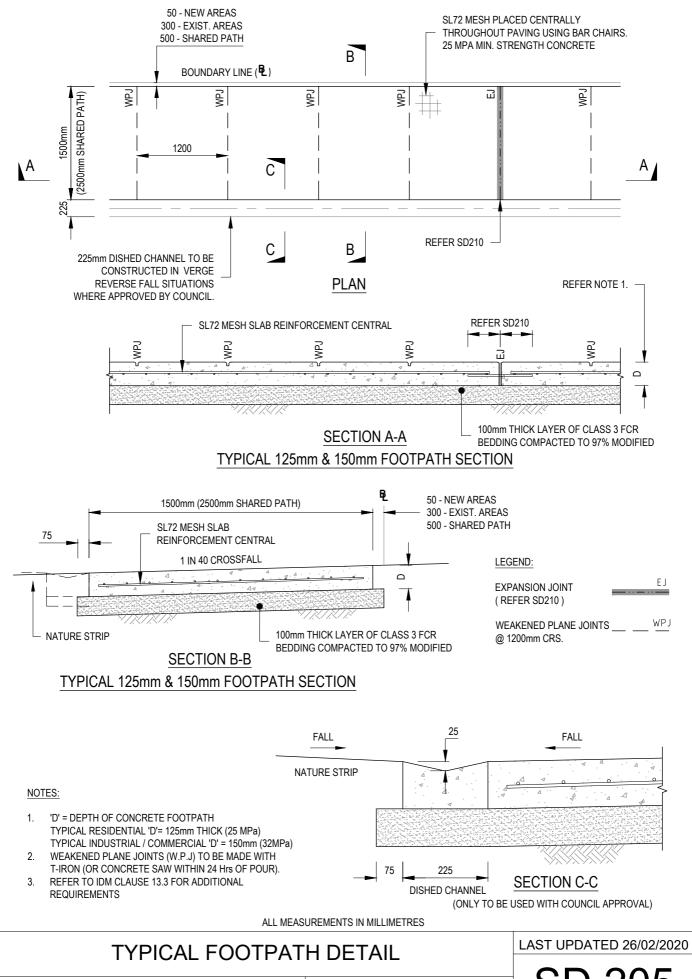
PEDESTRIAN CROSSING

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SD 200



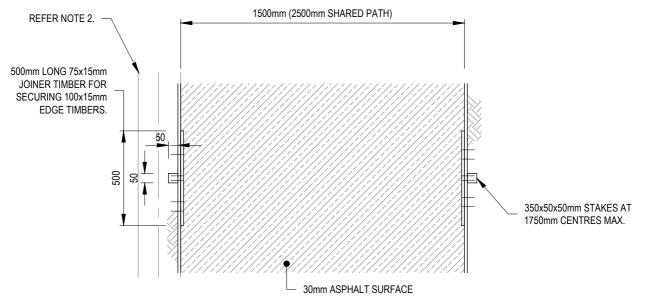
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NOT TO SCALE

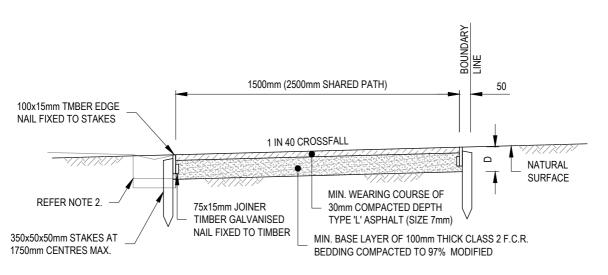
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TYPICAL 130mm ASPHALT PATH WITH TIMBER EDGE PLAN



TYPICAL 130mm ASPHALT PATH WITH TIMBER EDGE SECTION

- 'D' = DEPTH OF ASPHALT FOOTPATH
 TYPICAL ASPHALT FOOTPATH DEPTH 'D'= 130mm
 VARIED 'D' MAY OCCUR DEPENDANT ON APPROVED PAVEMENT MAKE UP
- IF SURFACE DRAINAGE REDIRECTION IS NECESSARY DUE TO REVERSE FALL OF ADJACENT AREAS REPLACE TIMBER EDGE WITH CONCRETE DISHED CHANNEL AS PER SD205 'SECTION C-C' (COUNCIL APPROVAL REQUIRED)

ALL MEASUREMENTS IN MILLIMETRES

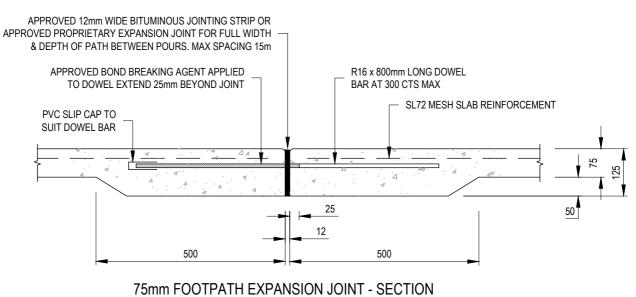
TYPICAL HOT MIX ASPHALT FOOTPATH

Infrastructure Design Manual Standard Drawings

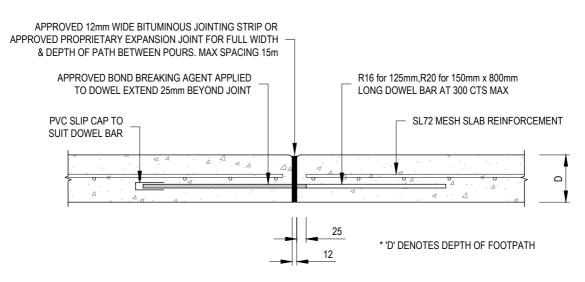
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SD 206



(EXISTING DEVELOPED AREAS ONLY)



125mm & 150mm FOOTPATH EXPANSION JOINT - SECTION

NOTES:

- 'D' = DEPTH OF CONCRETE FOOTPATH
 TYPICAL RESIDENTIAL 'D'= 125mm THICK (25 MPa)
 TYPICAL INDUSTRIAL / COMMERCIAL 'D' = 150mm (32MPa)
- APPROVED PROPRIETARY JOINTS CAN BE USED WITH COUNCIL APPROVAL.

ALL MEASUREMENTS IN MILLIMETRES

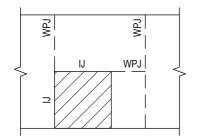
TYPICAL FOOTPATH JOINTS

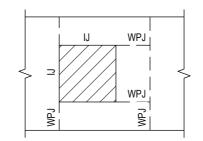
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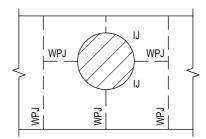
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SD 210







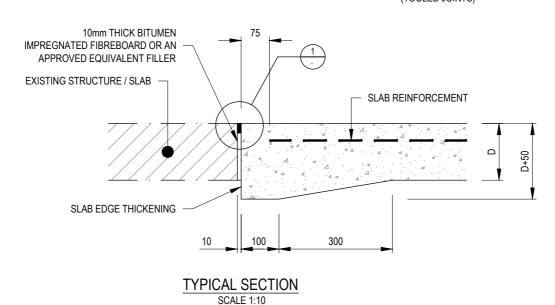
PIT / ACCESS HOLE AT EDGE (PLAN)

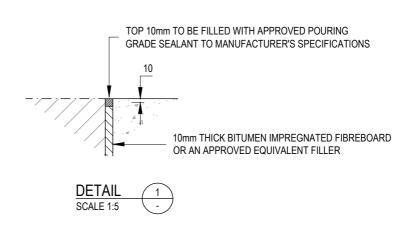
PIT / ACCESS HOLE NOT AT EDGE (PLAN)

LEGEND:

ISOLATION JOINT

WEAKENED PLANE JOINT _____ WP
(TOOLED JOINTS)





NOTES:

1. 'D' DENOTES DEPTH OF CONCRETE PAVEMENT

ALL MEASUREMENTS IN MILLIMETRES

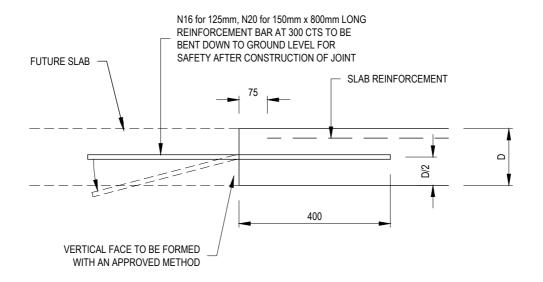
REINFORCED CONCRETE PAVEMENT ISOLATION JOINT

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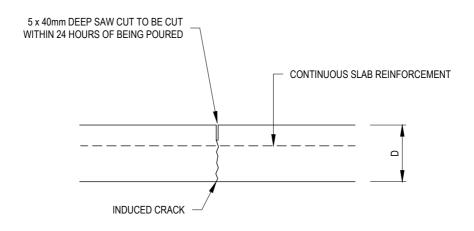


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SD 220



TYPICAL FUTURE CONSTRUCTION JOINT



TYPICAL SAWN WEAKENED PLANE JOINT

* 'D' DENOTES DEPTH OF FOOTPATH

ALL MEASUREMENTS IN MILLIMETRES

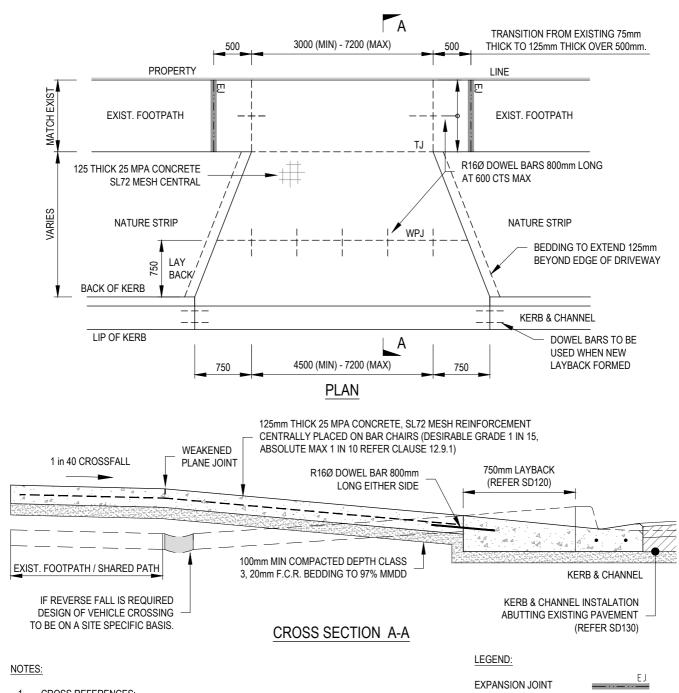
REINFORCED CONCRETE PAVEMENT TYPICAL JOINT DETAILS

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SD 225



CROSS REFERENCES: INDUSTRIAL CROSSINGS - SD236 / SD250 RURAL CROSSINGS - SD255 / SD260 IDM - SECTION 12.9.1. AND 12.9.2.

WEAKENED PLANE JOINTS

- THIS DRAWING DETAILS DIMENSIONS FOR STANDARD RESIDENTIAL CROSSINGS ONLY.
- CROSSING WIDTHS EXCEEDING THE MAXIMUM ALLOWABLE WILL REQUIRE APPLICATION TO COUNCIL FOR SPECIAL CONSIDERATION.
- JOINTS AND DOWEL BARS ARE REQUIRED ON EITHER SIDE OF THE CROSSING AT THE INTERFACE WITH THE FOOTPATH. PROVISION SHALL BE MADE IN EXISTING CONCRETE SECTIONS BY DRILLING HOLES TO A MINIMUM DEPTH OF 150mm AND INSERTING R16 DOWEL BARS
- AN APPROVED JOINT FILLER SHALL BE PLACED ON EITHER SIDE OF THE CROSSING AGAINST FOOTPATH SLABS. DOWEL BARS ARE TO HAVE AN APPROVED BOND BREAKER APPLIED TO THE END OF THE BAR INSERTED INTO THE EXISTING CONCRETE FOOTPATH SECTIONS REFER SD220.
- 6. ADDITIONAL WEAKENED PLANE JOINTS REQUIRED IF DISTANCE FROM BACK OF KERB TO FOOTPATH IS GREATER THAN 3000 AND SHALL BE PLACED AT THE MIDPOINT OF THE DISTANCE.
- THE MAXIMUM NUMBER OF CROSSINGS, WHERE ANY CROSSING EXCEEDS 3.5 METRES WIDTH, SHALL BE ONE (1) CROSSING WITH THE MAXIMUM WIDTH OF THAT CROSSING TO BE 7.2 METRES. CROSSINGS TO ADJACENT PROPERTIES SHALL BE EITHER FULLY COMBINED, AND OF MAXIMUM WIDTH OF 7.2 METRES, OR ELSE HAVE A MINIMUM SEPARATION AS APPROVED BY COUNCIL.
- FOOTPATHS OF 75mm THICKNESS ARE ACCEPTABLE ONLY WHERE THE LOTS ARE DEVELOPED ALREADY AND THE RISK OF SITE CONSTRUCTION DAMAGE IS NEGLIGIBLE. WHERE GREENFIELD SITES AND FUTURE HOUSING IS STILL TO BE DONE, THEN THE DEPTH OF THE FOOTPATH SHALL BE 125mm THROUGHOUT.

ALL MEASUREMENTS IN MILLIMETRES

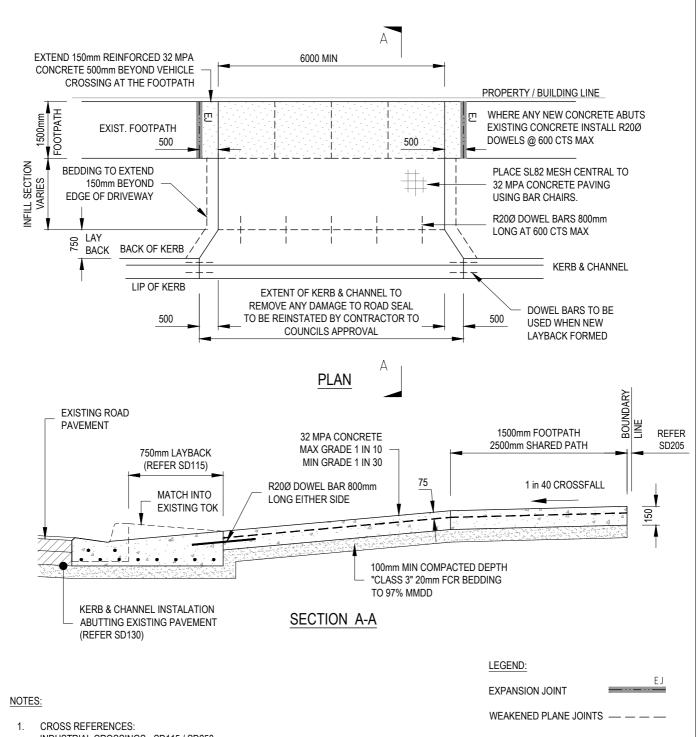
RETROFIT RESIDENTIAL VEHICLE CROSSING DETAIL

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LAST UPDATED 26/02/2020

SD 235

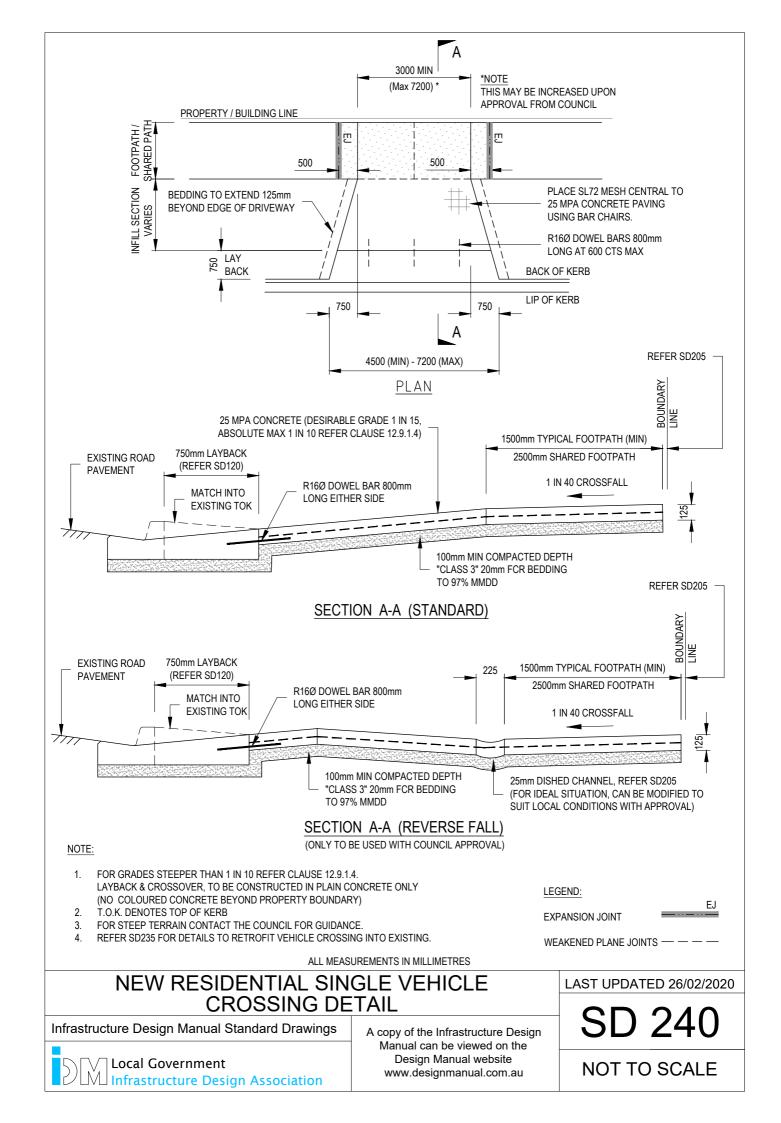


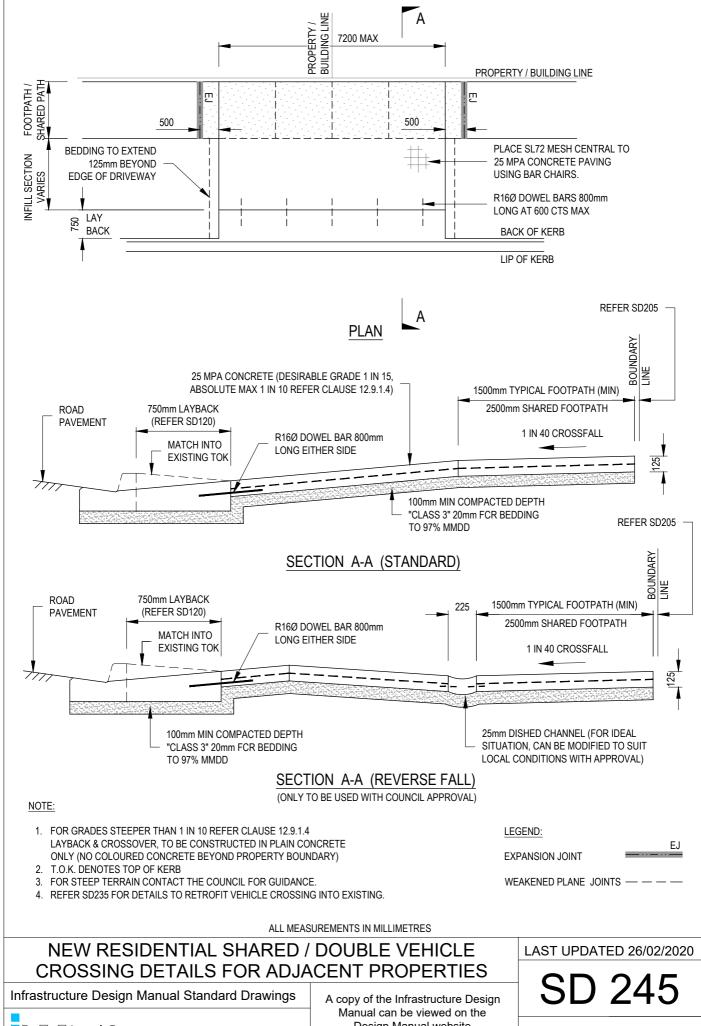
 CROSS REFERENCES: INDUSTRIAL CROSSINGS - SD115 / SD250 RURAL CROSSINGS - SD255 / SD260 IDM - SECTION 12.9.1. AND 12.9.2.

- 2. THIS DRAWING DETAILS DIMENSIONS FOR STANDARD RESIDENTIAL CROSSINGS ONLY.
- 3. CROSSING WIDTHS EXCEEDING THE MAXIMUM ALLOWABLE WILL REQUIRE APPLICATION TO COUNCIL FOR SPECIAL CONSIDERATION.
- 4. JOINTS AND DOWEL BARS ARE REQUIRED ON EITHER SIDE OF THE CROSSING AT THE INTERFACE WITH THE FOOTPATH. PROVISION SHALL BE MADE IN EXISTING CONCRETE SECTIONS BY DRILLING HOLES TO A MINIMUM DEPTH OF 150mm AND INSERTING R16 DOWEL BARS.
- 5. AN APPROVED JOINT FILLER SHALL BE PLACED ON EITHER SIDE OF THE CROSSING AGAINST FOOTPATH SLABS. DOWEL BARS ARE TO HAVE AN APPROVED BOND BREAKER APPLIED TO THE END OF THE BAR INSERTED INTO THE EXISTING CONCRETE FOOTPATH SECTIONS REFER SD220.
- ADDITIONAL WEAKENED PLANE JOINTS REQUIRED IF DISTANCE FROM BACK OF KERB TO FOOTPATH IS GREATER THAN 3000 AND SHALL BE PLACED
 AT THE MIDPOINT OF THE DISTANCE.
- 7. FOOTPATHS AFFECTED BY NEW CROSSING TO BE REPLACED WITH NEW 150mm THICK (MIN.) REINFORCED 32 MPA CONCRETE AS STATED ON DETAIL.

ALL MEASUREMENTS IN MILLIMETRES

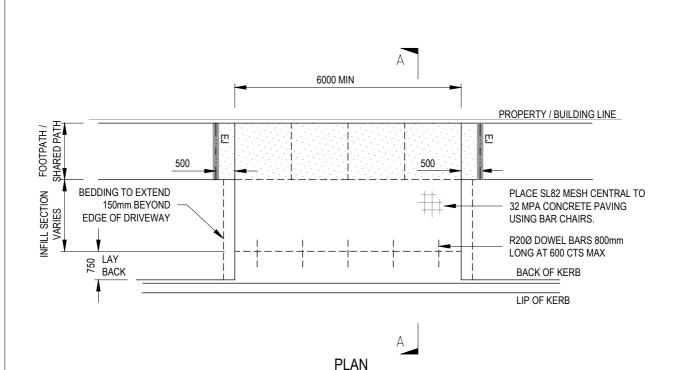
RETROFIT INDUSTRIAL VEHICLE CROSSING DETAIL Infrastructure Design Manual Standard Drawings A copy of the Infrastructure Design Manual can be viewed on the Design Manual website www.designmanual.com.au Local Government Infrastructure Design Association Local Government Www.designmanual.com.au Local Government Www.designmanual.com.au Local Government Www.designmanual.com.au

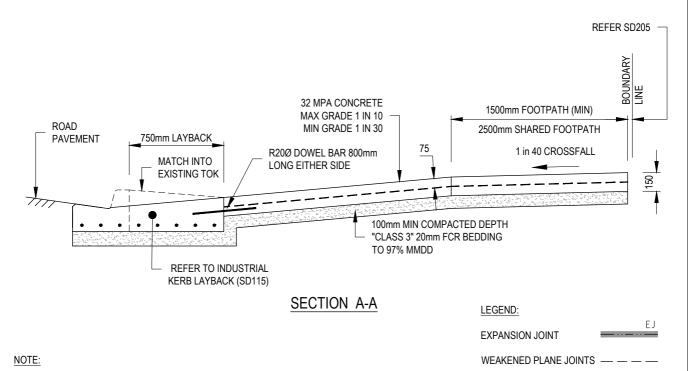




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1. T.O.K. DENOTES TOP OF KERB

- WHERE THERE ARE EXPANSIVE SOILS AN ADDITIONAL LAYER OF REINFORCEMENT MAY BE REQUIRED AT 60mm COVER FROM THE BOTTOM OF THE SLAB.
- 3. FOR STEEP TERRAIN CONTACT THE COUNCIL FOR GUIDANCE.
- 4. FOR GRADES STEEPER THAN 1 IN 10 REFER TO CLAUSE 12.9.1.4.
- 5. REFER SD236 FOR DETAILS TO RETROFIT INDUSTRIAL VEHICLE CROSSING INTO EXISTING.

ALL MEASUREMENTS IN MILLIMETRES

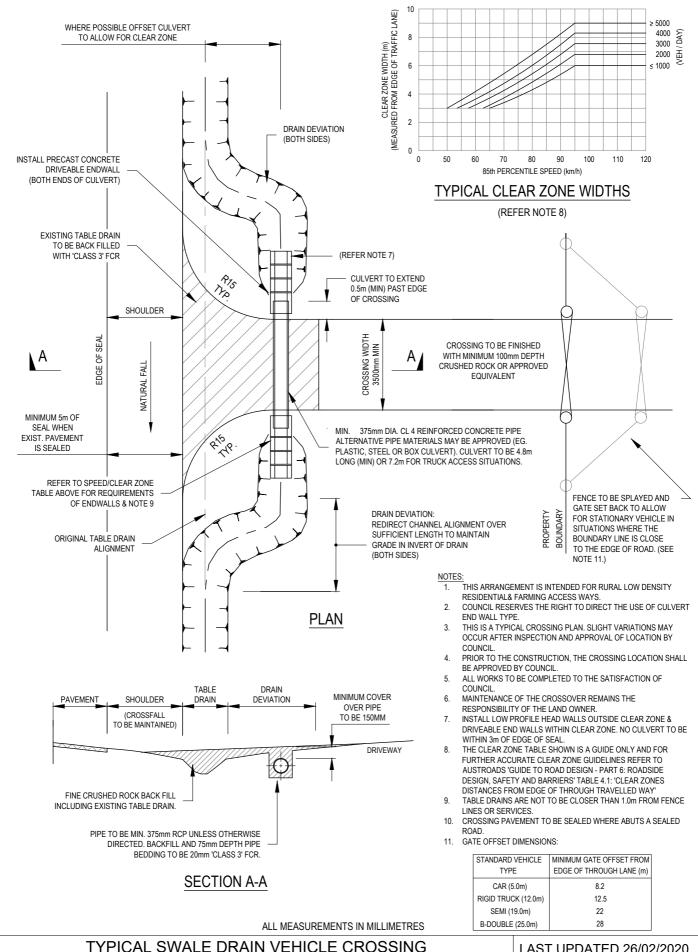
NEW INDUSTRIAL VEHICLE CROSSING DETAIL

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SD 250

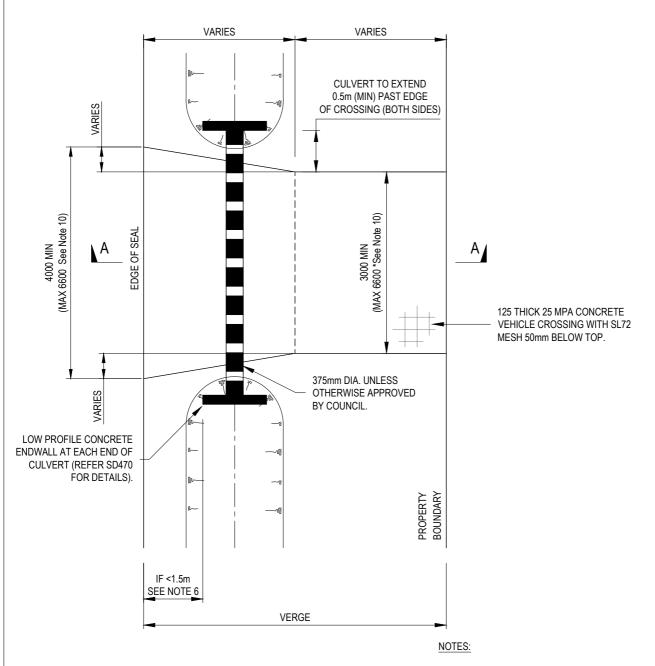


TYPICAL SWALE DRAIN VEHICLE CROSSING (RURAL ENTRANCE)

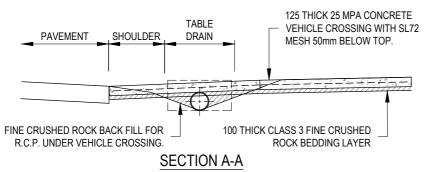
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PLAN



ALL MEASUREMENTS IN MILLIMETRES

- COUNCIL RESERVES THE RIGHT TO DIRECT THE USE OF CULVERT END WALL TYPE.
 - THIS IS A TYPICAL CROSSING PLAN. SLIGHT VARIATIONS MAY OCCUR AFTER INSPECTION AND APPROVAL OF LOCATION BY COUNCIL.
- 3. PRIOR TO THE CONSTRUCTION, THE CROSSING LOCATION SHALL BE APPROVED BY COUNCIL.
- 4. ALL WORKS TO BE COMPLETED TO THE SATISFACTION OF COUNCIL.
- MAINTENANCE OF THE CROSSOVER REMAINS THE RESPONSIBILITY OF THE LAND OWNER.
- DRIVEABLE ENDWALLS TO BE USED WITHIN 1.5m OF THE EDGE OF SEAL OR IF DESIGN SPEED IS GREATER THAN 60KM/H
- 7. REFER SD255 FOR ADDITIONAL CLEAR ZONE DETAILS
- 8. TABLE DRAINS ARE NOT TO BE CLOSER THAN 1.0m FROM FENCE LINES OR SERVICES.
- CULVERT TO BE LOCATED AT LEAST 600mm FROM EDGE OF SEAL
- 10. MAXIMUM DRIVEWAY WIDTH MAYBE INCREASED UPON COUNCIL APPROVAL

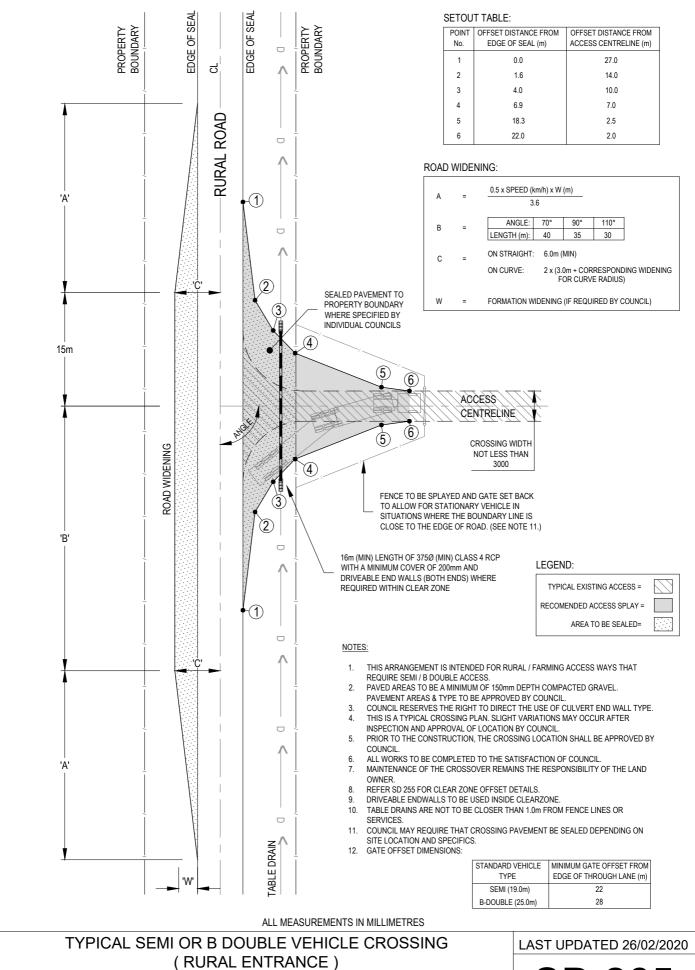
TYPICAL SWALE DRAIN VEHICLE CROSSING (FRINGE URBAN OR RURAL RESIDENTIAL ENTRANCE)

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SD 260



(NOICE ENTITIONE)

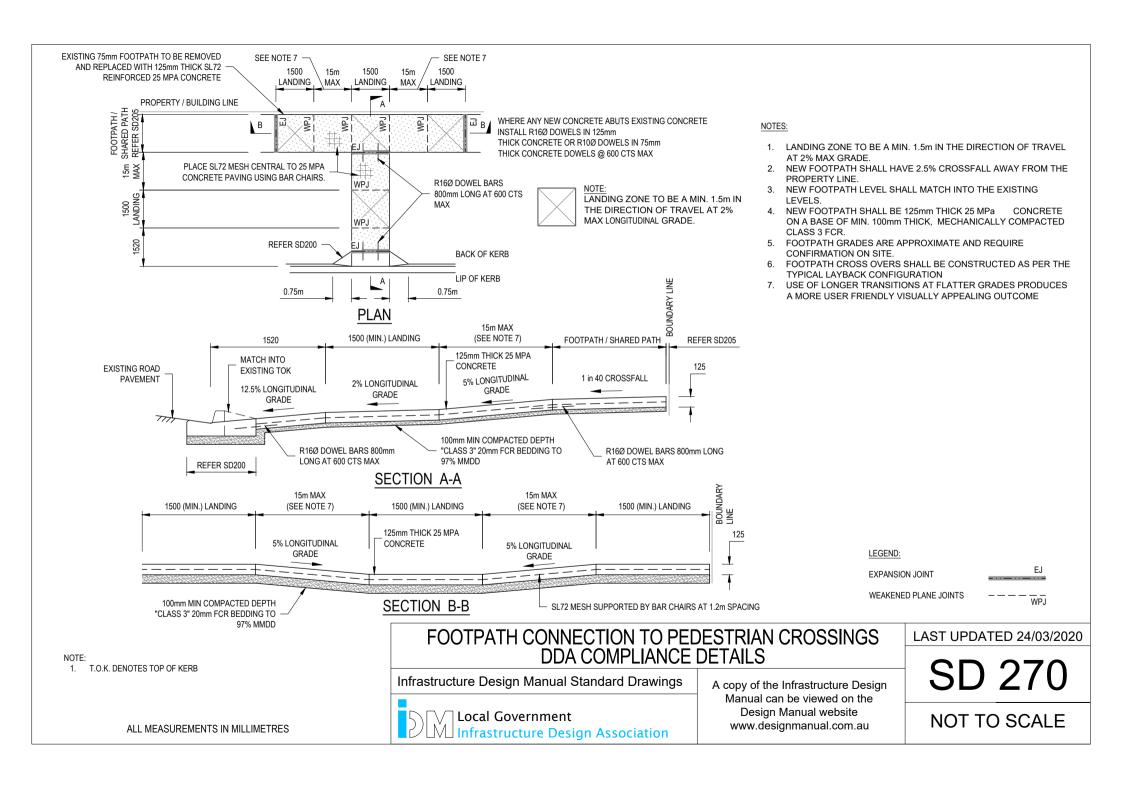
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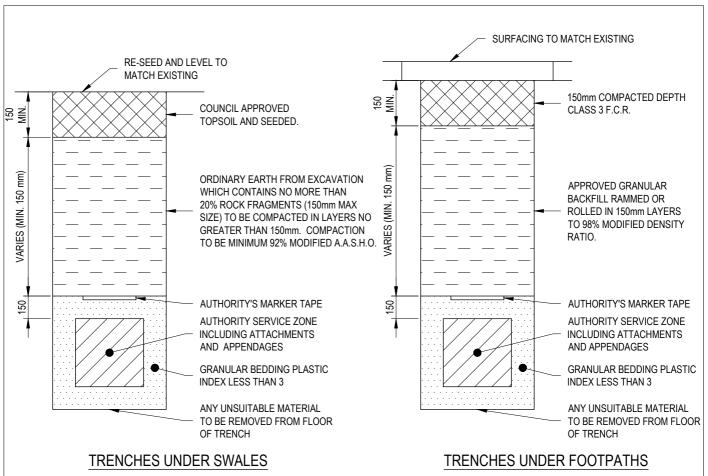
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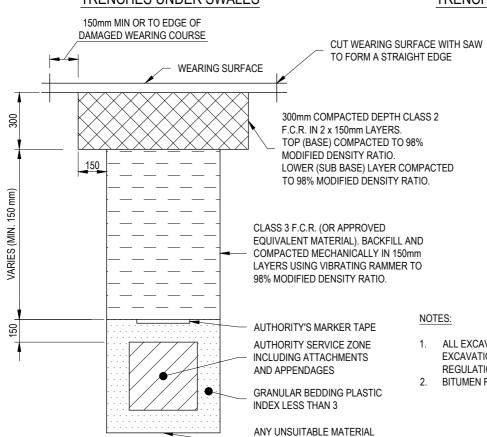
Local Government

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- ALL EXCAVATIONS ARE TO COMPLY WITH THE EXCAVATION CODE OF PRACTICE 2018-05, O.H.&S. REGULATIONS 2017 & O.H.&S. ACT 2004.
- BITUMEN ROAD SURFACE SHALL BE CUT WITH A SAW.

TRENCHES UNDER ROADS ALL MEASUREMENTS IN MILLIMETRES TRENCHING BACKFILL (TRENCHES WITHIN 1m OF COUNCIL ASSETS)

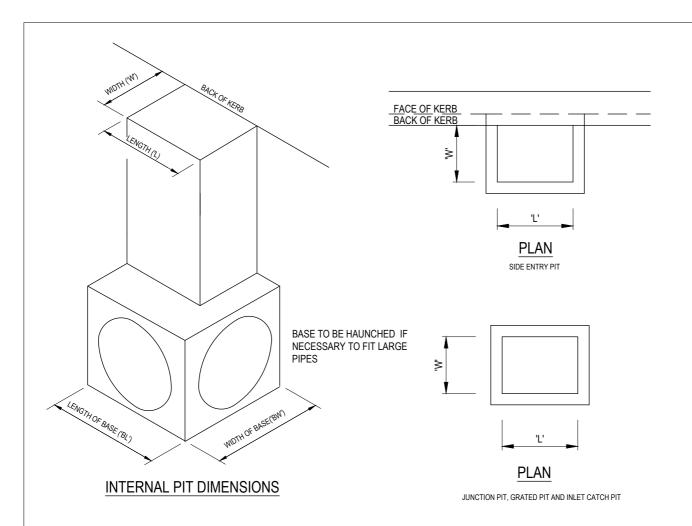
TO BE REMOVED FROM FLOOR

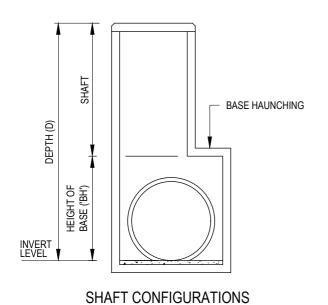
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SD 310





PIT WITH HAUNCHED BASE

STANDARD PIT LISTING

PIT TYPE	COVER TYPE	SD DRG. NO.
UNHAUNCHED (450Ø MAX)	CAST IRON CONCRETE FIBREGLASS	SD405
HAUNCHED	CAST IRON CONCRETE FIBREGLASS	SD410
JUNCTION	CAST IRON CONCRETE FIBREGLASS	SD425, SD426
GRATED	MILD STEEL/CAST IRON	SD441
SIDE ENTRY	CAST IRON CONCRETE FIBREGLASS	SD430, SD431, SD435, SD440, SD445, SD450
DEPRESSED GRATE	MILD STEEL/CAST IRON	SD455
INLET CATCH	CONCRETE	SD460

NOTES:

REFER SPECIFIC STANDARD DRAWINGS FOR FULL DIMENSIONS.

ALL MEASUREMENTS IN MILLIMETRES

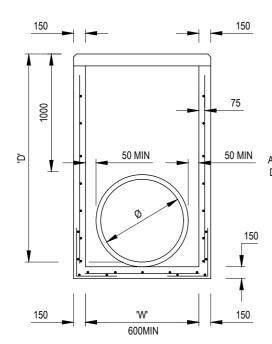
TYPICAL PIT DIMENSIONING AND SETTING OUT DETAIL

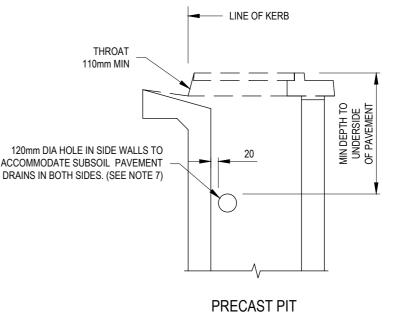
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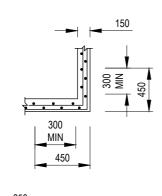
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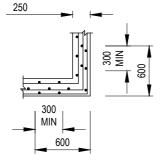
SD 400





PITS UP TO 3600mm DEPTH





PLAN VIEW

CORNER DETAILS

REINFORCEMENT DETAILS

PIT LENGTH 'L' OR WIDTH 'W'	REINFORCEMENT
UP TO 1200	SL92
1201 TO 1800	RL918
1801 TO 2400	RL1218

NOTES:

MINIMUM PIT SIZES:

PIPE DIAMETER		BASE DIMENSIONS 'W'
JP	SEP	DASE DIWIENSIONS W
UP TO 450Ø	UP TO 450Ø	600
450Ø & UPWARDS	450Ø & UPWARDS	900

- 2. PIPES GREATER THAN 450mm DIA. MAY REQUIRE HAUNCHING. REFER TO SD410.
- 3. FOR DETAILS OF SPECIFIC PITS, REFER TO PIT SCHEDULE.
- PIT REINFORCEMENT SHALL HAVE 300mm MIN LAPS. CLEAR COVER TO BE 50mm MIN. CORNER RETURN REINFORCEMENT MAY BE FABRIC OR EQUIVALENT BARS.
- 5. FOR TOP OF PIT DETAILS, REFER TO SPECIFIC DESIGN PIT SCHEDULE AND RELEVANT STANDARD DRAWINGS.
- 6. PRECAST PITS WITH THINNER WALLS AND LESS STEEL MAY BE ACCEPTED WHERE THE MANUFACTURER CAN DEMONSTRATE THAT THE PITS HAVE ADEQUATE CAPACITY TO SUPPORT A COMBINATION OF THE FOLLOWING LOADS:
 - LATERAL LOADS EARTH PRESSURE WITH 210 kN SURCHARGE
 - HYDROSTATIC PRESSURE
 - COMPACTION PRESSURE (25 kPa MIN)
 - VERTICAL LOAD 210 kN
- 7. SUBSOIL / PAVEMENT DRAIN HOLES TO BE SEALED IF NOT USED.
- 8. WHERE NO SUBSOIL DRAIN INSTALLED, OR WHERE GRAVEL BACKFILL IS USED, OR WHERE EXPANSIVE CLAYS ARE PRESENT; INSTALL 1m LONG SUBSOIL DRAIN AT THE BOTTOM OF THE PIT.
- 9. CONCRETE STRENGTH F'C = 25MPa. (MIN) AT 28 DAYS.

ALL MEASUREMENTS IN MILLIMETRES

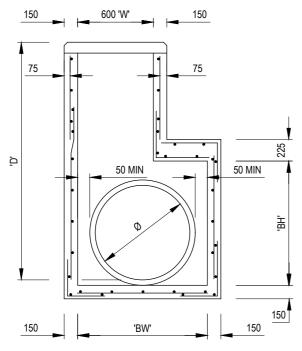
UNHAUNCHED PITS (450Ø MAX. PIPE)

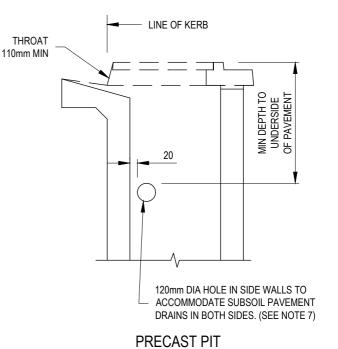
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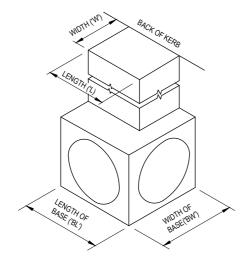
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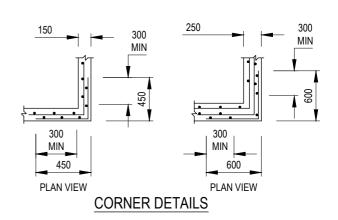
SD 405





PITS UP TO 3600mm DEPTH





INTERNAL PIT DIMENSIONS

NOTES:

- 1. PIPES LESS THAN 525mm DIA. MAY NOT REQUIRE HAUNCHING. REFER SD405.
- 2. PITS WITH HAUNCHING IN TWO DIRECTIONS REQUIRE SPECIAL STRUCTURAL DESIGN.
- . FOR DETAILS OF SPECIFIC PITS, REFER TO PIT SCHEDULE
- 4. PIT REINFORCEMENT SHALL HAVE 300mm MIN LAPS. CLEAR COVER TO BE 50mm MIN. CORNER RETURN REINFORCEMENT MAY BE FABRIC OR EQUIVALENT BARS.
- FOR TOP OF PIT DETAILS, REFER TO SPECIFIC DESIGN PIT SCHEDULE AND RELEVANT STANDARD DRAWINGS.
- 6. PRECAST PITS WITH THINNER WALLS AND LESS STEEL MAY BE ACCEPTED WHERE THE MANUFACTURER CAN DEMONSTRATE THAT THE PITS HAVE ADEQUATE CAPACITY TO SUPPORT A COMBINATION OF THE FOLLOWING LOADS:

LATERAL LOADS - EARTH PRESSURE WITH 210kN SURCHARGE

- HYDROSTATIC PRESSURE
- COMPACTION PRESSURE (25 kPa MIN)
- VERTICAL LOAD 210 kN
- 7. SUBSOIL / PAVEMENT DRAIN HOLES TO BE SEALED IF NOT USED.
- 8. WHERE NO SUBSOIL DRAIN INSTALLED, OR WHERE GRAVEL BACKFILL IS USED, OR WHERE EXPANSIVE CLAYS ARE PRESENT; INSTALL 1m LONG SUBSOIL DRAIN AT THE BOTTOM OF THE PIT.
- 9. CONCRETE STRENGTH F'C = 25MPa. (MIN) AT 28 DAYS.

ALL MEASUREMENTS IN MILLIMETRES

REINFORCEMENT DETAILS

PIT BASE LENGTH 'BL' OR BASE WIDTH 'BW'	REINFORCEMENT
UP TO 1200	SL92
1201 TO 1800	RL918
1801 TO 2400	RL1218

PIT SIZING

'BW' & 'BH'	'Ø'
(mm)	(mm)
900	525
-	600
	675
	750
	825
1200	900
	975
	1050
	1125
1500	1200

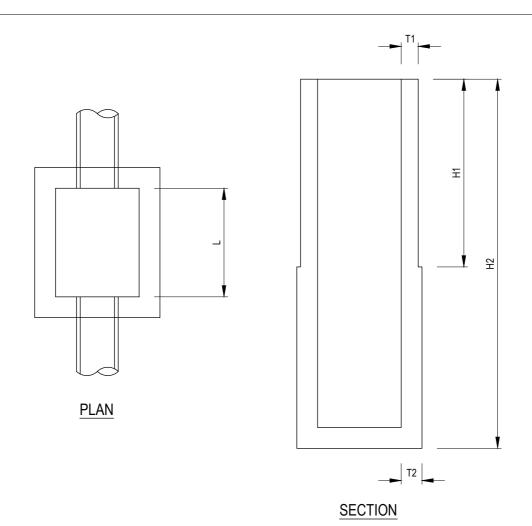
HAUNCHED PITS

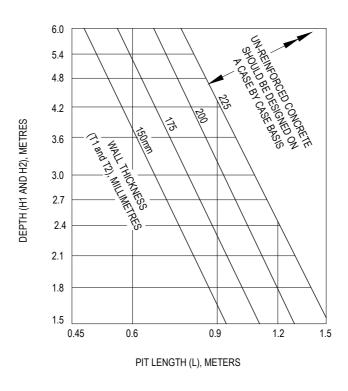
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SD 410





ALL MEASUREMENTS IN MILLIMETRES

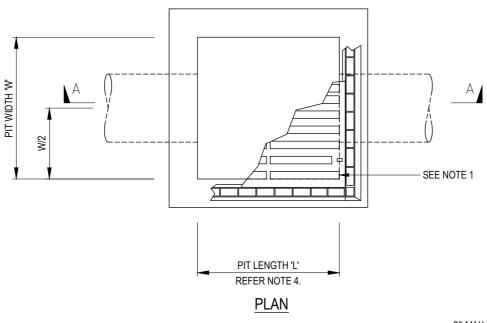
MIN. WALL THICKNESS FOR REINFORCEMENT IN MASS CONCRETE PITS (CAST IN-SITU)

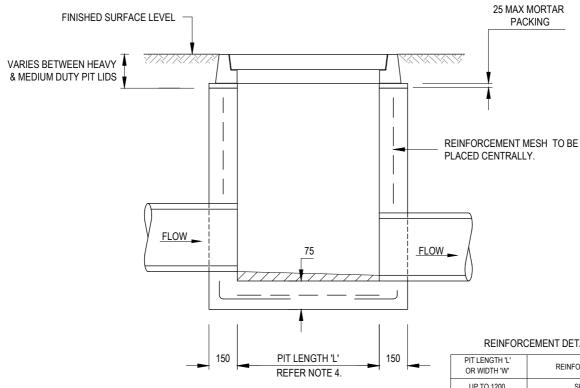
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SD 415





- HEAVY DUTY COVERS TO BE USED WHEN SUBJECT TO TRAFFICABLE LOADS (AS3996 CLASS D - 240kN) OR APPROVED EQUIVALENT. MEDIUM DUTY COVERS TO BE USED IN OFF ROAD USE (AS3996 CLASS B - 80kN) OR APPROVED EQUIVALENT.
- CONCRETE STRENGTH F'C = 25MPa. (MIN) AT 28 DAYS.
- JUNCTION PIT IN ROAD RESERVE TO HAVE MINIMUM INTERNAL PIT 3. DIMENSIONS OF 600 X 900.
- FOR TOP OF PIT DETAILS AND CHAMBER DIMENSIONS, REFER TO SPECIFIC DESIGN PIT SCHEDULE AND RELEVANT STANDARD DRAWINGS.
- WHERE PIT AT LOW POINT CONSTRUCT-100mm DIA. P.V.C. PIPE WITH CONSTRUCTION WORKS TO DRAIN WATER FROM PAVEMENT.

ALL MEASUREMENTS IN MILLIMETRES

SECTION A-A

REINFORCEMENT DETAILS

PIT LENGTH 'L' OR WIDTH 'W'	REINFORCEMENT
UP TO 1200	SL92
1201 TO 1800	RL918
1801 TO 2400	RL1218

MINIMUM PIT SIZES (EASEMENTS)

PIT DEPTH	PIT SIZE
<1000	600 x 600
>1000	600 x 900

MINIMUM PIT SIZES (ROAD RESERVE)

PIT DEPTH	PIT SIZE
ALL PITS	600 x 900

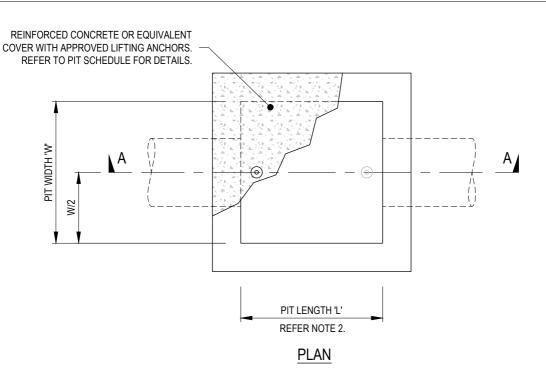
JUNCTION PIT IN ROAD RESERVE

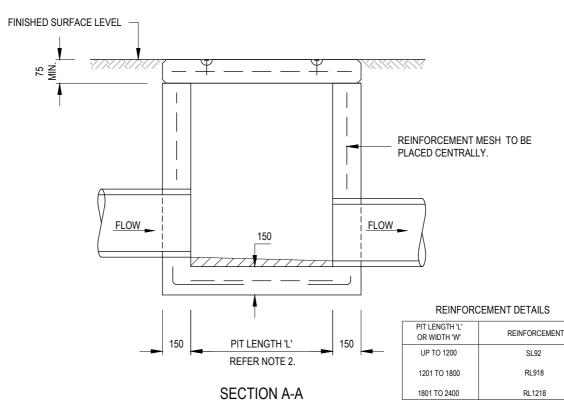
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LAST UPDATED 12/03/2020





- CONCRETE STRENGTH F'C = 25MPa. (MIN) AT 28 DAYS.
- FOR TOP OF PIT DETAILS AND CHAMBER DIMENSIONS, REFER TO SPECIFIC DESIGN PIT SCHEDULE AND RELEVANT STANDARD DRAWINGS.
- LIDS TO BE SPLIT FOR CHAMBERS GREATER THAN 1050 x 1050mm

MINIMUM PIT SIZES (EASEMENTS)

SL92

RL918

RL1218

PIT DEPTH	PIT SIZE
<1000	600 x 600
>1000	600 x 900

MINIMUM PIT SIZES (ROAD RESERVE)

PIT DEPTH	PIT SIZE
ALL PITS	600 x 900

ALL MEASUREMENTS IN MILLIMETRES

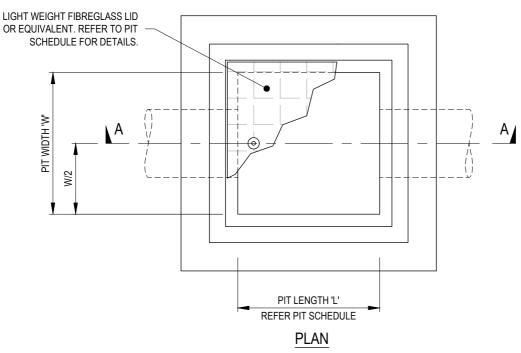
JUNCTION PIT WITH CONCRETE COVER (NON TRAFFICABLE AREAS)

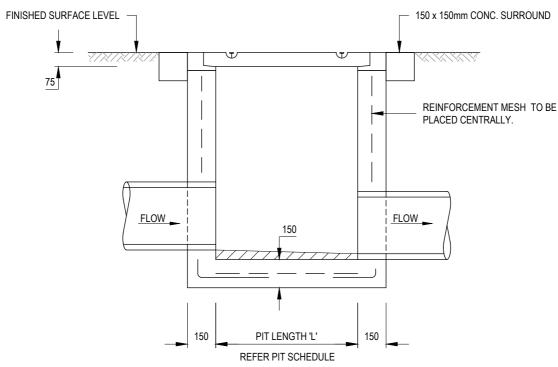
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- CONCRETE STRENGTH F'C = 25MPa. (MIN) AT 28 DAYS.
- 2. FOR DEPTHS OF INVERT GREATER THAN 1.5m WALL THICKNESS TO BE 200mm AND BASE TO BE 900 x 900mm.
- 3. SL82 REINFORCING MESH FOR PITS GREATER THAN 1.2m IN DEPTH
- 4. PIT LID TO BE LIGHT WEIGHT FIBREGLASS TYPE, OR APPROVED EQUIVALENT. PROVIDE REBATE IN PIT WALL FOR LID LOCKING.
- 5. IF PIT IS TO BE CONSTRUCTED INSIDE AN EASEMENT THE WORDS "NOT TO BE COVERED OR BUILT OVER" ARE TO BE STAMPED IN LID WITH A MIN TEXT HEIGHT OF 50mm.
- 6. FOR TOP OF PIT DETAILS AND CHAMBER DIMENSIONS, REFER TO SPECIFIC DESIGN PIT SCHEDULE AND RELEVANT STANDARD DRAWINGS

SECTION A-A

7. WHERE PIT AT LOW POINT CONSTRUCT-100mm DIA. P.V.C. PIPE WITH CONSTRUCTION WORKS TO DRAIN WATER FROM PAVEMENT.

ALL MEASUREMENTS IN MILLIMETRES

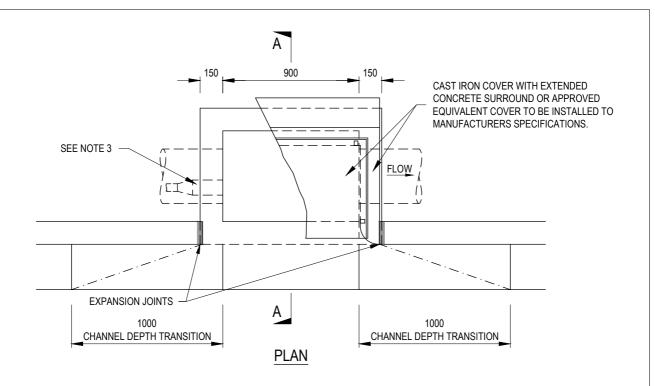
JUNCTION PIT WITH NON-CONCRETE COVER (NON TRAFFICABLE AREAS)

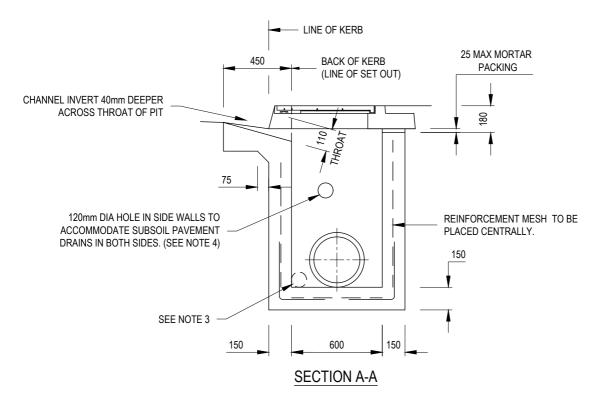
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SD 426





REINFORCEMENT DETAILS

PIT LENGTH 'L' OR WIDTH 'W'	REINFORCEMENT
UP TO 1200	SL92
1201 TO 1800	RL918
1801 TO 2400	RL1218

NOTES:

- 1. REFER TO SD100 FOR KERB DETAILS.
- 2. CONCRETE STRENGTH F'C = 25MPa. (MIN) AT 28 DAYS.
- WHERE NO SUBSOIL DRAIN INSTALLED, OR WHERE GRAVEL BACKFILL IS USED, OR WHERE EXPANSIVE CLAYS ARE PRESENT; INSTALL 1m LONG SUBSOIL DRAIN AT THE BOTTOM OF THE PIT.
- 4. SUBSOIL / PAVEMENT DRAIN HOLES TO BE SEALED IF NOT USED.
- WHERE PIT AT LOW POINT CONSTRUCT-100mm DIA. P.V.C. PIPE WITH CONSTRUCTION WORKS TO DRAIN WATER FROM PAVEMENT.

ALL MEASUREMENTS IN MILLIMETRES

SIDE ENTRY PIT 900mm INLET WITH CAST IRON COVER & CONCRETE SURROUND FOR 'B2'

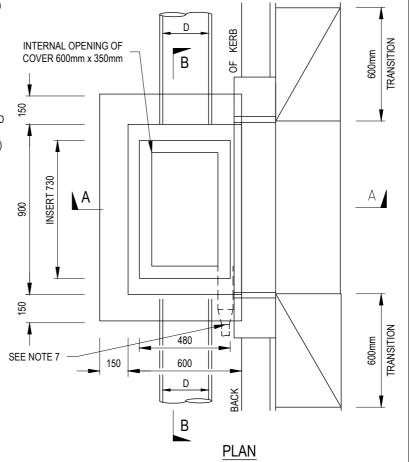
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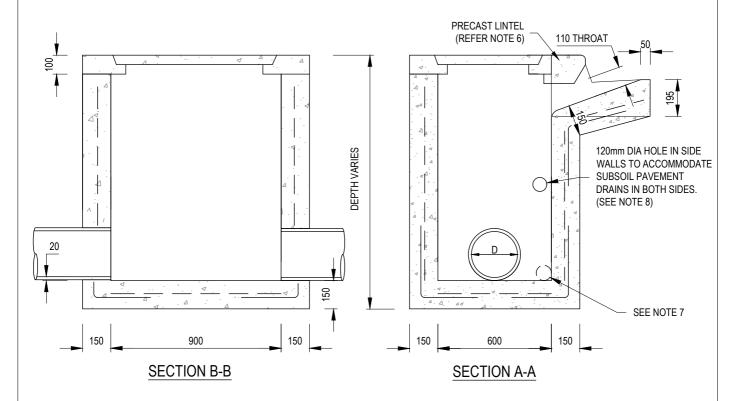
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SD 430

- PIT TO BE CONSTRUCTED IN 2 STAGES. STAGE 2-TOP 500mm OF PIT IN CONJUNCTION WITH KERB AND CHANNEL.
- WHERE PIT AT LOW POINT CONSTRUCT-100mm DIA. P.V.C. PIPE WITH CONSTRUCTION WORKS TO DRAIN WATER FROM PAVEMENT.
- 3. AT LOW POINT TRANSITION 600mm BOTH SIDES.
- 4. CONCRETE STRENGTH F'C = 25MPa. (MIN) AT 28 DAYS
- FIBREGLASS PIT LIDS WITH EA FRAME AND LIGHTWEIGHT LOCKING LID OR APPROVED EQUIVALENT CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH AS3996 MAY BE USED INSTEAD OF CONCRETE.
- 6. PRECAST LINTEL TO MATCH REQUIRED KERB TYPE (SM2, B2)
- WHERE NO SUBSOIL DRAIN INSTALLED, OR WHERE GRAVEL BACKFILL IS USED, OR WHERE EXPANSIVE CLAYS ARE PRESENT; INSTALL 1m LONG SUBSOIL DRAIN AT THE BOTTOM OF THE PIT.
- SUBSOIL / PAVEMENT DRAIN HOLES TO BE SEALED IF NOT USED.





ALL MEASUREMENTS IN MILLIMETRES

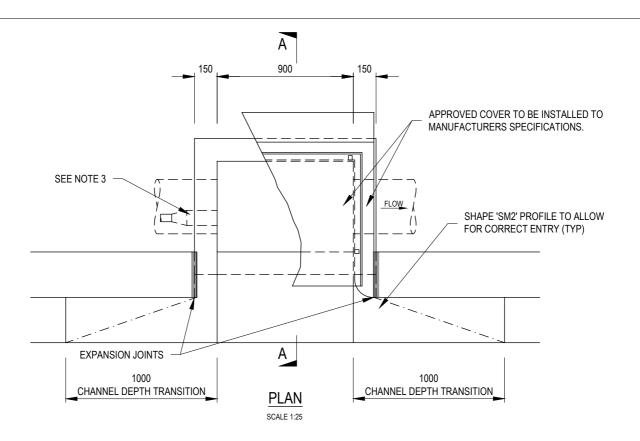
900 x 600mm SIDE ENTRY PIT PIPES UP TO 450mmØ (PRECAST CONCRETE LINTEL)

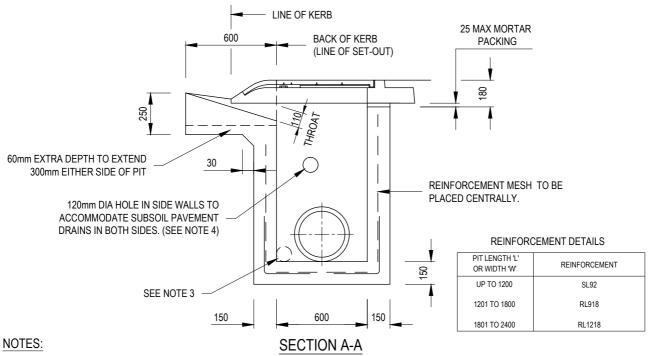
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SD 431





- 1. REFER TO SD100 FOR KERB DETAILS.
- 2. CONCRETE STRENGTH F'C = 25MPa. (MIN) AT 28 DAYS.
- WHERE NO SUBSOIL DRAIN INSTALLED, OR WHERE GRAVEL BACKFILL IS USED, OR WHERE EXPANSIVE CLAYS ARE PRESENT; INSTALL 1m LONG SUBSOIL DRAIN AT THE BOTTOM OF THE PIT.
- 4. SUBSOIL / PAVEMENT DRAIN HOLES TO BE SEALED IF NOT USED.
- WHERE PIT AT LOW POINT CONSTRUCT-100mm DIA. P.V.C. PIPE WITH CONSTRUCTION WORKS TO DRAIN WATER FROM PAVEMENT.

ALL MEASUREMENTS IN MILLIMETRES

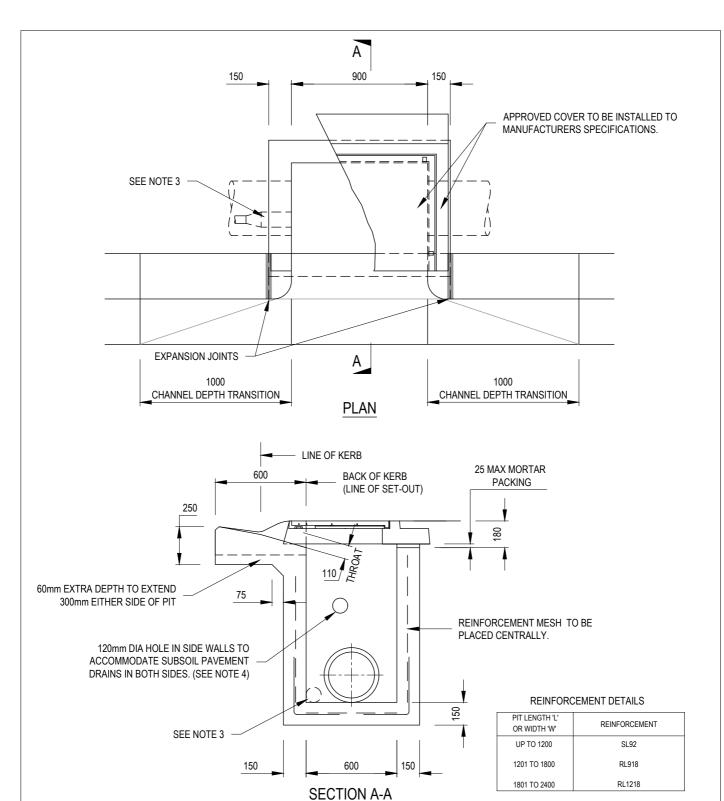
SIDE ENTRY PIT900mm INLET WITH CAST IRON COVER & CONCRETE SURROUND FOR 'SM2'

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SD 435



NOTES:

- 1. REFER TO SD100 FOR KERB DETAILS.
- CONCRETE STRENGTH F'C = 25MPa. (MIN) AT 28 DAYS.
- WHERE NO SUBSOIL DRAIN INSTALLED, OR WHERE GRAVEL BACKFILL IS USED, OR WHERE EXPANSIVE CLAYS ARE PRESENT; INSTALL 1m LONG SUBSOIL DRAIN AT THE BOTTOM OF THE PIT.
- 4. SUBSOIL / PAVEMENT DRAIN HOLES TO BE SEALED IF NOT USED.
- WHERE PIT AT LOW POINT CONSTRUCT-100mm DIA. P.V.C. PIPE WITH CONSTRUCTION WORKS TO DRAIN WATER FROM PAVEMENT.

ALL MEASUREMENTS IN MILLIMETRES

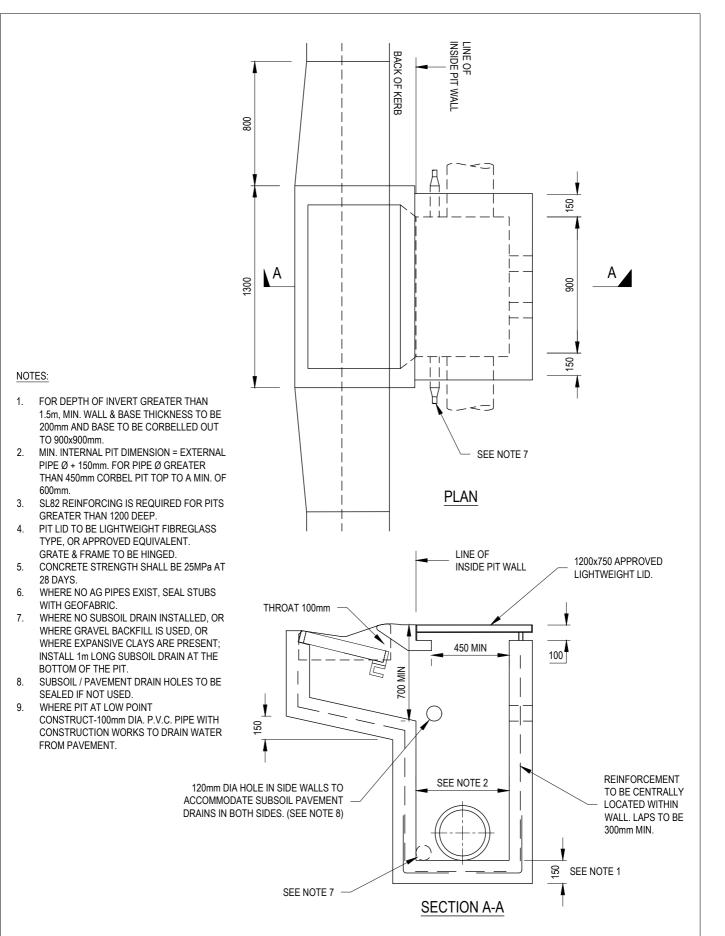
SIDE ENTRY PIT 900mm INLET WITH CAST IRON COVER & CONCRETE SURROUND FOR 'SM2-M'

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SD 440



ALL MEASUREMENTS IN MILLIMETRES

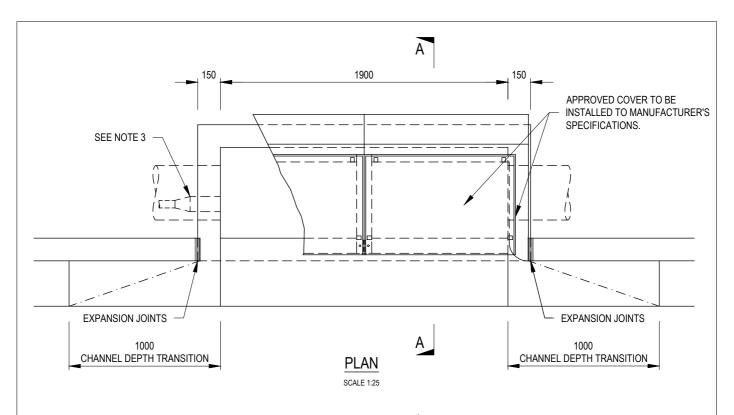
GRATED SIDE ENTRY PIT WITH LIGHTWEIGHT COVER & CONCRETE SURROUND FOR 'SM2-M'

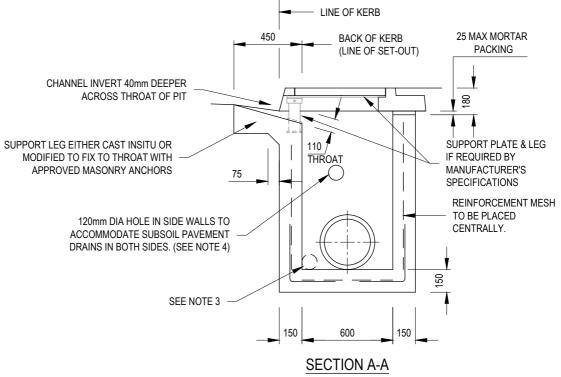
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SD 441





REINFORCEMENT DETAILS

PIT LENGTH 'L' OR WIDTH 'W'	REINFORCEMENT
UP TO 1200	SL92
1201 TO 1800	RL918
1801 TO 2400	RL1218

NOTES:

- 1. REFER TO SD100 FR KERB DETAILS.
- 2. CONCRETE STRENGTH F'C = 25MPa. (MIN) AT 28 DAYS.
- WHERE NO SUBSOIL DRAIN INSTALLED, OR WHERE GRAVEL BACKFILL IS USED, OR WHERE EXPANSIVE CLAYS ARE PRESENT; INSTALL 1m LONG SUBSOIL DRAIN AT THE BOTTOM OF THE PIT.
- 4. SUBSOIL / PAVEMENT DRAIN HOLES TO BE SEALED IF NOT USED
- WHERE PIT AT LOW POINT CONSTRUCT-100mm DIA. P.V.C. PIPE WITH CONSTRUCTION WORKS TO DRAIN WATER FROM PAVEMENT.

ALL MEASUREMENTS IN MILLIMETRES

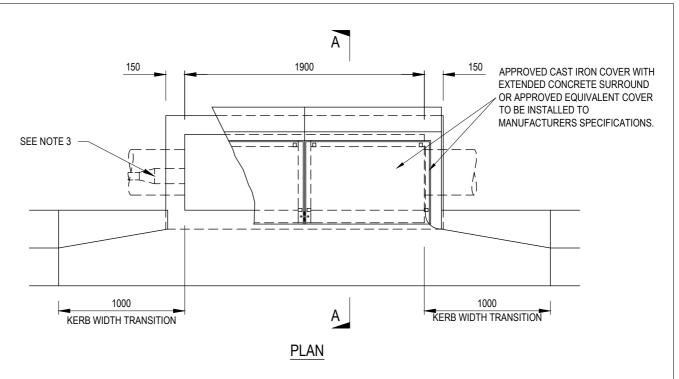
DOUBLE SIDE ENTRY PIT 1900mm INLET WITH APPROVED COVER & CONCRETE SURROUND FOR 'B2'

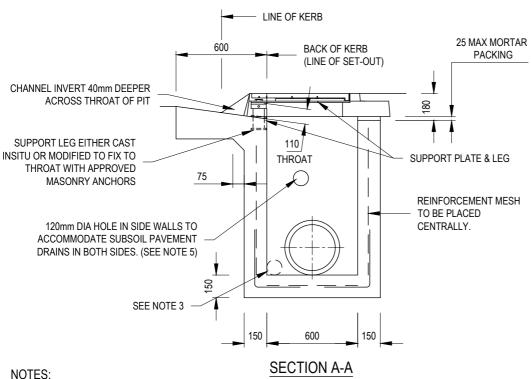
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SD 445





- 1. REFER TO SD100 FR KERB DETAILS.
- CONCRETE STRENGTH F'C = 25MPa. (MIN) AT 28 DAYS.
- 3. WHERE PIT AT LOW POINT CONSTRUCT-100mm DIA. P.V.C. PIPE WITH CONSTRUCTION WORKS TO DRAIN WATER FROM PAVEMENT.
- 4. WHERE NO SUBSOIL DRAIN INSTALLED, OR WHERE GRAVEL BACKFILL IS USED, OR WHERE EXPANSIVE CLAYS ARE PRESENT; INSTALL 1m LONG SUBSOIL DRAIN AT THE BOTTOM OF THE PIT.
- 5. SUBSOIL / PAVEMENT DRAIN HOLES TO BE SEALED IF NOT USED.

REINFORCEMENT DETAILS

PIT LENGTH 'L' OR WIDTH 'W'	REINFORCEMENT
UP TO 1200	SL92
1201 TO 1800	RL918
1801 TO 2400	RL1218

ALL MEASUREMENTS IN MILLIMETRES

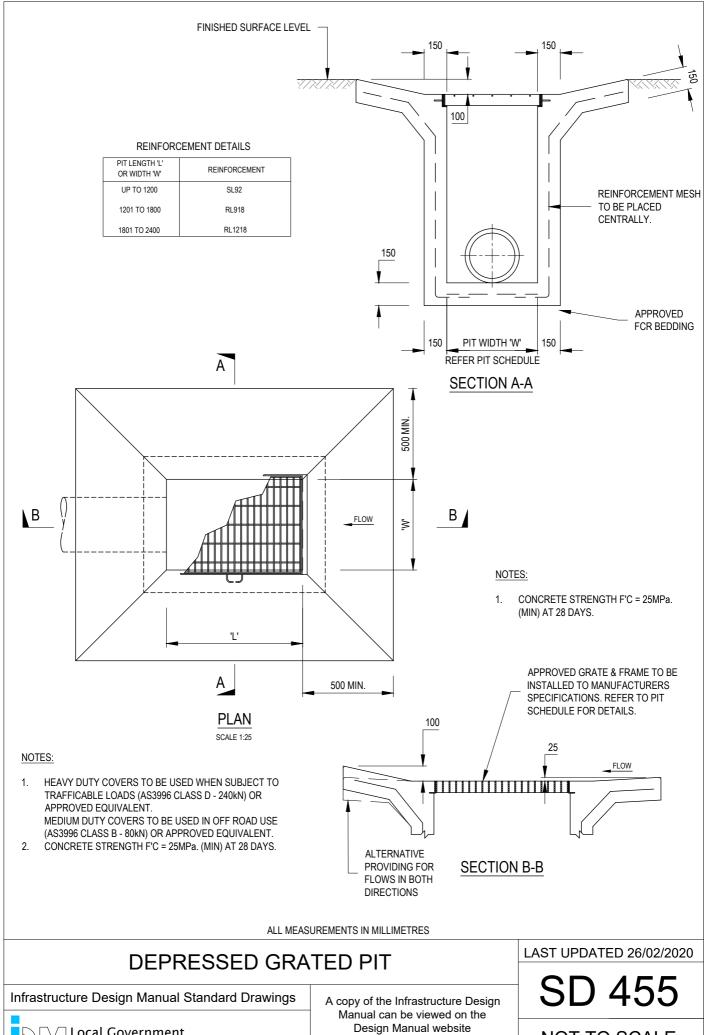
DOUBLE SIDE ENTRY PIT 1900mm INLET WITH CAST IRON COVER & CONCRETE SURROUND FOR 'SM2'

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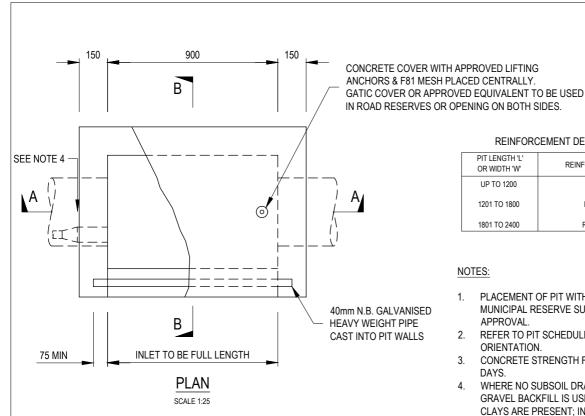
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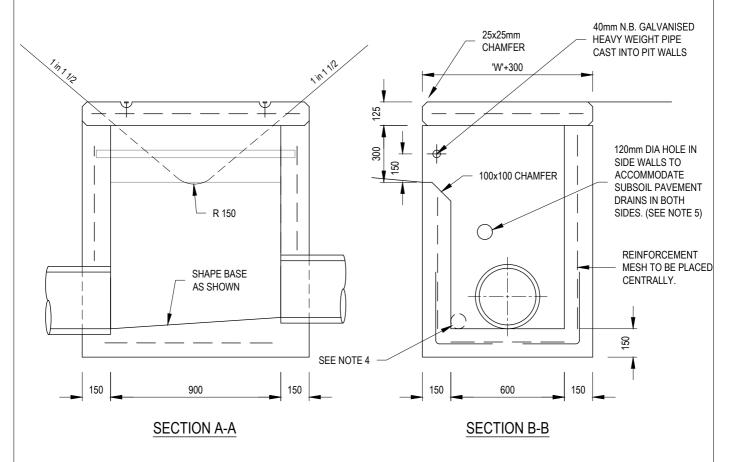


REINFORCEMENT DETAILS

PIT LENGTH 'L' OR WIDTH 'W'	REINFORCEMENT
UP TO 1200	SL92
1201 TO 1800	RL918
1801 TO 2400	RL1218

NOTES:

- PLACEMENT OF PIT WITHIN ROAD RESERVE / MUNICIPAL RESERVE SUBJECT TO COUNCIL **APPROVAL**
- REFER TO PIT SCHEDULE FOR CORRECT PIT ORIENTATION.
- 3. CONCRETE STRENGTH F'C = 25MPa. (MIN) AT 28 DAYS
- WHERE NO SUBSOIL DRAIN INSTALLED, OR WHERE GRAVEL BACKFILL IS USED, OR WHERE EXPANSIVE CLAYS ARE PRESENT; INSTALL 1m LONG SUBSOIL DRAIN AT THE BOTTOM OF THE PIT.
- SUBSOIL / PAVEMENT DRAIN HOLES TO BE SEALED IF NOT USED.



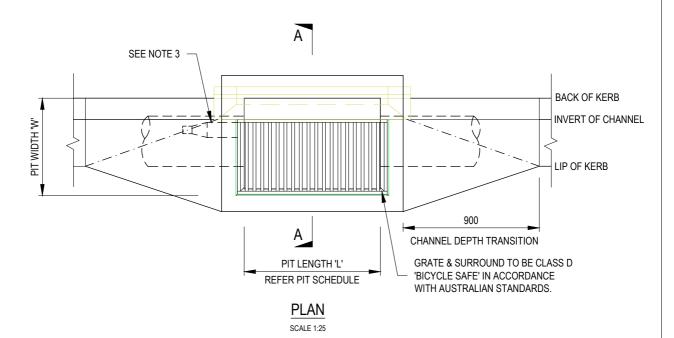
ALL MEASUREMENTS IN MILLIMETRES

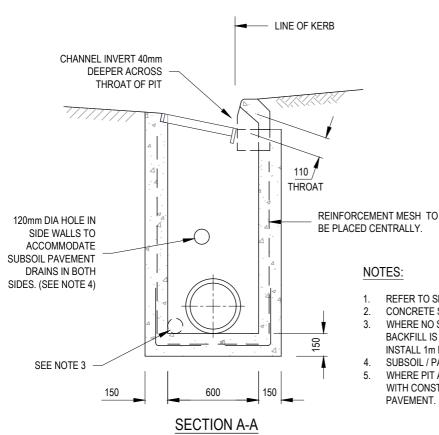
INLET CATCH PIT

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REINFORCEMENT DETAILS

PIT LENGTH 'L' OR WIDTH 'W'	REINFORCEMENT				
UP TO 1200	SL92				
1201 TO 1800	RL918				
1801 TO 2400	RL1218				

NOTES:

- REFER TO SD100 FOR KERB DETAILS.
- CONCRETE STRENGTH F'C = 25MPa. (MIN) AT 28 DAYS.
- WHERE NO SUBSOIL DRAIN INSTALLED, OR WHERE GRAVEL BACKFILL IS USED, OR WHERE EXPANSIVE CLAYS ARE PRESENT; INSTALL 1m LONG SUBSOIL DRAIN AT THE BOTTOM OF THE PIT.
- SUBSOIL / PAVEMENT DRAIN HOLES TO BE SEALED IF NOT USED
- WHERE PIT AT LOW POINT CONSTRUCT-100mm DIA. P.V.C. PIPE WITH CONSTRUCTION WORKS TO DRAIN WATER FROM PAVEMENT.

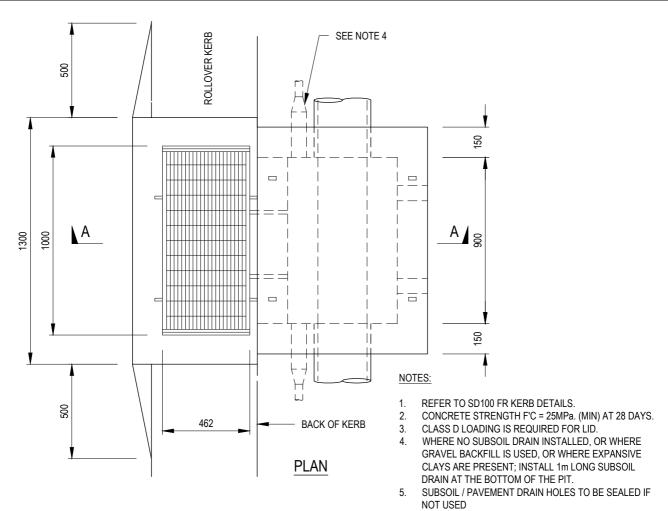
ALL MEASUREMENTS IN MILLIMETRES

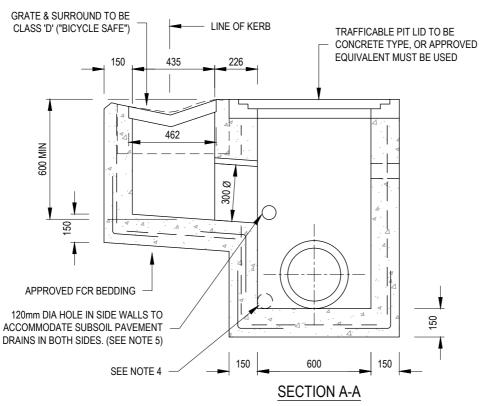
GRATED SIDE ENTRY PIT INLET 900mm WITH CONCRETE SURROUND FOR 'B2'

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GRATED PIT FOR SM2 MODIFIED KERB & CHANNEL

Infrastructure Design Manual Standard Drawings A

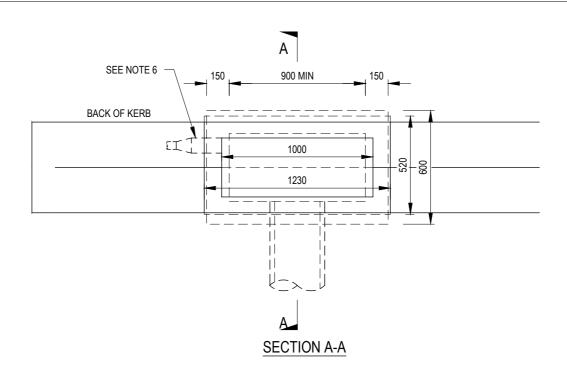
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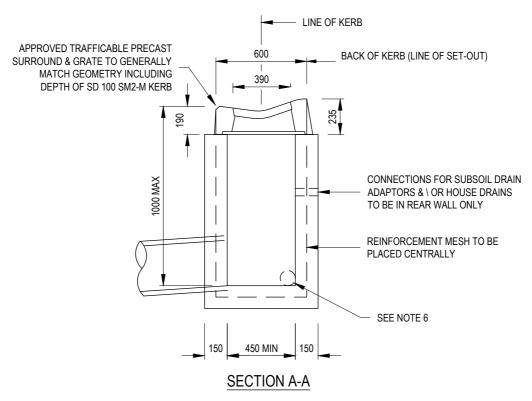
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ALL MEASUREMENTS IN MILLIMETRES

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SD 480





NOTES:

- 1. FOR USE AS UPSTREAM PIT ONLY
- 2. MAXIMUM PIT DEPTH 1000mm
- 3. APPROVED GRATE & SURROUND TYPE TO MATCH KERB
- 4. GRATE & SURROUND TO BE CLASS 'D' ("BICYCLE SAFE")
- 5. CONCRETE STRENGTH SHALL BE 25MPa AT 28 DAYS.
- WHERE NO SUBSOIL DRAIN INSTALLED, OR WHERE GRAVEL BACKFILL IS USED, OR WHERE EXPANSIVE CLAYS ARE PRESENT; INSTALL 1m LONG SUBSOIL DRAIN AT THE BOTTOM OF THE PIT.

ALL MEASUREMENTS IN MILLIMETRES

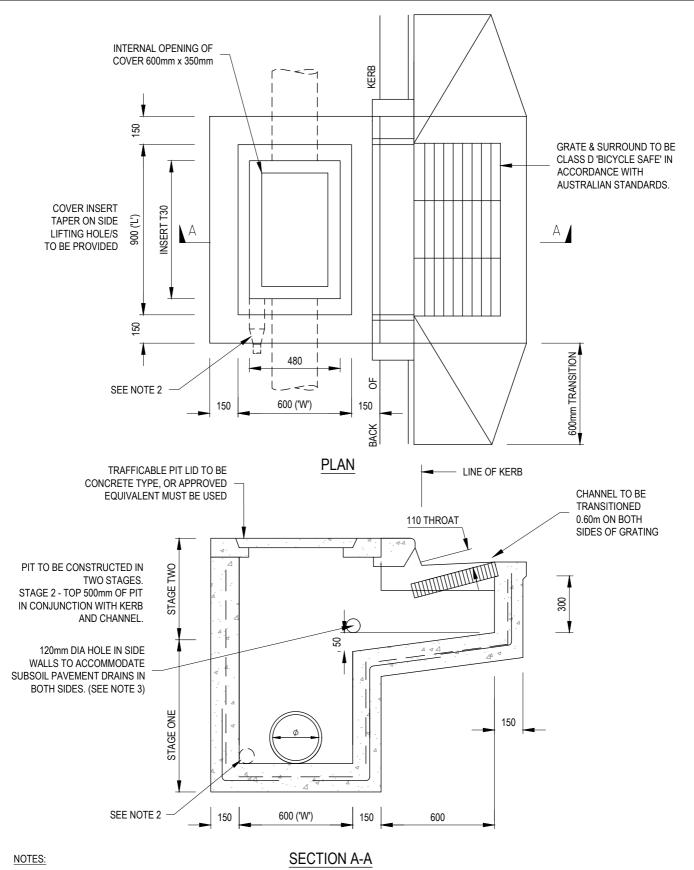
ALTERNATE GRATED PIT FOR SM2 MODIFIED KERB & CHANNEL 'SM2-M' - UPSTREAM PIT ONLY

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SD 481



1. CONCRETE STRENGTH F'C = 25MPa. (MIN) AT 28 DAYS

- WHERE NO SUBSOIL DRAIN INSTALLED, OR WHERE GRAVEL BACKFILL IS USED, OR WHERE EXPANSIVE CLAYS ARE PRESENT; INSTALL 1m LONG SUBSOIL DRAIN AT THE BOTTOM OF THE PIT.
- B. SUBSOIL / PAVEMENT DRAIN HOLES TO BE SEALED IF NOT USED ALL MEASUREMENTS IN MILLIMETRES

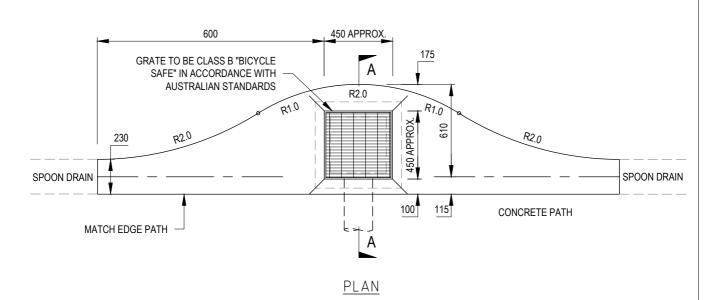
900 x 600mm SIDE ENTRY PIT WITH GRATING

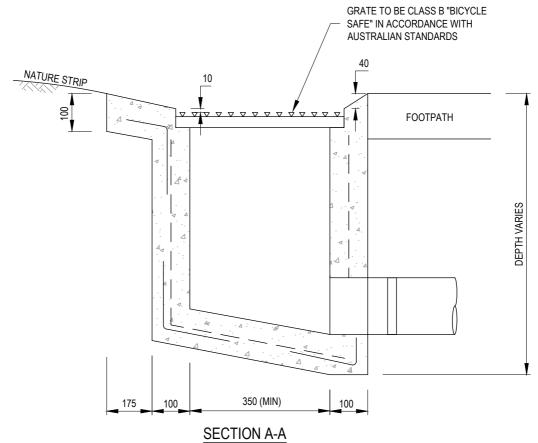
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SD 490





NOTES:

- --
- EDGE CONCRETE AROUND PERIMETER OF GRATE.
- 2. TOP OF GRATE 50mm BELOW EDGE OF PATH.
- 3. DO NOT CAST IN OR BOND GRATE TO CONCRETE PIT TO ALLOW EASY ACCESS TO PIT.
- 4. CONCRETE TO BE SMOOTH TROWELLED FINISH.
- 5. GRATE FRAME TO BE OILED IF INSTALLED IN WET CONCRETE.
- 6. CONCRETE STRENGTH F'C = 25MPa. (MIN) AT 28 DAYS

ALL MEASUREMENTS IN MILLIMETRES

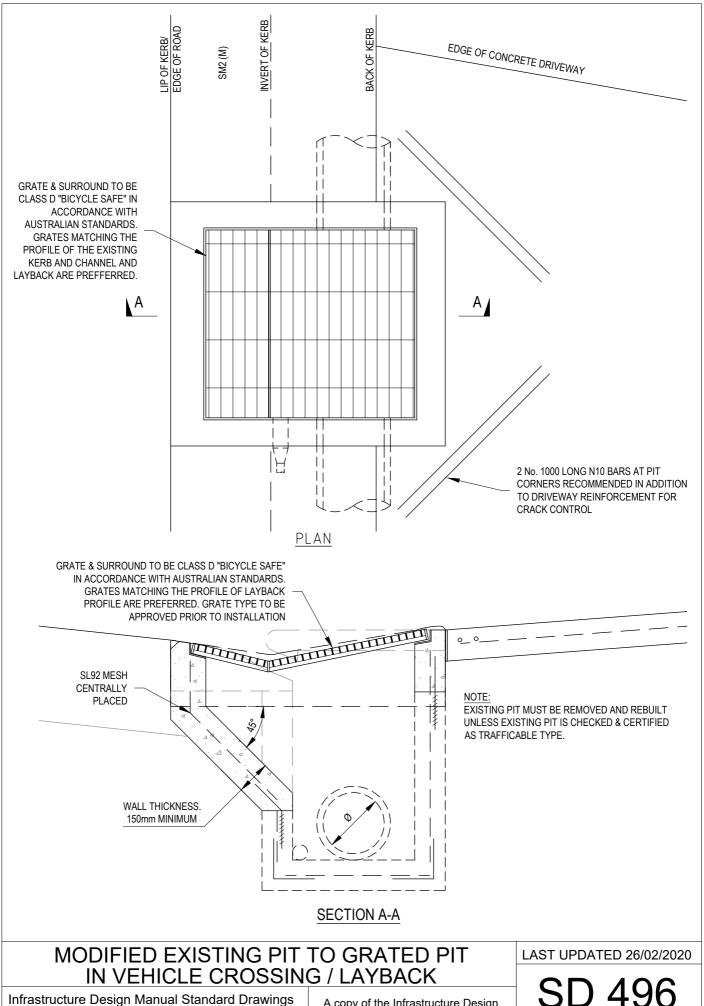
SPOON PIT WITH GRATING

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SD 495



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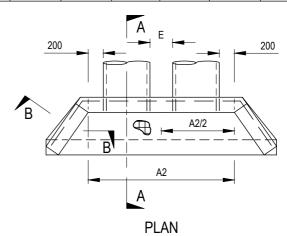
DIMENSIONS

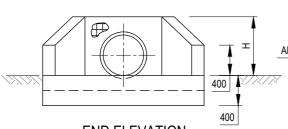
TYPE 1			TYPE 2			TYPE 3					
*SLOPE AT 1.5:1			*SLOPE AT 2:1			*SLOPE AT 3:1					
В	С	D	F	В	С	D	F	В	С	D	F
138	1037	197	240	138	1129	262	320	275	1312	393	480
221	1286	315	385	294	1433	420	513	441	1727	630	769
307	1547	438	535	409	1752	584	713	613	2161	876	1069
394	1804	563	687	525	2066	750	916	788	2591	1125	1373

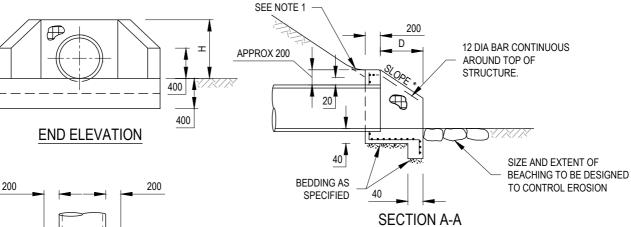
- * THEORETICAL SLOPE OF WINGWALL MEASURED AT RIGHT ANGLES TO THE ROADWAY.
- A2=A+E+EXTERNAL DIAMETER OF PIPE
- # APPROXIMATE ONLY

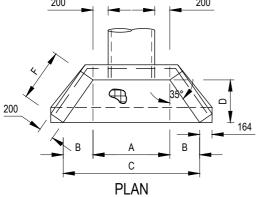
NOM PIPE DIA	EXTERNAL PIPE DIA [#]	A**	E	Н
300	362	762	300	531
375	445	845	300	610
450	534	934	300	692
525	616	1016	300	775

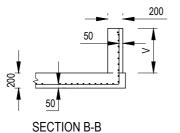
FOR LARGER PIPE DIAMETERS REFER TO VICROADS SD1931 REV B











V = VARIABLE HEIGHT OF THE WINGWALL

NOTES:

- BECAUSE THE RELATION OF THE BATTER TO THE TOP OF THE ENDWALL IS ESSENTIAL 1. FOR THE SAFETY OF THE MOTORIST THE DETAILS AS SHOWN IN SECTION A-A MUST BE ADHERED TO DURING CONSTRUCTION.
- 2 REINFORCEMENT, F82 UNLESS OTHERWISE SPECIFIED, SHALL BE CONTINUOUS AROUND CORNERS AND LOCATED AS SHOWN ON SECTIONS A-A AND B-B. CLEAR COVER 50 MIN. LAPS: FABRICS 300 MIN, BARS 25 X BAR DIAMETER MIN.
- 3 DISTRIBUTION BARS 12 DIA AT 200 CENTRES
- CONCRETE STRENGTH SHALL BE 32MPa. (MIN) AT 28 DAYS.STANDARD STRENGTH GRADE OR HIGHER COMPLYING WITH THE REQUIREMENTS OF AS 1379. EXPOSURE CLASSIFICATION UP TO AND INCLUDING B1
- 5. EXPOSED EDGES SHALL HAVE 20 x 20 CHAMFERS.
- 6. COMPACTION PRESSURE BEHIND WALLS NOT TO EXCEED 15 kPa. (1.5 TONNE VIBRATORY ROLLER OR 300 kg VIBRATING PLATE WITHIN 0.5m OF WALL).
- 7. ENDWALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE RELEVANT PROVISIONS OF AS 3600.

ALL MEASUREMENTS IN MILLIMETRES

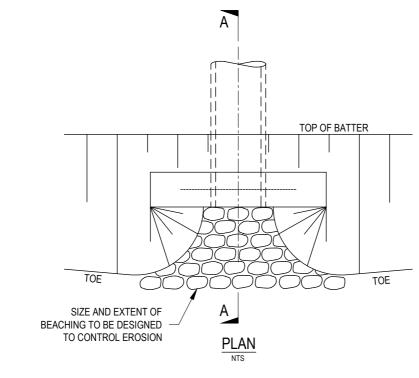
REINFORCED CONCRETE WINGWALL (IN-SITU)

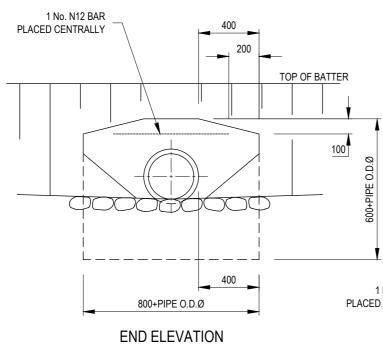
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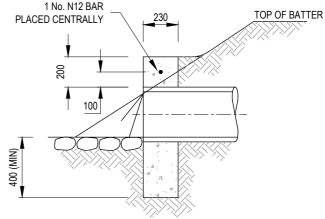
LAST UPDATED 26/02/2020





NOTES: 1. COMPACTION PRESSURE BEHIND ENDWALLS IS NOT TO EXCEED

- 12.5kPa.REFER (1.5 TONNE VIBRATORY ROLLER).
 2. A MAXIMUM PIPE SIZE OF 375Ø FOR THIS ENDWALL ARRANGEMENT.
- 3. NOT TO BE USED WHERE GENERAL VEHICULAR TRAFFIC IS PRESENT, (MAINTENANCE OR EMERGENCY VEHICLES EXCEPTED AS ALLOWED BY SD 260).
- ALTERNATIVELY PRECAST ENDWALL MAY BE USED WHERE APPROVED BY COUNCIL.
- 5. CONCRETE STRENGTH F'C = 25MPa. (MIN) AT 28 DAYS.



SECTION A-A

ALL MEASUREMENTS IN MILLIMETRES

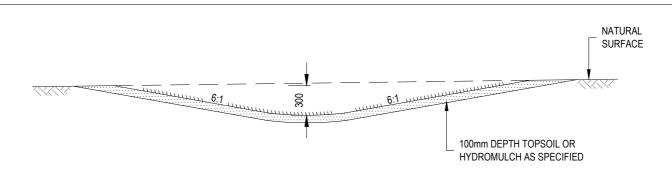
CONCRETE ENDWALL FOR PIPES UP TO 375mmØ (WALKWAYS, PATHS & TRACKS)

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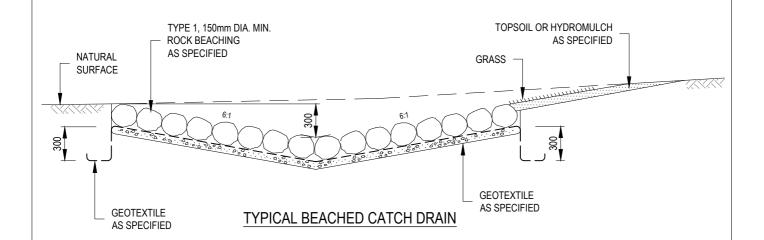
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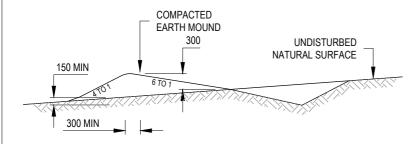
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SD 498



TYPICAL GRASS CATCH DRAIN SECTIONS



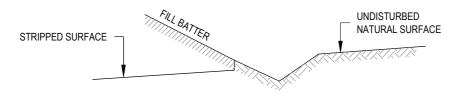


TYPICAL MOUNDED CATCH DRAIN

(ERODABLE TERRAIN)

NOTES:

- CATCH DRAINS SHALL BE CONSTRUCTED WHERE INDICATED ON ALIGNMENT PLANS.
- CATCH DRAINS LOCATION RELATIVE TO THE BATTER SHALL BE DETERMINED BY THE COUNCIL REPRESENTATIVE.
- CATCH DRAINS SHALL BE GRADED TO CULVERTS OR EXISTING LOW POINTS.
- CATCH DRAINS SHALL BE LINED WITH TOPSOIL OR HYDROMULCH AS SHOWN.
- 5. REFER SD460 FOR INLET CATCH PIT DETAILS.



TYPICAL CATCH DRAIN AT TOE OF BATTER

ALL MEASUREMENTS IN MILLIMETRES

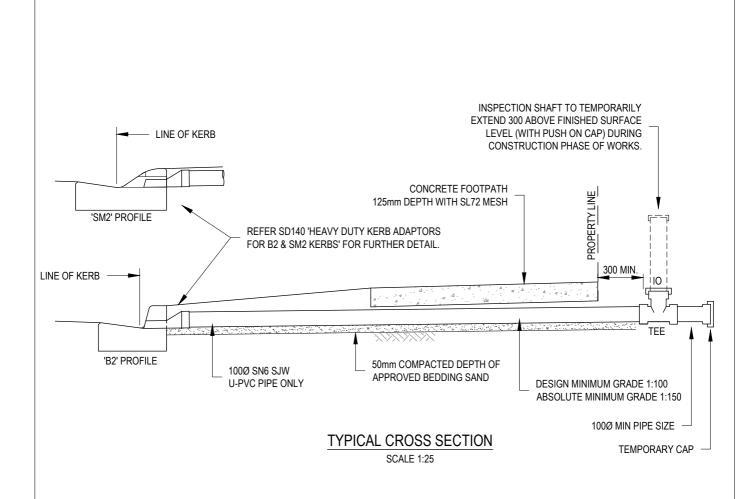
CATCH DRAIN DETAILS

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SD 500



NOTES:

- LOCATION OF HOUSE DRAINS WITHIN PROPERTY
 BOUNDARY TO BE MARKED WITH AN APPROVED TAPE
 TIED TO EXTEND THROUGH FINISHED SURFACE FOR
 EASY LOCATION BY BUILDERS.
- REFER TO PLUMBING CODE OF AUSTRALIA FOR ALL PIPE LAYING AND JOINTING REQUIREMENTS.

ALL MEASUREMENTS IN MILLIMETRES

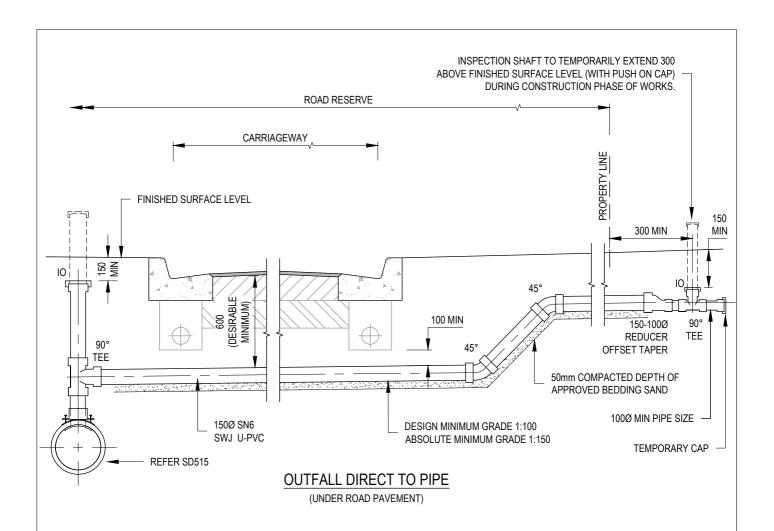
HOUSE DRAIN TO KERB & CHANNEL

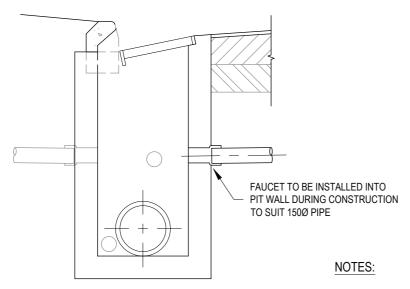
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SD 505





OUTFALL DIRECT TO DRAINAGE PIT

(STREET DRAINAGE)

- LOCATION OF HOUSE DRAINS WITHIN PROPERTY BOUNDARY TO BE MARKED WITH AN APPROVED TAPE TIED TO EXTEND THROUGH FINISHED SURFACE FOR EASY LOCATION BY BUILDERS.
- 20mm CLASS 3 F.C.R. BACKFILL COMPACTED TO 98% MODIFIED DENSITY RATIO TO BE USED UNDER ROAD PAVEMENT.
- CONCRETE KERB TO BE STAMPED WHEN CURING WITH THE LETTER 'D' ADJACENT THE HOUSE DRAIN CONNECTION POINT.
- 4. REFER TO PLUMBING CODE OF AUSTRALIA FOR ALL PIPE LAYING AND

ALL MEASUREMENTS IN POLICE REQUIREMENTS.

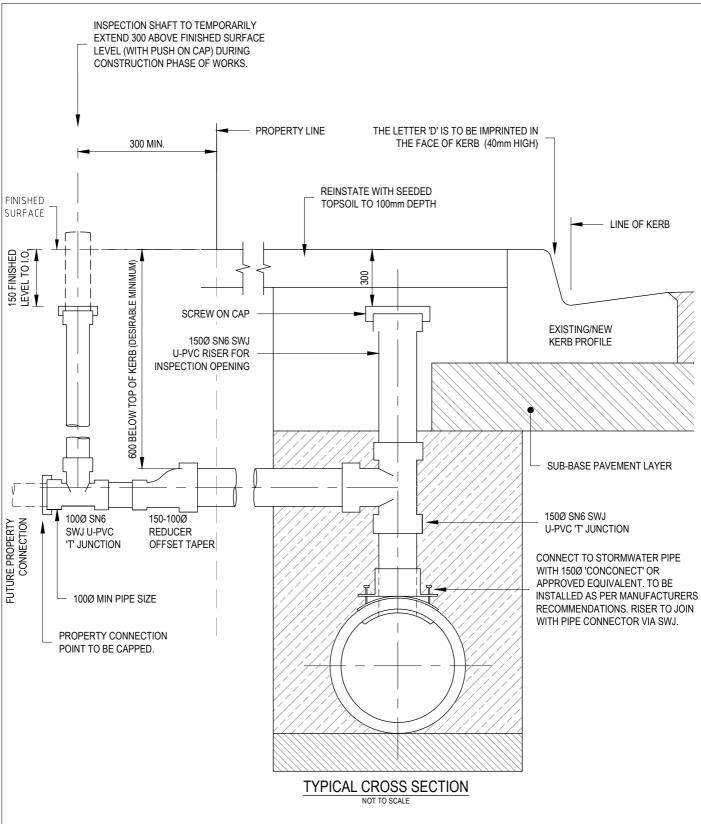
HOUSE DRAIN UNDER ROAD PAVEMENT

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SD 510



NOTES:

- REFER TO PLUMBING CODE OF AUSTRALIA FOR ALL PIPE LAYING AND JOINTING REQUIREMENTS.
- LOCATION OF HOUSE DRAINS WITHIN PROPERTY BOUNDARY TO BE MARKED WITH AN APPROVED TAPE TIED TO EXTEND THROUGH FINISHED SURFACE FOR EASY LOCATION BY BUILDERS.

ALL MEASUREMENTS IN MILLIMETRES

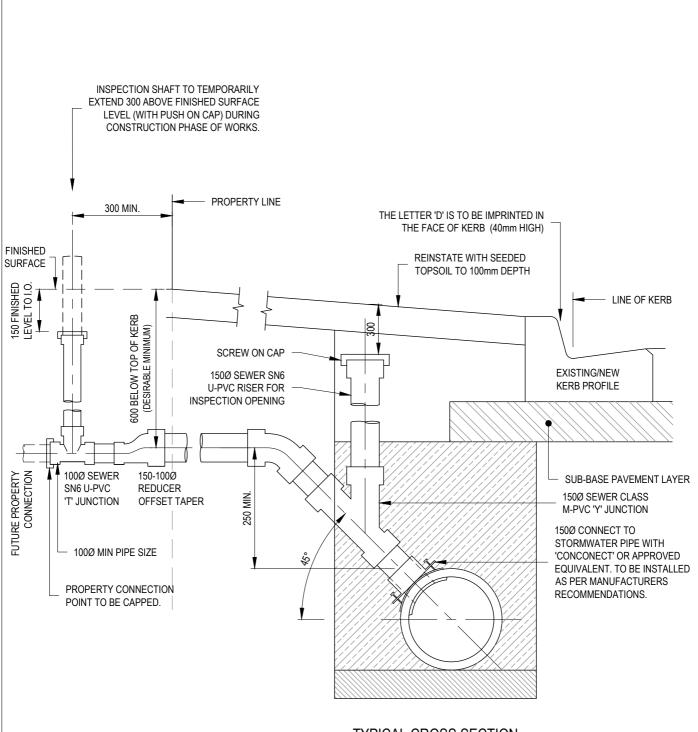
STREET DRAIN CONNECTION

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SD 515



TYPICAL CROSS SECTION
NOT TO SCALE

NOTES:

- LOCATION OF HOUSE DRAINS WITHIN PROPERTY BOUNDARY TO BE MARKED WITH AN APPROVED TAPE TIED TO EXTEND THROUGH FINISHED SURFACE FOR EASY LOCATION BY BUILDERS.
- REFER TO PLUMBING CODE OF AUSTRALIA FOR ALL PIPE LAYING AND JOINTING REQUIREMENTS.

ALL MEASUREMENTS IN MILLIMETRES

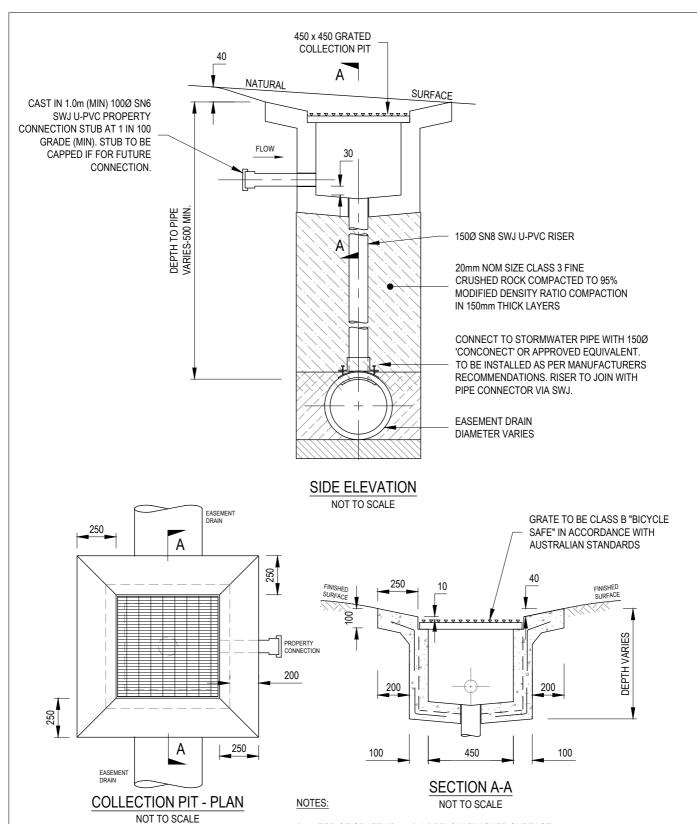
STREET DRAIN CONNECTION (45° TO PIPE WHERE COVER LIMITED)

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SD 516



- 1. TOP OF GRATE 40mm (min) BELOW FINISHED SURFACE.
- 2. DO NOT BOND GRATE TO CONCRETE TO ALLOW EASY ACCESS TO PIT.
- 3. CONCRETE TO BE SMOOTH TROWELLED FINISH.
- 4. GRATE FRAME TO BE OILED IF INSTALLED IN WET CONCRETE.
- 5. CONCRETE STRENGTH F'C = 25MPa. (MIN) AT 28 DAYS
- 6. SEAL UP AND MAKE GOOD PIPE CONNECTION / INSERTION TO PIT.
- 7. PROPERTY CONNECTION MIN 100Ø PIPE AS PER IDM CLAUSE 16.10.2 (PIPE DIAMETERS).

ALL MEASUREMENTS IN MILLIMETRES

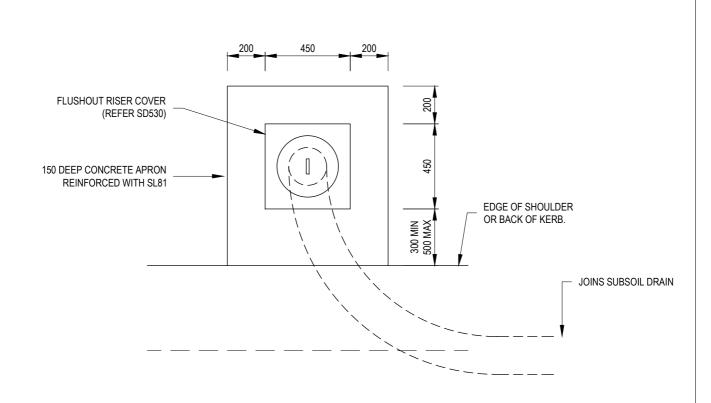
EASEMENT DRAIN CONNECTION

Infrastructure Design Manual Standard Drawings

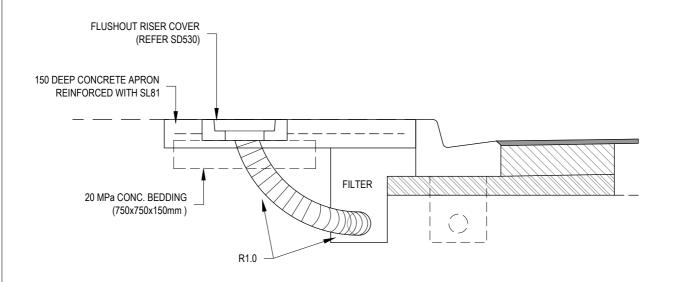
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SD 520



TYPICAL FLUSHOUT RISER PLAN



TYPICAL FLUSHOUT RISER SECTION

ALL MEASUREMENTS IN MILLIMETRES

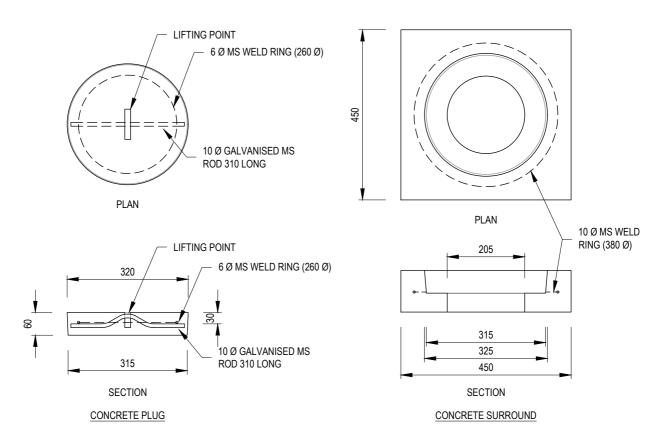
FLUSHOUT RISER DETAIL

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SD 525



FLUSHOUT RISER COVER DETAIL

ALL MEASUREMENTS IN MILLIMETRES

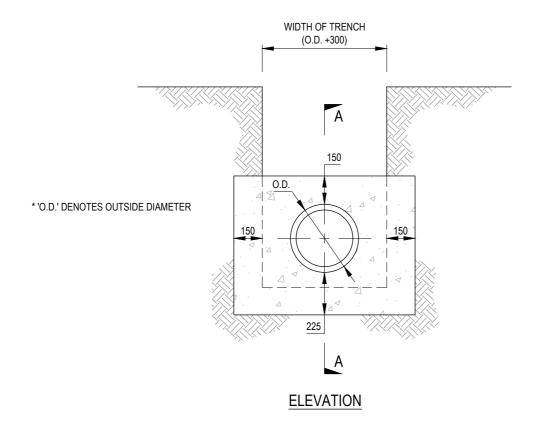
FLUSHOUT RISER COVER DETAIL

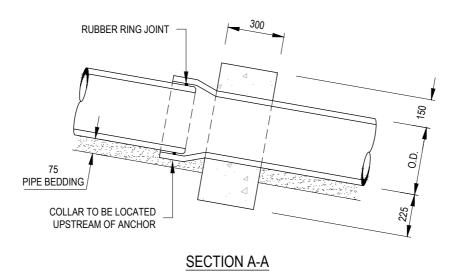
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SD 530





NOTES:

- 1. FOR USE ON PIPE AT GRADES OF 1 IN 10 OR GREATER.
- 2. TO BE CONSTRUCTED AT A MAXIMUM OF 10m CTRS.
- 3. CONCRETE STRENGTH TO BE 25MPa.

ALL MEASUREMENTS IN MILLIMETRES

DRAINAGE PIPE ANCHOR BLOCK

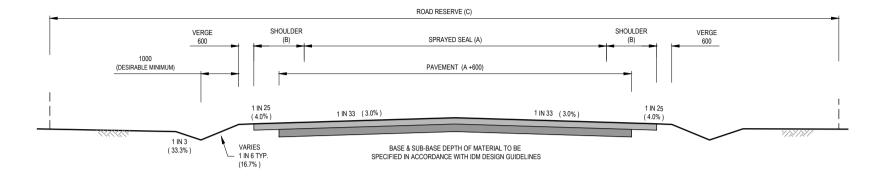
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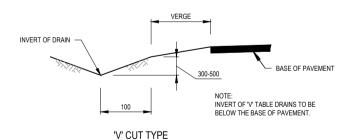
SD 535

FOR DIMENSIONS (A) (B) & (C) REFER TO IDM DESIGN GUIDELINES: CLAUSE 12.4 TABLE 6 - 'RURAL ROAD CHARACTERISTICS'.



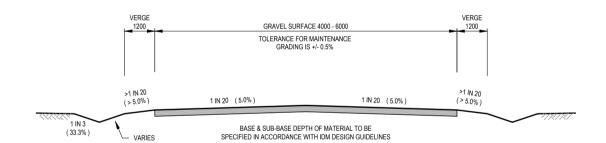
INVERT OF DRAIN 300-500 BASE OF PAVEMENT NOTE: INVERT OF 'TRAPEZOIDAL' TABLE DRAINS TO BE BELOW THE BASE OF PAVEMENT.

'TRAPEZOIDAL' CUT TYPE



TYPICAL OPEN TABLE DRAINS





TYPICAL CROSS SECTION GRAVEL ROAD

TYPICAL ROAD PROFILES RURAL

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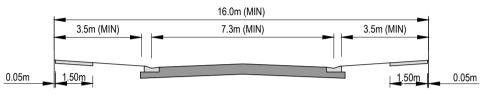
SD 600

NOT TO SCALE

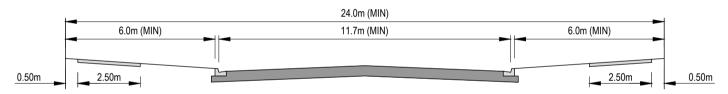
ALL MEASUREMENTS IN MILLIMETRES



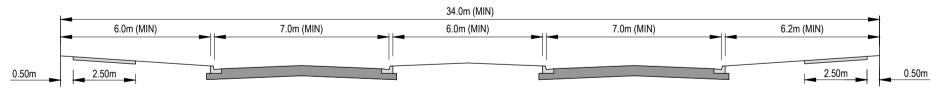
ACCESS PLACE



ACCESS STREET



COLLECTOR STREET - LEVEL 1



COLLECTOR STREET - LEVEL 2

NOTES:

- REFER TO IDM DESIGN GUIDELINES: SECTION 12.3, TABLE 2
 'URBAN ROAD / STREET CHARACTERISTICS'.
- PROFILES TO BE USED FOR LOW DENSITY RESIDENTIAL ZONES - RURAL ONLY. FOR LOW DENSITY RESIDENTIAL ZONES - URBAN SEE PROFILES FOR URBAN ROADS.

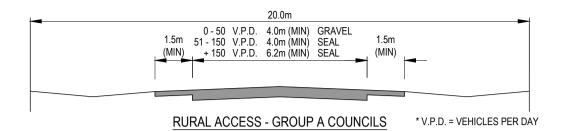
TYPICAL ROAD PROFILES ACCESS PLACE & STREET / COLLECTOR LEVEL 1 & 2

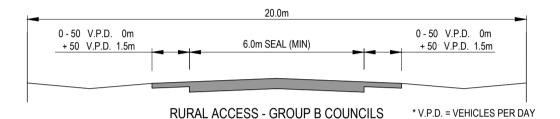
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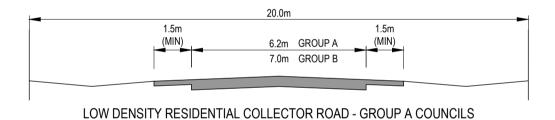
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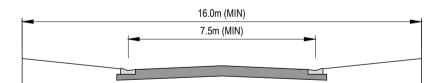
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LOW DENSITY RESIDENTIAL COLLECTOR ROAD - SOUTH GIPPSLAND

NOTES:

- REFER TO IDM DESIGN GUIDELINES: SECTION 12.4, TABLE 6 -'RURAL ROAD CHARACTERISTICS'.
- PROFILES TO BE USED FOR LOW DENSITY RESIDENTIAL ZONES

 RURAL ONLY. FOR LOW DENSITY RESIDENTIAL ZONES URBAN
 SEE PROFILES FOR URBAN ROADS.

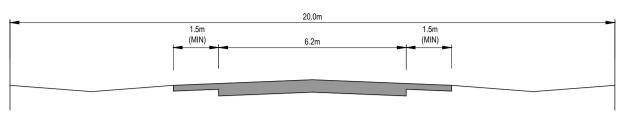
TYPICAL ROAD PROFILES LOW DENSITY RESIDENTIAL COLLECTOR / RURAL ACCESS

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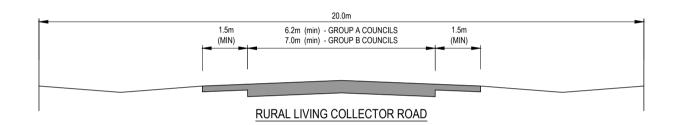
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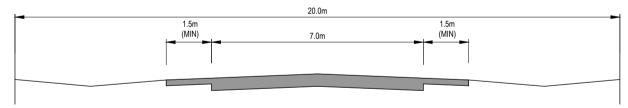
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RURAL LIVING ACCESS ROAD





LOW DENSITY RESIDENTIAL ACCESS ROAD

NOTES:

- REFER TO IDM DESIGN GUIDELINES: SECTION 12.4, TABLE 6 -'RURAL ROAD CHARACTERISTICS'.
- PROFILES TO BE USED FOR LOW DENSITY RESIDENTIAL
 ZONES RURAL ONLY. FOR LOW DENSITY RESIDENTIAL ZONES
 URBAN SEE PROFILES FOR URBAN ROADS.

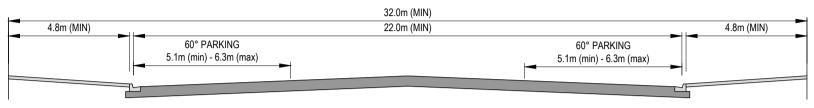
TYPICAL ROAD PROFILES RURAL LIVING ACCESS & COLLECTOR / LOW DENSITY RESIDENTIAL ACCESS

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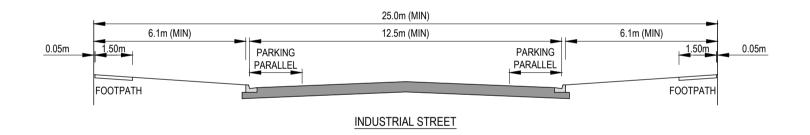


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COMMERCIAL STREET



NOTE:

REFER TO IDM DESIGN GUIDELINES: SECTION 12.3, TABLE 2 - 'URBAN ROAD / STREET CHARACTERISTICS'.

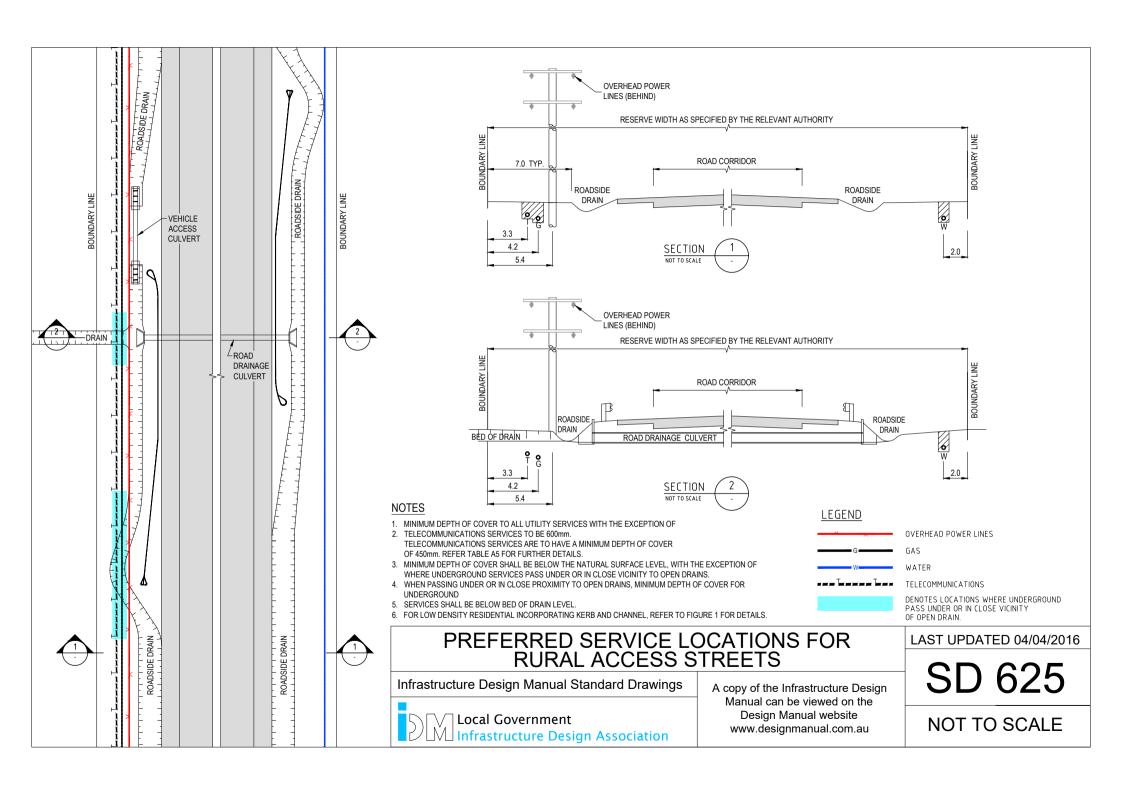
TYPICAL ROAD PROFILES COMMERCIAL STREET/ INDUSTRIAL STREET

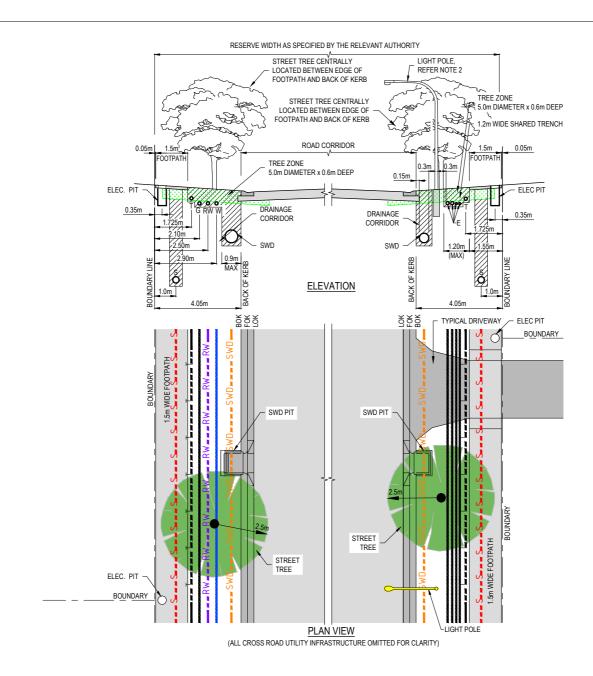
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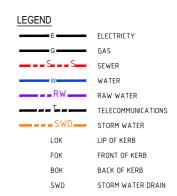
SD 620





NOTES

- MINIMUM DEPTH OF COVER TO ALL UTILITY SERVICES WITH THE EXCEPTION OF TELECOMMUNICATIONS SERVICES TO BE 600mm. TELECOMMUNICATIONS SERVICES ARE TO HAVE A MINIMUM DEPTH OF COVER OF 450mm. REFER TABLE A5 FOR FURTHER DETAILS.
- LIGHT POLE STANDARD OFFSET TO BE 800mm FROM BACK OF KERB TO FACE OF POLE UNLESS THERE IS A CONFLICT WITH UNDERGROUND SERVICES.
 THE PREFERRED SEWER LOCATION IS OUTSIDE OF THE ROAD
- THE PREFERRED SEWER LOCATION IS OUTSIDE OF THE ROAD RESERVE. WHERE IT IS NECESSARY FOR THE SEWER TO BE WITHIN THE ROAD RESERVE, IT SHALL BE LOCATED AS INDICATED ON THE CROSS SECTIONS.
- 4. WHERE STORM WATER ASSETS BELONG TO MELBOURNE WATER AND ARE GREATER THAN 750mm IN DIAMETER, CONTACT SHOULD BE MADE WITH MELBOURNE WATER TO DETERMINE ITS REQUIRED LOCATION IN RELATION TO STREET TREES.
- LOCATIONS OF STREET TREES, STREET LIGHTS, DRIVEWAYS AND PROPERTY BOUNDARIES ARE SHOWN INDICATIVELY ONLY.



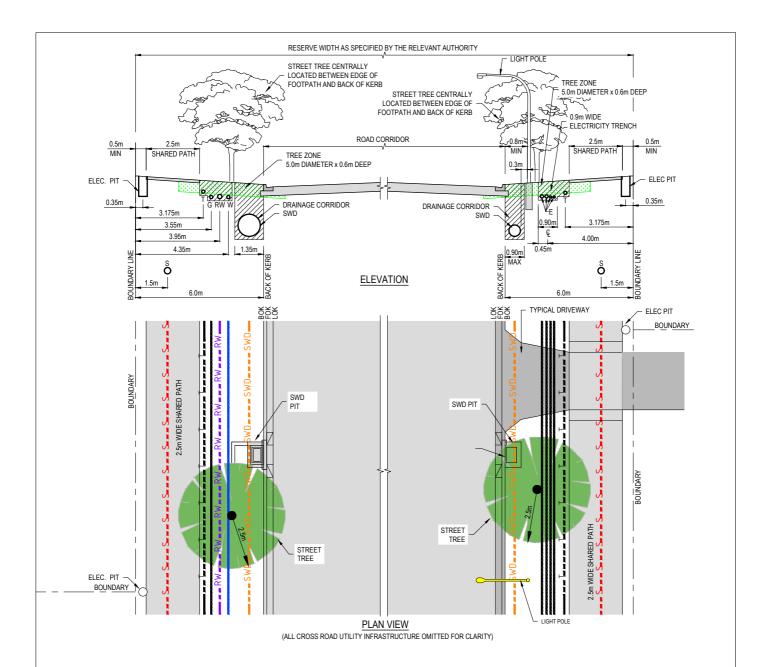
PREFERRED SERVICE LOCATIONS FOR RESIDENTIAL ACCESS STREETS

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<u>NOTES</u>

- MINIMUM DEPTH OF COVER TO ALL UTILITY SERVICES WITH THE EXCEPTION OF TELECOMMUNICATIONS SERVICES TO BE 600mm. TELECOMMUNICATIONS SERVICES ARE TO HAVE A MINIMUM DEPTH OF COVER OF 450mm. REFER TABLE AS FOR FURTHER DETAILS.
- 2. WHERE STORM WATER ASSETS BELONG TO MELBOURNE WATER AND ARE GREATER THAN 750mm IN DIAMETER. CONTACT SHOULD BE MADE WITH MELBOURNE WATER TO DETERMINE ITS REQUIRED LOCATION IN RELATION TO STREET TREES.
- LOCATIONS OF STREET TREES, STREET LIGHTS, DRIVEWAYS AND PROPERTY BOUNDARIES ARE SHOWN INDICATIVELY ONLY.



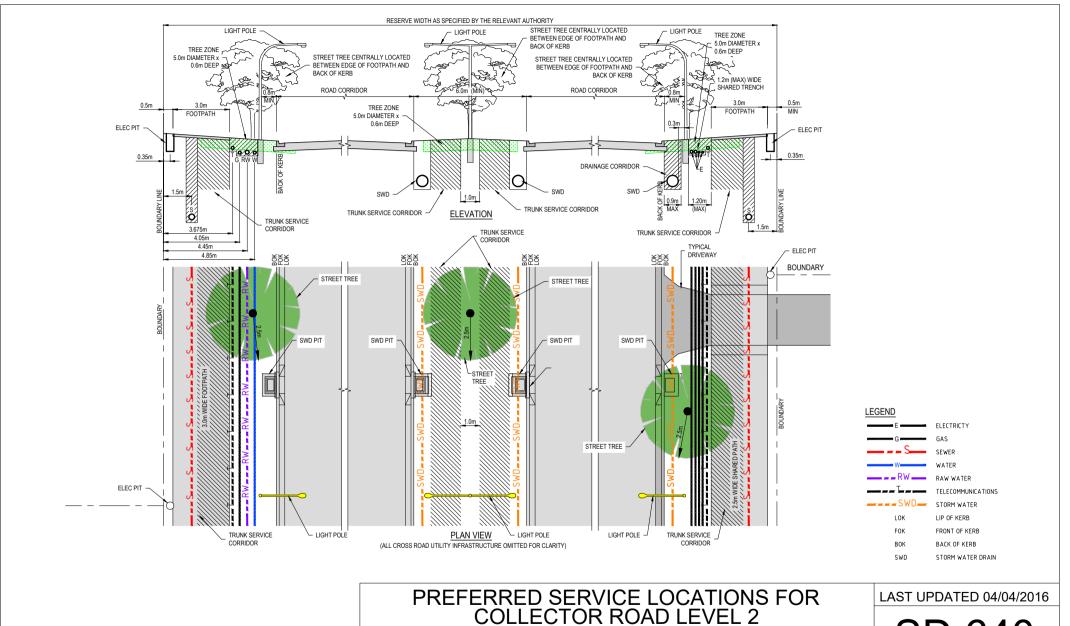
PREFERRED SERVICE LOCATIONS FOR COLLECTOR ROAD LEVEL 1

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