STANDARD DRAWING INDEX

DRAWING NUMBER	DESCRIPTION	DATE LAST MODIFIED
100	KERBS	
SD 100	TYPICAL RESIDENTIAL KERB PROFILES	06.11.18
SD 105	TYPICAL INDUSTRIAL KERB PROFILES	06.11.18
SD 110	KERB & WATERTABLE INSTALLATION ABUTTING EXISTING PAVEMENT	06.11.18
SD 115	STANDARD STORMWATER KERB OUTLET DETAILS - INSTALLED DURING CONSTRUCTION	06.11.18
SD 120	HEAVY DUTY STORMWATER KERB OUTLET DETAILS - EXISTING KERB	10.05.16
SD 125	KERB RAMP SPECIFICATIONS SHEET 1 OF 2	06.11.18
SD 130	KERB RAMP SPECIFICATIONS SHEET 2 OF 2	18.07.17
200	PAVEMENTS	
SD 200	TYPICAL PEDESTRIAN CROSSING ARRANGEMENT DETAIL	18.07.17
SD 205	TYPICAL CONCRETE FOOTPATH DETAIL SHEET 1 0F 2	06.11.18
SD 210	TYPICAL CONCRETE FOOTPATH DETAIL SHEET 2 0F 2	18.07.17
SD 215	TYPICAL HOT MIX ASPHALT FOOTPATH	18.07.17
SD 220	BLOCK PAVED FOOTPATH	06.11.18
SD 225	RETROFIT RESIDENTIAL VEHICLE CROSSING DETAIL	06.11.18
SD 235	VEHICLE BLOCK PAVED CROSSING DETAIL	06.11.18
SD 240	INDUSTRIAL VEHICLE CROSSING DETAIL	06.11.18
SD 245	VEHICLE CROSSING LONGITUDINAL SECTIONS	18.07.17
SD 250	TYPICAL SWALE DRAIN RESIDENTIAL VEHICLE CROSSING (RURAL ENTRANCE)	06.11.18
SD 255	TYPICAL SWALE DRAIN RESIDENTIAL VEHICLE CROSSING (URBAN ENTRANCE)	06.11.18
SD 260	TYPICAL SWALE DRAIN HEAVY VEHICLE CROSSING (RURAL ENTRANCE)	10.05.16
SD 265	TYPICAL PAVEMENT SUBSOIL DRAINAGE	06.11.18
SD 270	TYPICAL ROAD CROSSING TRENCH BACKFILL REQUIREMENTS	06.11.18
SD 275	TYPICAL BUS STOP DETAIL	18.07.17
300	PITS AND DRAINAGE STRUCTURES	
SD 300	STORMWATER PITS REINFORCEMENT DETAILS	06.11.18
SD 305	STORMWATER JUNCTION PIT	06.11.18
SD 310	STORMWATER DEPRESSED GRATED PIT	18.07.17
SD 315	STORMWATER INLET CATCH PIT / FIELD GULLY	18.07.17
SD 320	STORMWATER SIDE ENTRY PIT 900mm INLET	18.07.17
SD 325	STORMWATER SIDE ENTRY PIT AND LIDS WITH PRECAST LINTEL	06.11.18
SD 330	STORMWATER DOUBLE SIDE ENTRY PIT 1900mm INLET	18.07.17
SD 335	PRECAST SIDE ENTRY PIT INLET WITH GRATE INLINE	18.07.17
SD 340	OFFSET SIDE ENTRY PIT WITH 900mm INLET GRATE	06.11.18
SD 341	BANDAGE JOINT	06.11.18
SD 345	STANDARD HEADWALL FOR PIPES 300-375 DIAMETER	06.11.18
SD 350	STANDARD HEADWALL FOR PIPES 450-750 DIAMETER	06.11.18
SD 351	STANDARD HEADWALL FOR SINGLE PIPES 825-1800 DIAMETER	06.11.18
SD 355	STANDARD HEADWALL FOR TWIN PIPES 825-1800 DIAMETER	17.07.17

DRAWING NUMBER	DESCRIPTION	DATE LAST MODIFIED			
300	PITS AND DRAINAGE STRUCTURES CONTINUED.				
SD 365	CONCRETE ENDWALL FOR PIPES UP TO 300mmØ (WALKWAYS,PATHS AND TRACKS)	10.06.16			
SD 370	NATURAL LOOK CONCRETE AND BOULDER HEADWALL	10.06.16			
SD 375	STORMWATER CATCH DRAIN DETAILS	18.07.17			
SD 380	DRAIN STORMWATER ALLOTMENT TO KERB AND CHANNEL CONNECTION	18.07.17			
SD 385	STORMWATER ALLOTMENT DRAIN CONNECTION TO AUTHORITY PIPELINE	06.11.18			
SD 390	STORMWATER ALLOTMENT CONNECTION IN EASEMENT DETAIL	06.11.18			
SD 395	SUBSOIL DRAINAGE FLUSHOUT RISER DETAIL	10.05.16			
400	PITS AND DRAINAGE STRUCTURES				
SD 400	STORMWATER DRAINAGE PIPE ANCHOR BLOCK	18.07.17			
500	TYPICAL ROAD PROFILES				
SD 500	SD 500 TYPICAL ROAD SECTIONS				
SD 505	SD 505 TYPICAL ROAD SECTION LAYOUT				
SD 510	TYPICAL ROAD PROFILES RURAL LIVING & LOW DENSITY RESIDENTIAL AREAS	10.05.16			
SD 515	TYPICAL ROAD SECTIONS URBAN AREAS	18.07.17			
SD 520	TYPICAL ROAD PROFILES COMMERCIAL STREET / INDUSTRIAL STREET	18.07.17			
600	FLOODWAY DETAILS				
SD 600	FLOODWAY - GENERAL ARRANGEMENT LOW VOLUME RURAL ROADS	06.11.18			
SD 605	FLOODWAY - DETAILS LOW VOLUME RURAL ROADS	10.05.16			
700	COMMUNITY WASTE WATER MANAGEMENT SYSTEMS				
SD 700	TRENCH AND BACKFILL DETAILS	06.11.18			
SD 705	NEW CONNECTION / EXISTING OF MAINS	06.11.18			
SD 710	TYPICAL CONNECTION I.P. LOCATIONS	06.11.18			
SD 715	'Y' CONNECTION OFF AN EXISTING CONNECTION	06.11.18			
SD 720	SD 720 SEALING CAP DETAILS AND IN LINE FLUSHING POINT LOCATIONS				
SD 725	25 TYPICAL CONNECTION AND FLUSHING POINT COVER DETAILS				
SD 730	SD 730 FLUSHING POINT OR MAXIMUM DEPTH CONNECTIONS				
SD 735	SD 735 TERMINAL OF DRAIN LINE & FLUSH POINT				
SD 740	SD 740 TYPICAL CONCRETE ENCASEMENT OF DRAIN OR RISING MAIN THROUGH CREEKS				
SD 745	MAINTENANCE HOLE / ACCESS CHAMBER (MH / AC)	06.11.18			

WHILE ALL REASONABLE ATTEMPS HAVE BEEN MADE TO ENSURE THESE STANDARD DETAILS ARE FIT FOR PURPOSE, THEY SHOULD BE REVIEWED WITH SPECIFIC SITE CONDITIONS IN MIND. IF THE DETAIL IS TRANSFERRED INTO ANOTHER DRAWING WITH OR WITHOUT MODIFICATION, THE USER TAKES FULL RESPONSIBILITY FOR DESIGN CONSIDERATIONS SHOWN IN THE DETAIL.

G	MINOR AMENDMENTS	06.11.2018	AF	AF	MDH				
F	MINOR AMENDMENTS	18.07.2017	JZ	SGP	DSL				
E	ISSUED FOR REVIEW	07.07.2016	JZ	SGP	DSL				
D	ISSUED FOR REVIEW	05.07.2016	JZ	DL	DSL				
С	C ISSUED FOR REVIEW 10.06.2016 JZ DL DSL								
REV	DESCRIPTION	DATE	DES	DRW	APP				
THIS P	HIS PROJECT HAS BEEN ASSISTED BY THE LOCAL GOVERNMENT RESEARCH AND DEVELOPMENT SCHEME AND INSTITUTE OF PUBLIC WORKS ENGINEERING AUSTRALASIA								

INFRASTRUCTURE GUIDELINES (SA)

SHEET TITLE

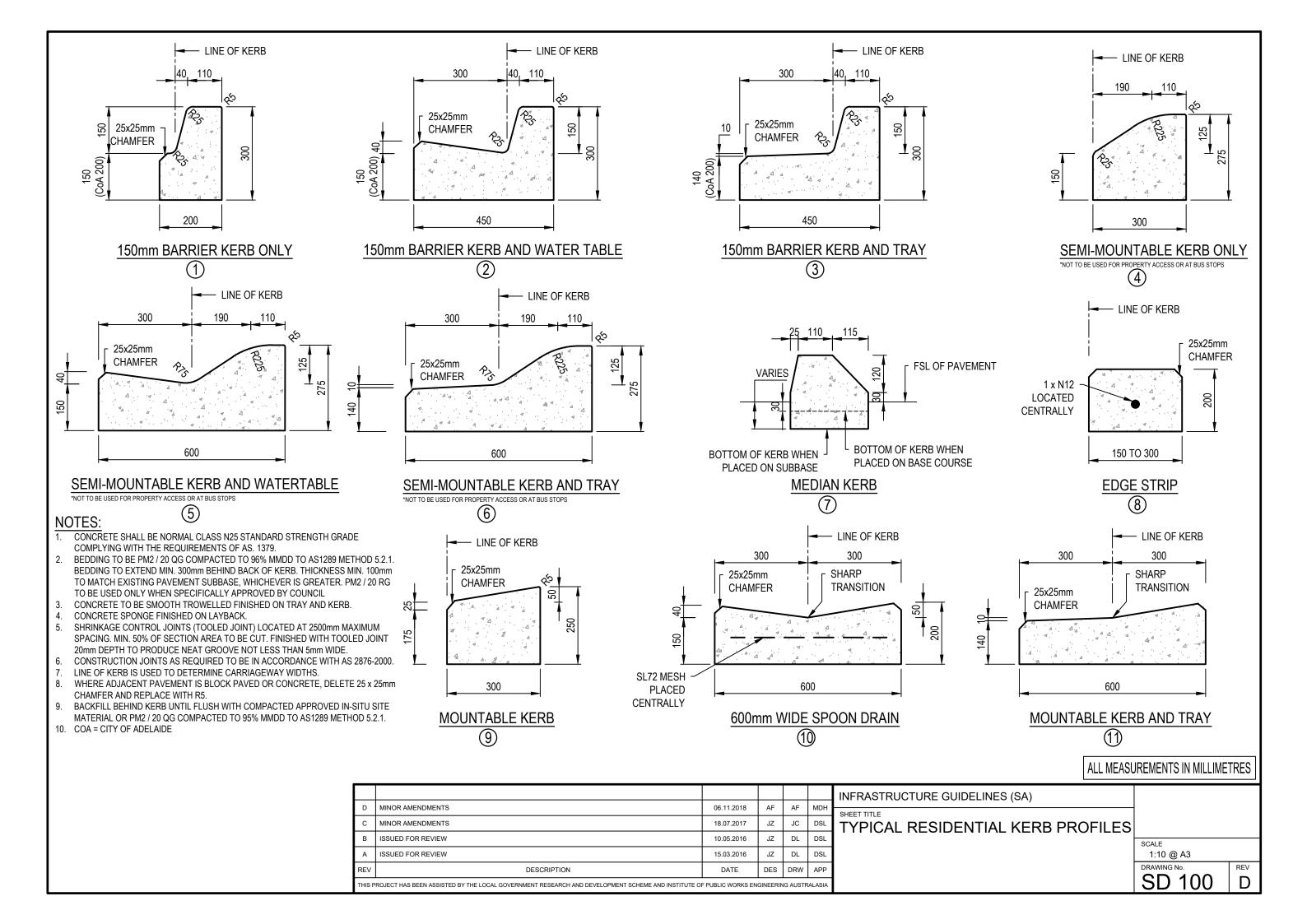
STANDARD DRAWING INDEX

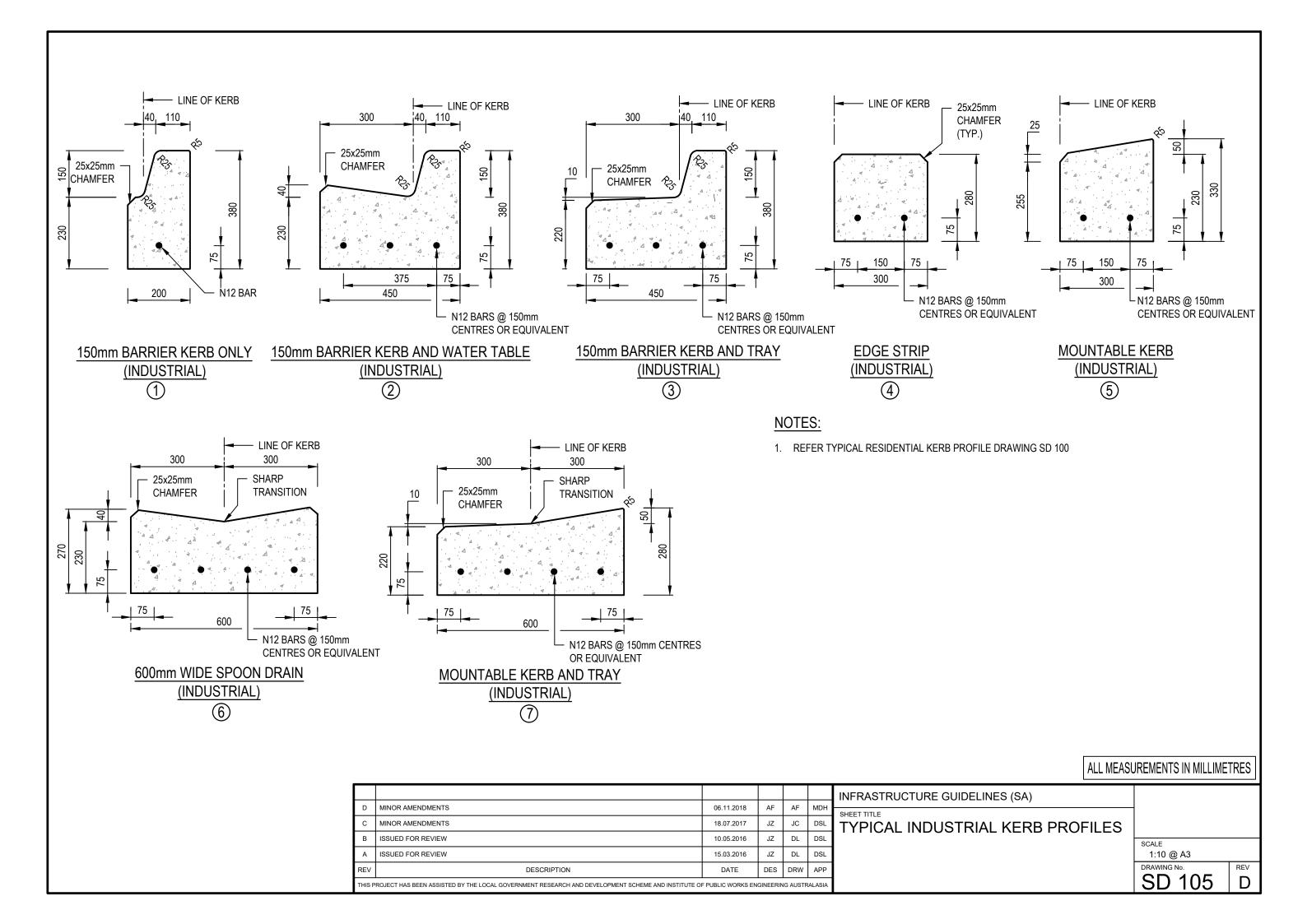
SCALE
N/A @ A3

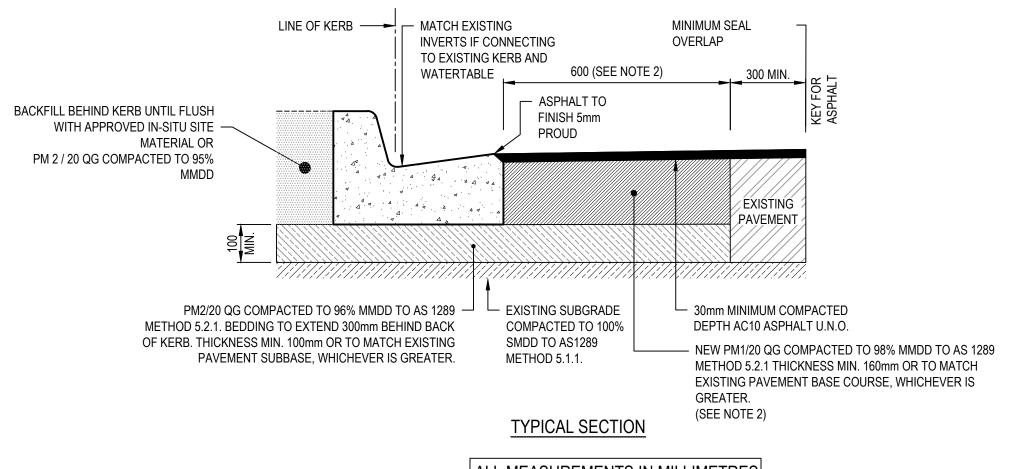
DRAWING No.

SD 000

G





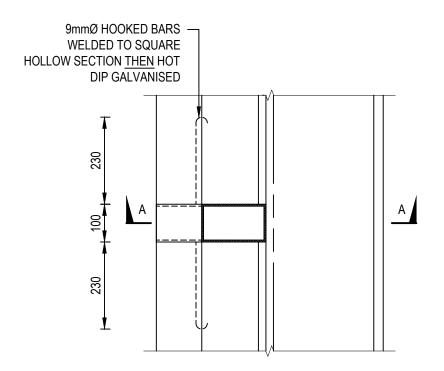


ALL MEASUREMENTS IN MILLIMETRES

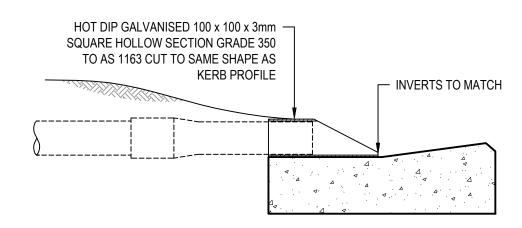
NOTES:

- 1. REFER TO SD 100 OR SD 105 FOR KERB DETAILS.
- FOR WIDTH MINIMUM OF 100 TO 350mm USE CONTROLLED LOW STRENGTH MATERIAL (CLSM) INFILL.
- 3. PM 2 / 20 RG TO BE USED INSTEAD OF PM 2 / 20 QG ONLY WHEN SPECIFICALLY APPROVED BY COUNCIL.
- 4. REFER PAVEMENT DESIGN FOR PAVEMENT THICKNESS

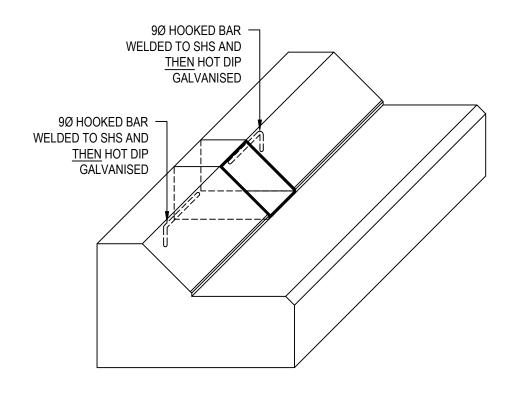
						INFRASTRUCTURE GUIDELINES (SA)		
D	MINOR AMENDMENTS	06.11.2018	AF	AF	MDH	SHEET TITLE		
С	MINOR AMENDMENTS	18.07.2017	JZ	JC	DSL	KERB & WATERTABLE INSTALLATION		
В	ISSUED FOR REVIEW	10.05.2016	JZ	DL	DSL		SCALE	
Α	ISSUED FOR REVIEW	15.03.2016	JZ	DL	DSL		1:10 @ A3	
REV	DESCRIPTION	DATE	DES	DRW	APP		DRAWING No.	REV
THIS	PROJECT HAS BEEN ASSISTED BY THE LOCAL GOVERNMENT RESEARCH AND DEVELOPMENT SCHEME AND INSTITUTE O	F PUBLIC WORKS EN	IGINEERIN	NG AUSTF	RALASIA		SD 110	D



RESIDENTIAL STORMWATER OUTLET CONNECTION



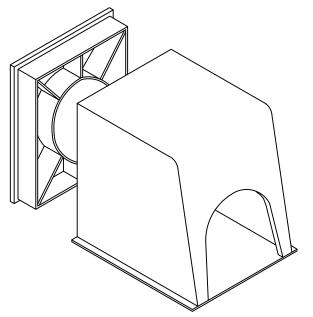
 $\frac{\text{SECTION}}{\text{A-A}}$



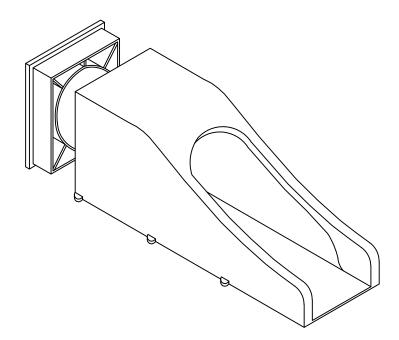
STORMWATER OUTLET DETAIL

PROVIDE ONE OUTLET PER 10m OF FRONTAGE
ON LOW SIDE OF LOT (UP TO 2 OUTLETS PER LOT)

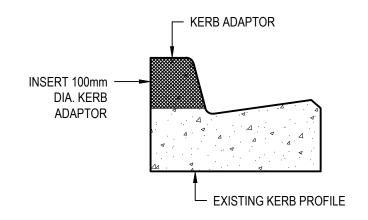
							INFRASTRUCTURE GUIDELINES (SA)		
	D	MINOR AMENDMENTS	06.11.2018	AF	AF	MDH	SHEET TITLE	1	
	С	MINOR AMENDMENTS	18.07.2017	JZ	JC	DSL	STANDARD STORMWATER KERB		
	В	ISSUED FOR REVIEW	10.05.2016	JZ	DL	DSL	OUTLET DETAILS - INSTALLED	SCALE	
	Α	ISSUED FOR REVIEW	15.03.2016	JZ	DL	DSL		1:10 @ A3	
R	EV	DESCRIPTION	DATE	DES	DRW	APP	DURING CONSTRUCTION	DRAWING No.	REV
TH	HIS P	ROJECT HAS BEEN ASSISTED BY THE LOCAL GOVERNMENT RESEARCH AND DEVELOPMENT SCHEME AND INSTITUTE OF	F PUBLIC WORKS EN	GINEERII	NG AUSTF	RALASIA		SD 115	D



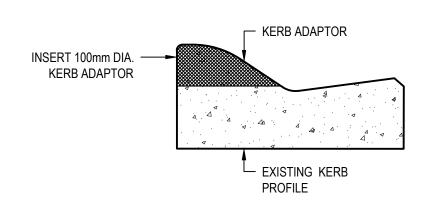
KERB ADAPTOR - UPRIGHT KERB



KERB ADAPTOR - SEMI MOUNTABLE KERB



UPRIGHT KERB WITH KERB ADAPTOR SECTIONAL VIEW

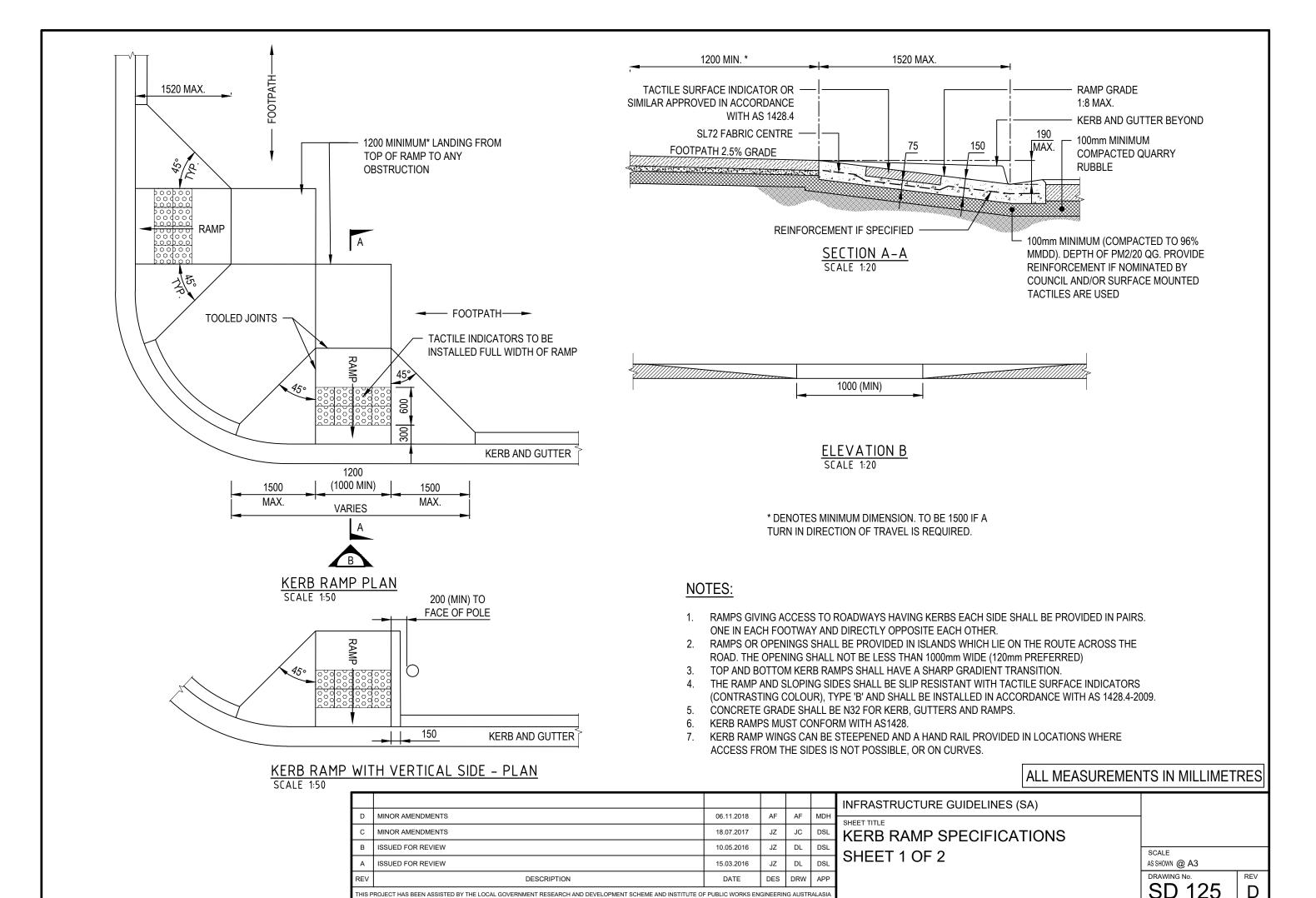


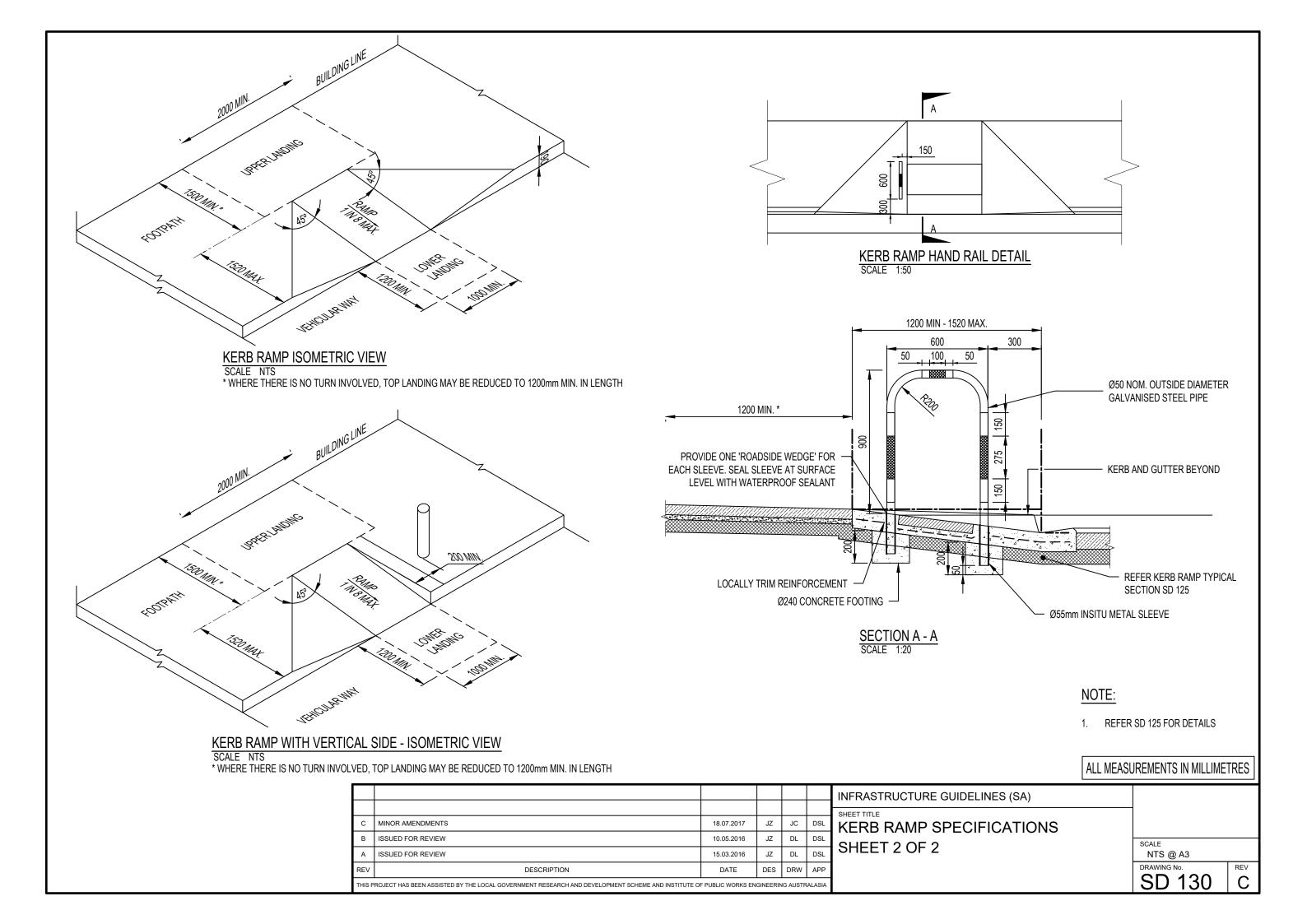
$\frac{\text{SEMI MOUNTABLE KERB WITH KERB ADAPTOR}}{\text{SECTIONAL VIEW}}$

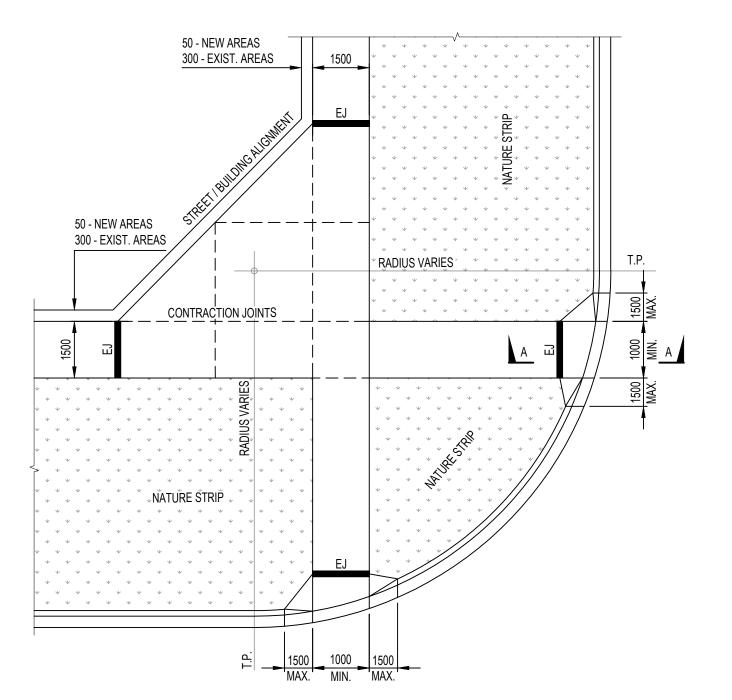
NOTES:

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

-						INFRASTRUCTURE GUIDELINES (SA)		
						SHEET TITLE STORMWATER KERB OUTLET DETAILS		
В	ISSUED FOR REVIEW	10.05.2016	JZ	DL	DSL	EVICTING KEDD	SCALE	
А	ISSUED FOR REVIEW	15.03.2016	JZ	DL	DSL	- EXISTING KERB	1:10 @ A3	
RE	DESCRIPTION	DATE	DES	DRW	APP		DRAWING No.	REV
THIS	PROJECT HAS BEEN ASSISTED BY THE LOCAL GOVERNMENT RESEARCH AND DEVELOPMENT SCHEME AND INSTITUTE OF	PUBLIC WORKS EN	GINEERIN	IG AUSTR	ALASIA		SD 120	B





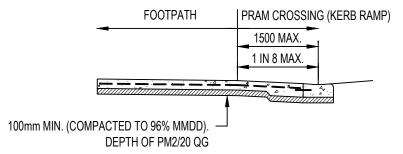


TYPICAL ARRANGEMENT PLAN SCALE 1:100



EXPANSION JOINT

CONTRACTION JOINTS



SECTION A-A

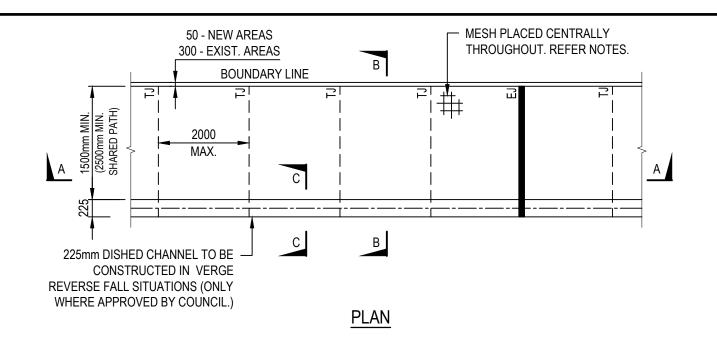
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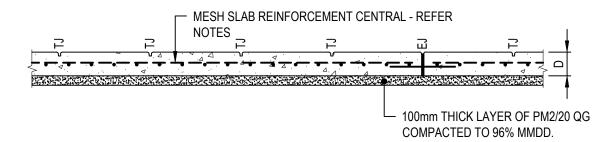
KERB RAMP DETAILS. REFER TO SD 125 AND SD 130.

NOTES:

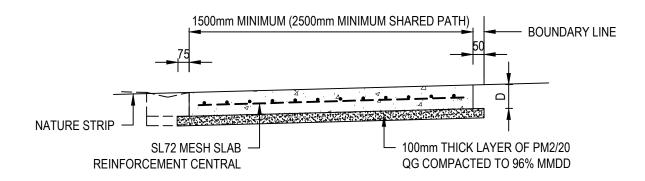
- 1. LOCATION OF CROSSINGS TO BE CASE BY CASE & TO BE APPROVED BY COUNCIL.
- 2. CROSSING GENERALLY TO BE LOCATED AT TANGENT POINTS.
- 3. CONCRETE TO BE SMOOTH TROWELLED FINISH ON TRAY.
- 4. CONCRETE TO BE FINE SOFT HAIR BROOM FINISH ON LAYBACK.
- 5. MINIMUM CONCRETE STRENGTH TO BE 32 MPA.
- BEDDING TO BE COMPACTED PM2/20 QG 100mm MIN. THICKNESS.
- 7. IF SPLAY IS NOT REQUIRED FOOTPATH IS TO CONTINUE THROUGH TO LAYBACKS.
- 8. TGI'S (TILES), WHERE REQUIRED, ARE TO BE TO BE INSTALLED TO AS1428.4

							INFRASTRUCTURE GUIDELINES (SA)		
ł	В	ISSUED FOR REVIEW	18.07.2017	JZ	DL	DSL	SHEET TITLE TYPICAL PEDESTRIAN CROSSING		
	В	ISSUED FOR REVIEW	10.05.2016	JZ	DL	DSI		SCALE	
	Α	ISSUED FOR REVIEW	15.03.2016	JZ	DL	DSL	ARRANGEMENT DETAIL	AS SHOWN @ A3	
ĺ	REV	DESCRIPTION	DATE	DES	DRW	APP		DRAWING No.	REV
	THIS P	PROJECT HAS BEEN ASSISTED BY THE LOCAL GOVERNMENT RESEARCH AND DEVELOPMENT SCHEME AND INSTITUTE OF	PUBLIC WORKS EN	GINEERIN	IG AUSTR	RALASIA		SD 200	$\mid C \mid$





SECTION A-A TYPICAL 125mm & 150mm FOOTPATH SECTION



SECTION B-B
TYPICAL 125mm & 150mm FOOTPATH SECTION

LEGEND:

EXPANSION JOINT @ 12m CTS. MAX.

__ _ TJ __ _

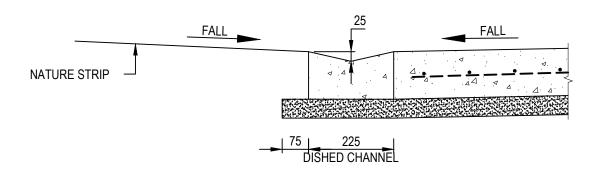
CONTRACTION/TOOLED JOINTS @ 2000mm CTS. MAX.

...

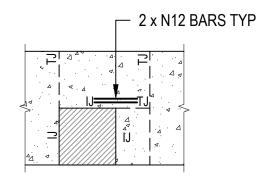
ISOLATION JOINT

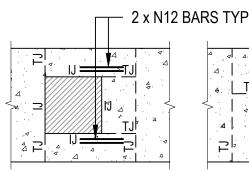
NOTES:

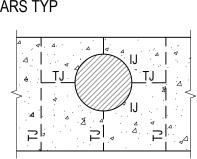
- 1. 'D' = DEPTH OF CONCRETE FOOTPATH
 - EXISTING RESIDENTIAL:
 NEW RESIDENTIAL:
 EXPOSED AGGREGATE
 D = 100mm 25MPa WITH SL62.
 D = 125mm 25MPa WITH SL72.
 D = 125mm 32MPa WITH SL72
 - COMMERCIAL/INDUSTRIAL: D = 150mm 32MPa WITH SL82 (TOP) 50 COVER.
- 2. REFER SD 210 FOR DETAILS OF JOINT TYPES.
- 3. ALIGNMENT OF FOOTPATH TO BE SHOWN ON DESIGN PLANS AND APPROVED BY COUNCIL.



SECTION C-C (ONLY TO BE USED BY COUNCIL APPROVAL)







PIT / ACCESS HOLE AT EDGE (PLAN)

PIT / ACCESS HOLE NOT AT EDGE (PLAN)

ALL MEASUREMENTS IN MILLIMETRES

D	MINOR AMENDMENTS	06.11.2018	AF	AF	MDH			
С	MINOR AMENDMENTS	18.07.2017	JZ	DL	DSL			
В	ISSUED FOR REVIEW	10.05.2016	JZ	DL	DSL			
Α	ISSUED FOR REVIEW	15.03.2016	JZ	DL	DSL			
REV	DESCRIPTION	DATE	DES	DRW	APP			
THIS P	THIS PROJECT HAS REEN ASSISTED BY THE LOCAL GOVERNMENT RESEARCH AND DEVELOPMENT SCHEME AND INSTITUTE OF PUBLIC WORKS ENGINEERING ALISTRAL ASIA							

INFRASTRUCTURE GUIDELINES (SA)

SHEET TITLE

TYPICAL CONCRETE FOOTPATH
DETAIL - SHEET 1 0F 2

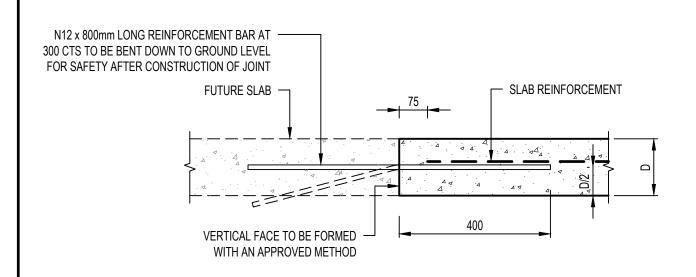
SCALE
NTS @ A3

DRAWING NO.

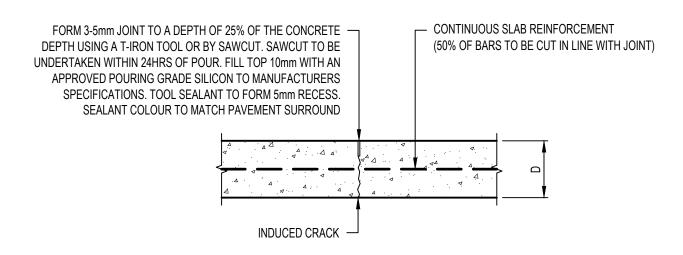
REV

SD 205

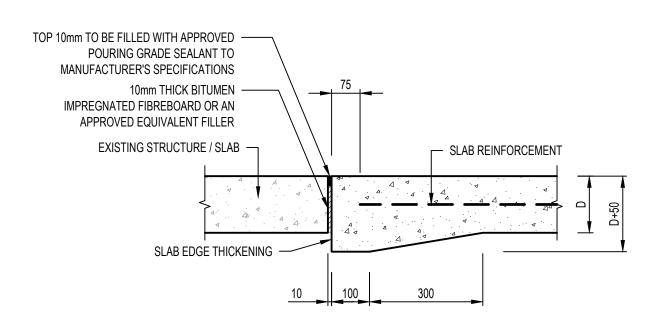
D



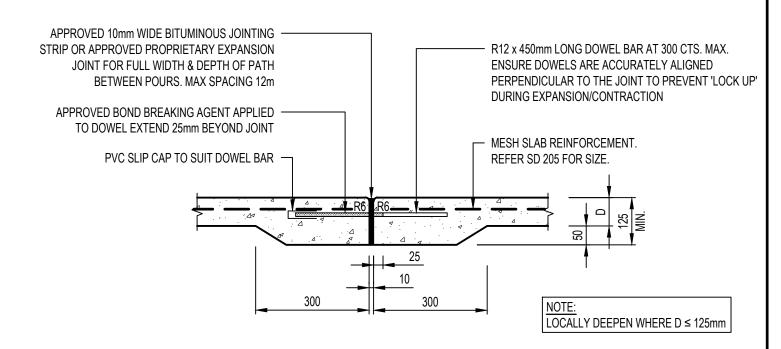
TYPICAL FUTURE CONSTRUCTION JOINT



TYPICAL CONTRACTION / TOOLED JOINT



TYPICAL ISOLATION JOINT SECTION

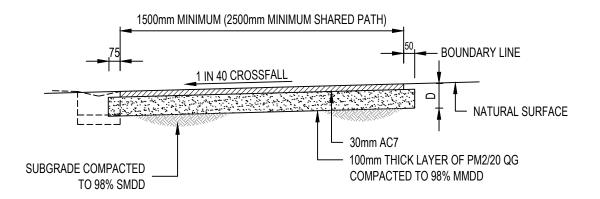


TYPICAL FOOTPATH EXPANSION JOINT - SECTION

NOTE:

1. PROPRIETARY EXPANSION JOINTS SUCH AS TRIPSTOP CAN BE USED WITH COUNCIL APPROVAL IN REACTIVE SOILS OR WHERE TREE ROOTS MAY AFFECT PATHS.

							INFRASTRUCTURE GUIDELINES (SA)		
							SHEET TITLE	-	
С		MINOR AMENDMENTS	18.07.2017	JZ	JC	DSL	TYPICAL CONCRETE FOOTPATH DETAIL		
В	В	ISSUED FOR REVIEW	10.05.2016	JZ	DL	DSL		SCALE	
Α	A	ISSUED FOR REVIEW	15.03.2016	JZ	DL	DSL		1:10 @ A3	
RE	EV	DESCRIPTION	DATE	DES	DRW	APP		DRAWING No.	REV
THI	IIS PI	ROJECT HAS BEEN ASSISTED BY THE LOCAL GOVERNMENT RESEARCH AND DEVELOPMENT SCHEME AND INSTITUTE OF	PUBLIC WORKS EN	GINEERI	IG AUSTF	ALASIA		SD 210	C



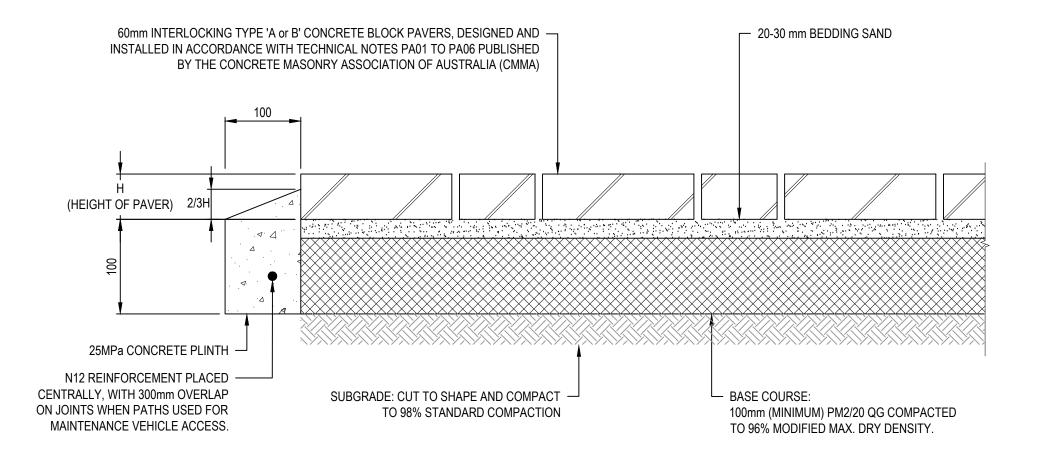
TYPICAL ASPHALT FOOTPATH SECTION

ALL MEASUREMENTS IN MILLIMETRES

NOTES:

1. 'D' = DEPTH OF ASPHALT FOOTPATH TYPICAL ASPHALT FOOTPATH DEPTH 'D'= 130mm TYPICAL 'D' MAY VARY DEPENDANT ON SUBGRADE CBR AND POSSIBLE MAINTENANCE OR EMERGENCY VEHICLE TRAFFIC ACCESS.

						INFRASTRUCTURE GUIDELINES (SA)		
						SHEET TITLE		
С	MINOR AMENDMENTS	18.07.2017	JZ	JC	DSL	TYPICAL HOT MIX ASPHALT FOOTPATH		
В	ISSUED FOR REVIEW	10.05.2016	JZ	DL	DSL		SCALE	
Α	ISSUED FOR REVIEW	15.03.2016	JZ	DL	DSL		NTS @ A3	
REV	DESCRIPTION	DATE	DES	DRW	APP		DRAWING No.	REV
THIS	PROJECT HAS BEEN ASSISTED BY THE LOCAL GOVERNMENT RESEARCH AND DEVELOPMENT SCHEME AND INSTITUTE OF	F PUBLIC WORKS EN	GINEERIN	IG AUSTF	RALASIA		SD 215	C

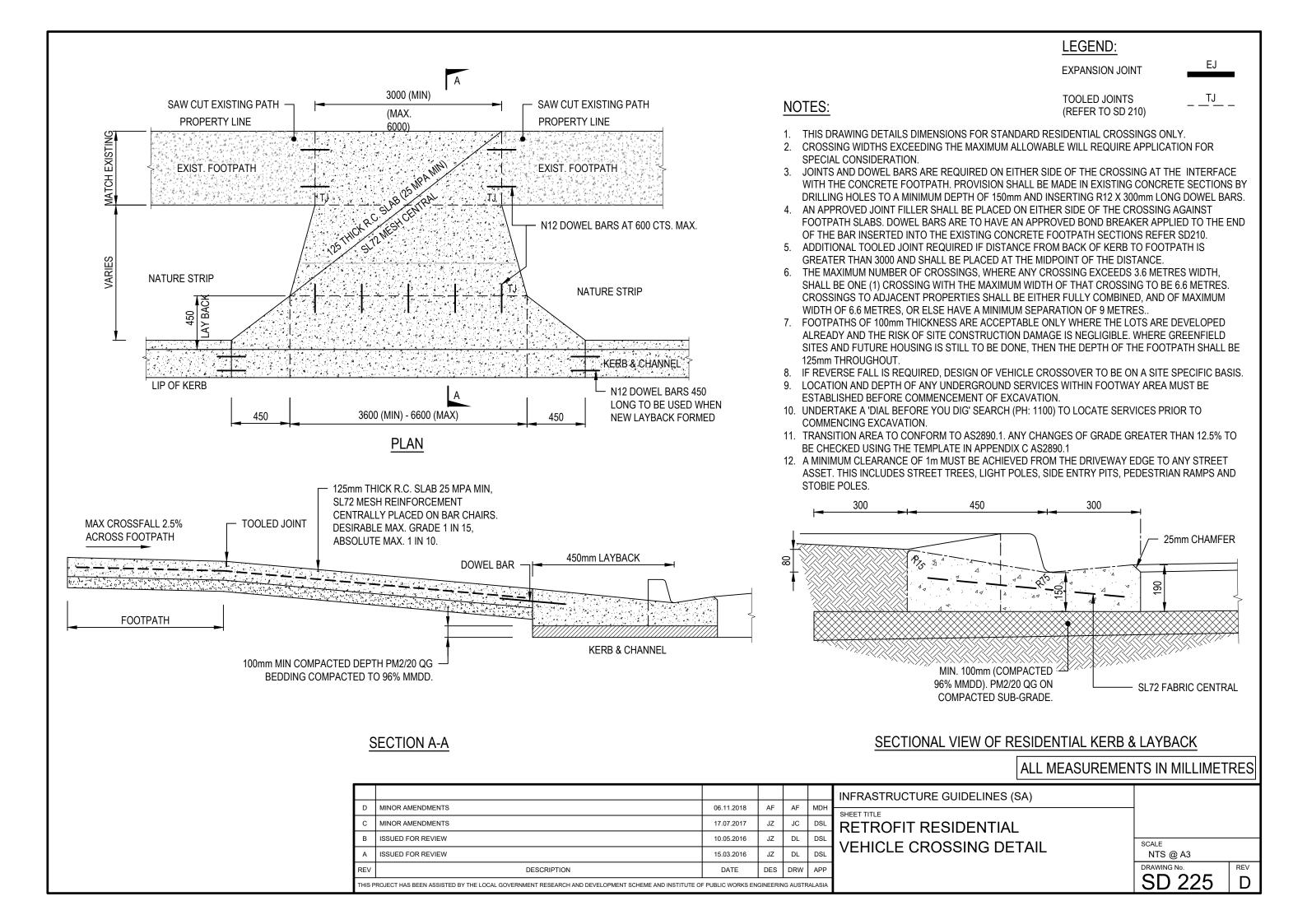


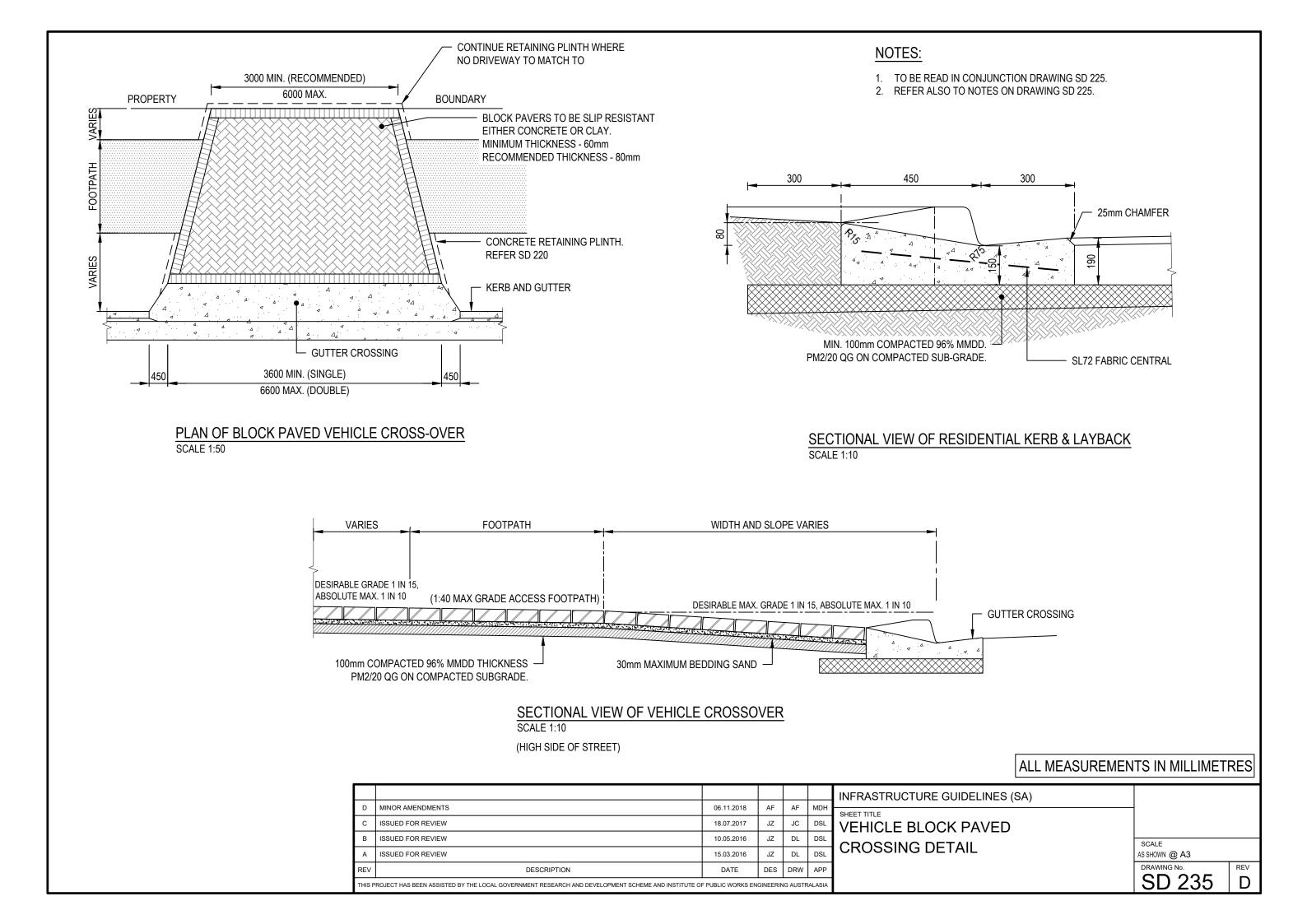
SECTION THROUGH EDGE OF FOOTPATH

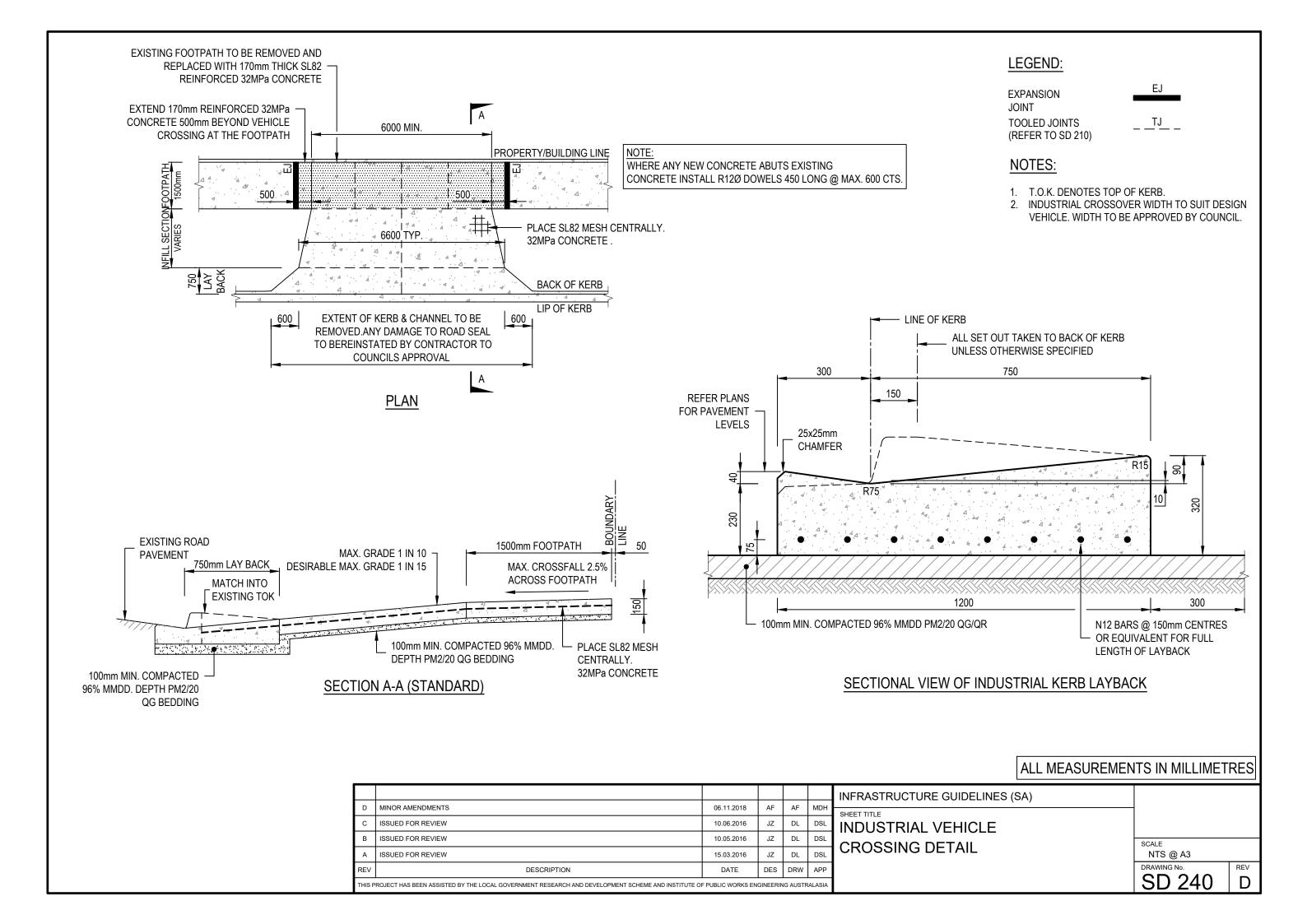
NOTES:

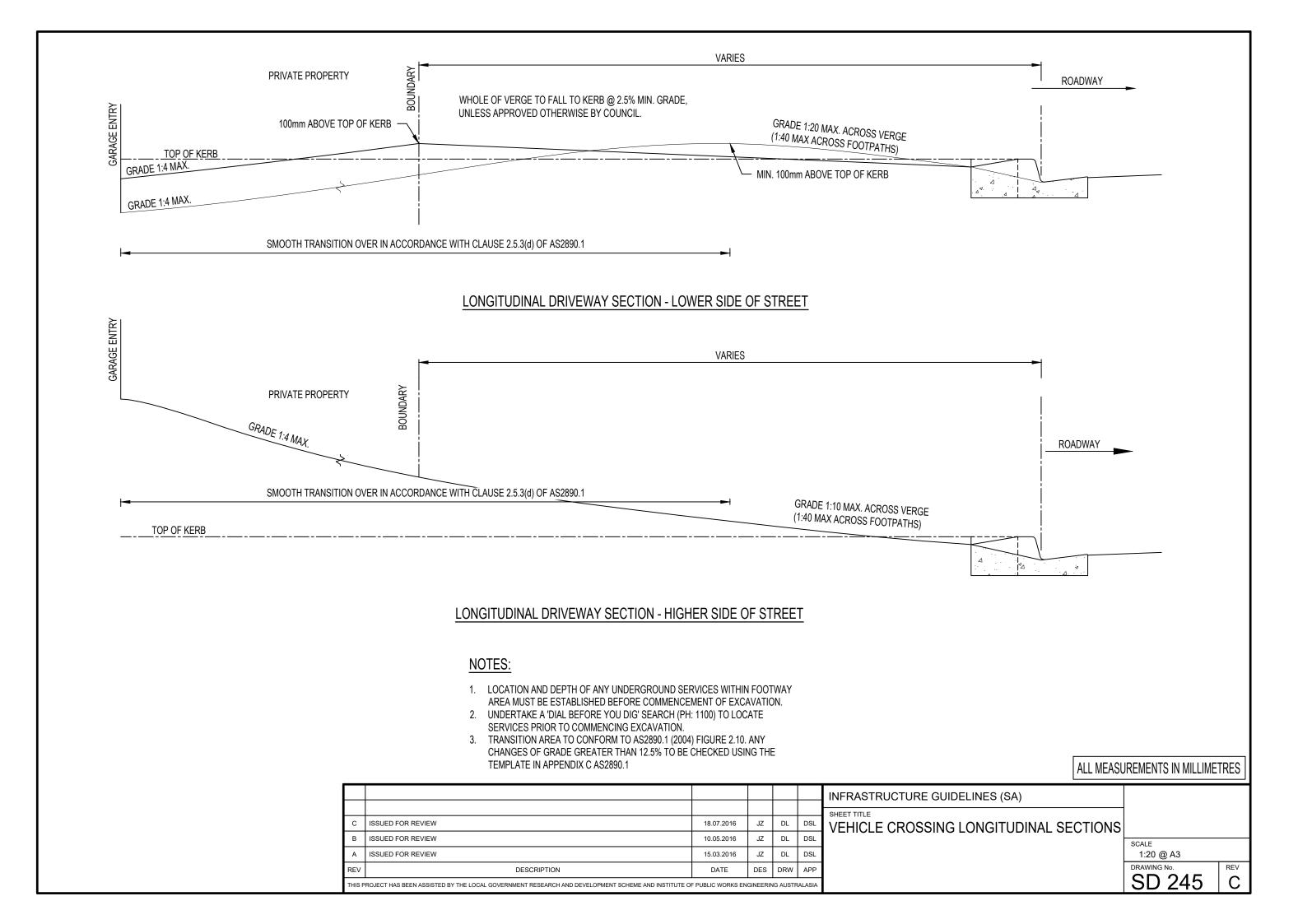
- 1. CONCRETE PLINTH TO BE USED WHERE NOT BACK OF KERB, OR BOTH SIDES OF FOOTPATH WHEN NOT BACK OF KERB OR AGAINST FIXED EDGE.
- 2. MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE RELEVANT PUBLICATION OF THE CONCRETE MASONRY ASSOCIATION OF AUSTRALIA AND SHALL BE IN ACCORDANCE WITH BEST TRADE PRACTICE.
- 3. PAVING BLOCKS TO BE LAID IN 90° HERRINGBONE PATTERN WITH HEADER COURSE UP TO THE CONCRETE PLINTH OR AS SPECIFIED.
- 4. BLOCKS SHALL BE CONCRETE INTERLOCKING. COLOUR AND STYLE TO BE NOMINATED ON DRAWING APPROVED BY COUNCIL. ALL JOINTS TO BE FILLED WITH SUPERSAND/OR PAVELOCK SAND.
- 5. ALL CUTTING OF PAVERS TO BE WITH MASONRY SAW ONLY.
- 6. CLAY PAVERS OR OTHER NON INTERLOCKING PAVERS ARE SUBJECT TO COUNCIL APPROVAL BASED ON PERFORMANCE REQUIREMENTS INCLUDING SLIP RESISTANCE AND STRENGTH.

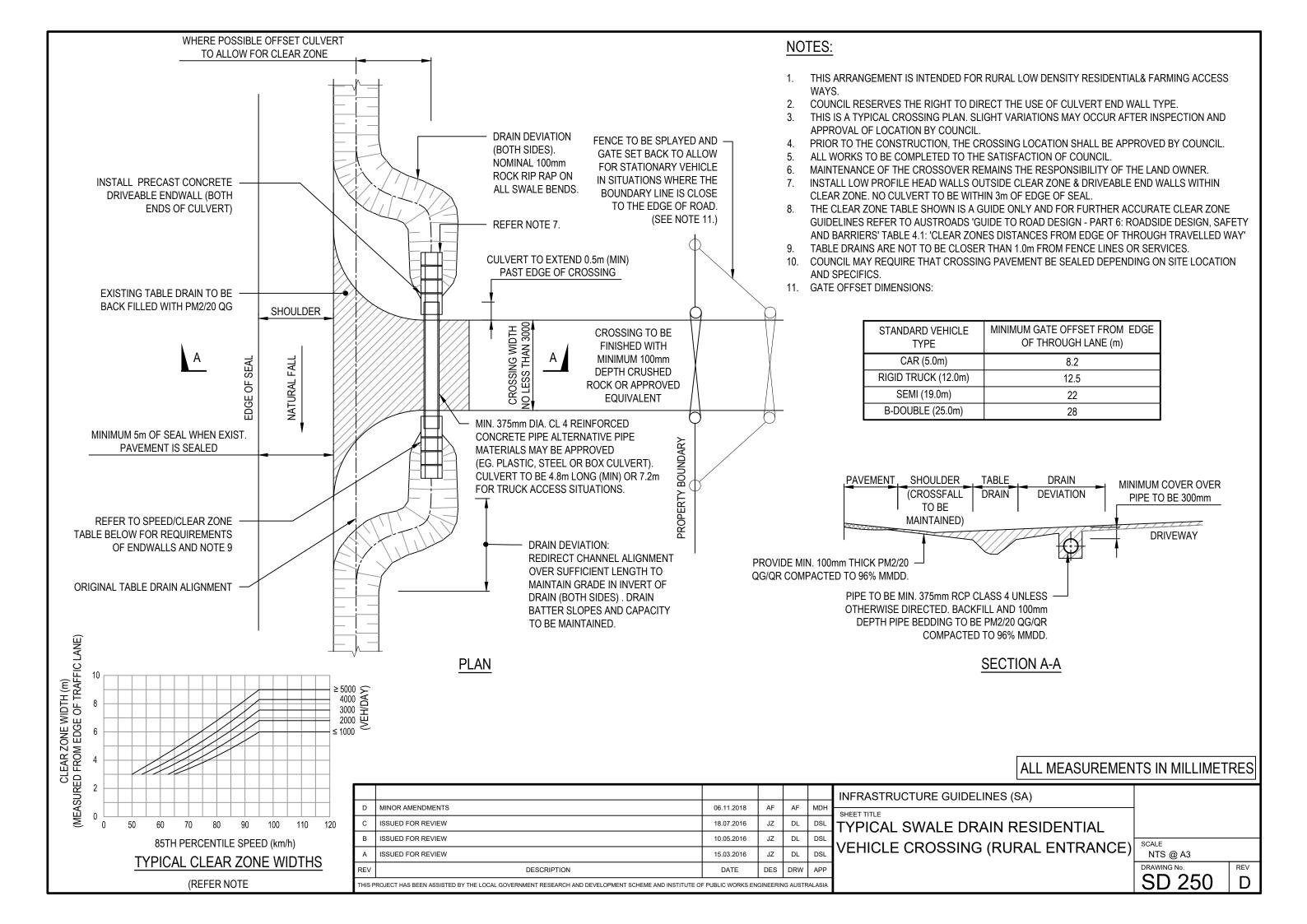
							INFRASTRUCTURE GUIDELINES (SA)		
	О	MINOR AMENDMENTS	06.11.2018	AF	AF	MDH	SHEET TITLE		
	С	MINOR AMENDMENTS	18.07.2017	JZ	JC	DSL	BLOCK PAVED FOOTPATH		
	В	ISSUED FOR REVIEW	10.05.2016	JZ	DL	DSL	BEGORI / WEB GO II / WIII	SCALE	
I	Α	ISSUED FOR REVIEW	15.03.2016	JZ	DL	DSL		1:5 @ A3	
l	REV	DESCRIPTION	DATE	DES	DRW	APP		DRAWING No.	REV
	THIS P	ROJECT HAS BEEN ASSISTED BY THE LOCAL GOVERNMENT RESEARCH AND DEVELOPMENT SCHEME AND INSTITUTE OF	PUBLIC WORKS EN	GINEERIN	IG AUSTR	RALASIA		SD 220	D

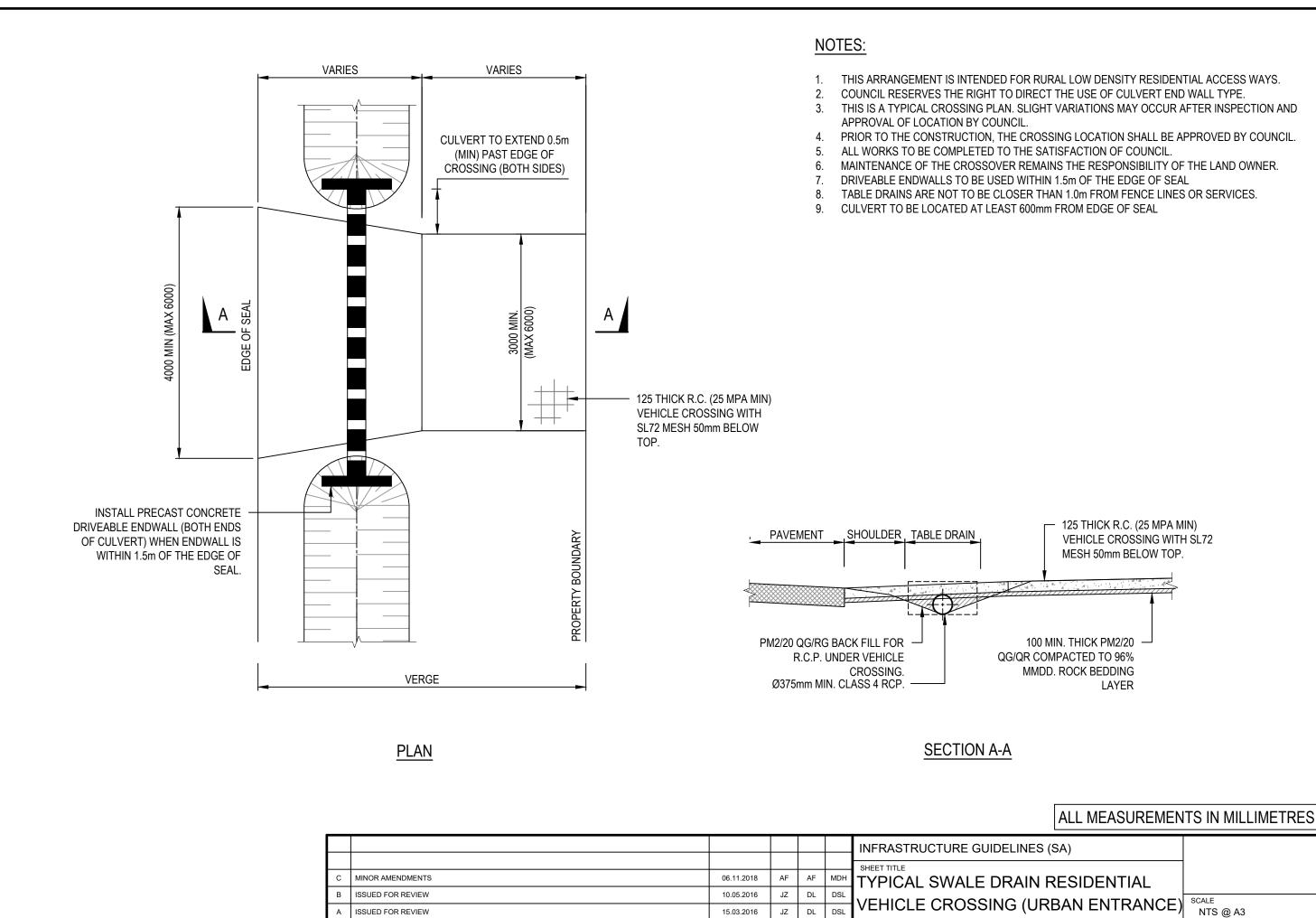












DES DRW

DATE

REV

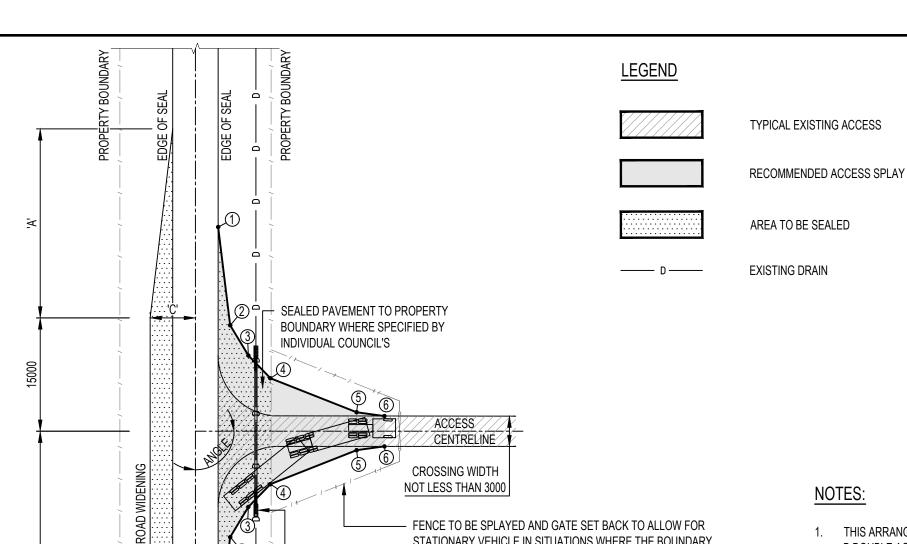
DESCRIPTION

THIS PROJECT HAS BEEN ASSISTED BY THE LOCAL GOVERNMENT RESEARCH AND DEVELOPMENT SCHEME AND INSTITUTE OF PUBLIC WORKS ENGINEERING AUSTRALAS

DRAWING No.

SD 255

REV



 \bigcirc

TABLE DRAIN
D

'W'

	SETOUT TABLE									
POINT No.	OFFSET DISTANCE FROM EDGE OF SEAL (m)	OFFSET DISTANCE FROM ACCESS CENTRELINE (m)								
1	0.0	27.0								
2	1.6	14.0								
3	4.0	10.0								
4	6.9	7.0								
5	18.3	2.5								
6	22	2.0								

	ROAD WIDENING												
A =	0.5 x SPEED (km/h) x W (m) 3.6 ANGLE: 70° 90° 110°												
B =													
D -	LENGTH:	40	35	30									
	ON STRAIGHT: 6.0r	n (MIN)											
C =	,	ON CURVE: 2x (3.0m + CORRESPONDING WIDENING FOR CURVE RADIUS)											
W =	FORMATION WIDE	NING (IF REC	QUIRED BY C	COUNCIL)									

- THIS ARRANGEMENT IS INTENDED FOR RURAL / FARMING ACCESS WAYS THAT REQUIRE SEMI / B DOUBLE ACCESS.
- PAVED AREAS TO BE A MINIMUM OF 150mm DEPTH COMPACTED GRAVEL. PAVEMENT AREAS AND TYPE TO BE APPROVED BY COUNCIL.
- 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.
- PRIOR TO THE CONSTRUCTION, THE CROSSING LOCATION SHALL BE APPROVED BY COUNCIL.
- ALL WORKS TO BE COMPLETED TO THE SATISFACTION OF COUNCIL.
- MAINTENANCE OF THE CROSSOVER REMAINS THE RESPONSIBILITY OF THE LAND OWNER.
- REFER SD 250 FOR CLEAR ZONE OFFSETS.
- DRIVEABLE ENDWALLS TO BE USED IN CLEARZONE.
- TABLE DRAINS ARE NOT TO BE CLOSER THAN 1.0m FROM FENCE LINES OR SERVICES.
- 11. COUNCIL MAY REQUIRE THAT CROSSING PAVEMENT BE SEALED DEPENDING ON SITE LOCATION AND SPECIFICS.
- 12. GATE OFFSET DIMENSIONS:

STANDARD VEHICLE TYPE	MINIMUM GATE OFFSET FROM EDGE OF THROUGH LANE (m)
SEMI (19.0m)	22
B-DOUBLE (25.0m)	28

ALL MEASUREMENTS IN MILLIMETRES

						Γ
						H
						ı
В	ISSUED FOR REVIEW	10.05.2016	JZ	DL	DSL	
Α	ISSUED FOR REVIEW	15.03.2016	JZ	DL	DSL	ı
EV	DESCRIPTION	DATE	DES	DRW	APP	ı
HIS P	PROJECT HAS BEEN ASSISTED BY THE LOCAL GOVERNMENT RESEARCH AND DEVELOPMENT SCHEME AND INSTITUTE OF	PUBLIC WORKS EN	GINEERIN	IG AUSTR	ALASIA	

STATIONARY VEHICLE IN SITUATIONS WHERE THE BOUNDARY

LINE IS CLOSE TO THE EDGE OF THE ROAD. (SEE NOTE 11.)

16m (MIN.) LENGTH OF 375Ø (MIN.) CLASS 4 RCP WITH A

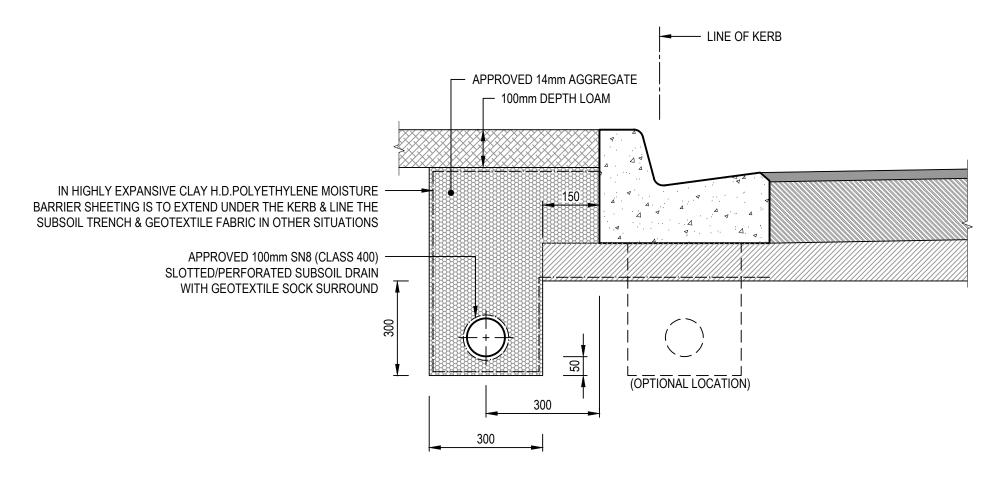
MINIMUM COVER OF 300mm AND DRIVABLE END WALLS

(BOTH ENDS) WHERE REQUIRED WITHIN CLEAR ZONE.

INFRASTRUCTURE GUIDELINES (SA)

TYPICAL SWALE DRAIN HEAVY VEHICLE **CROSSING (RURAL ENTRANCE)**

NTS @ A3 DRAWING No. SD 260 В



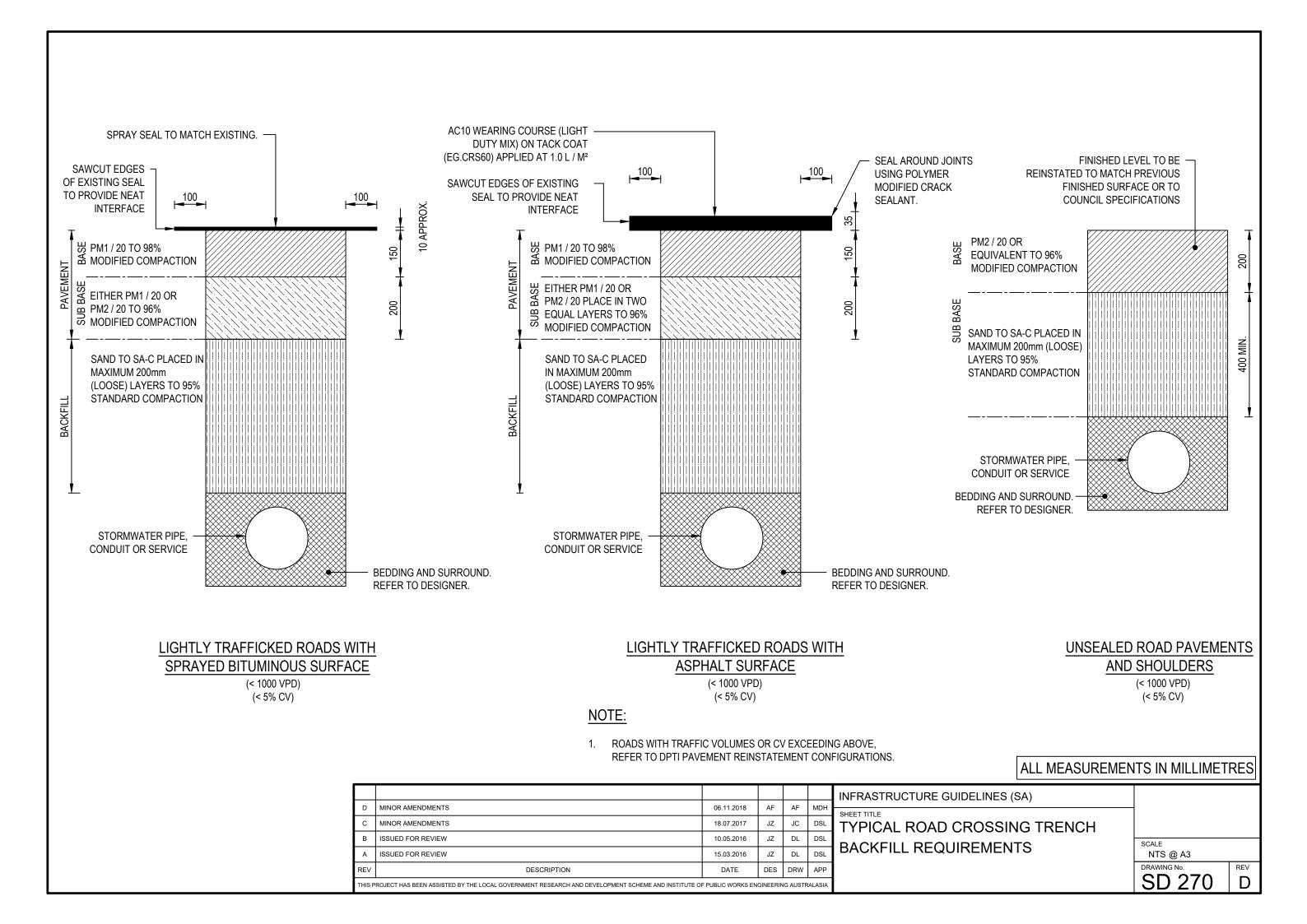
TYPICAL SECTION

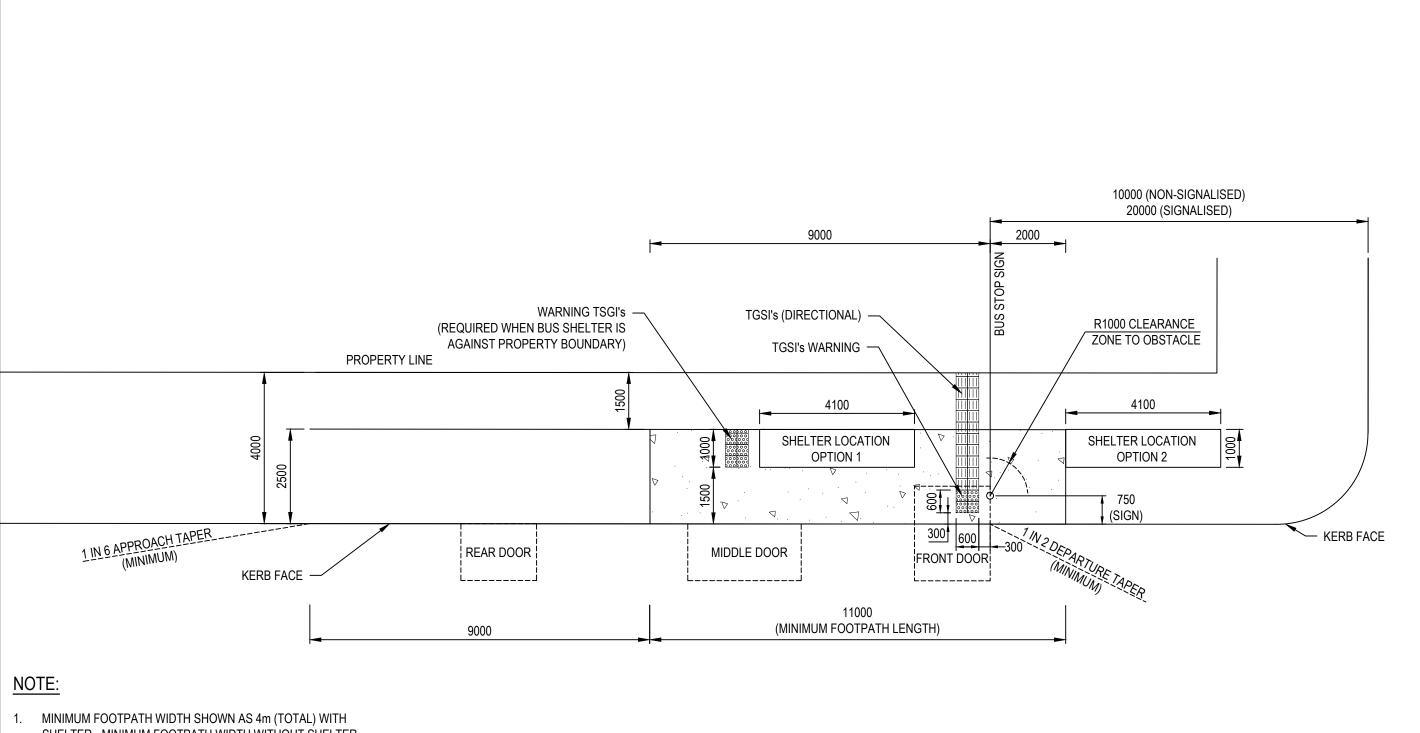
ALL MEASUREMENTS IN MILLIMETRES

NOTES:

- 1. THE DRAINS SHALL BE LAID ON A GRADE PARALLEL TO THE FINISHED SURFACE.
- 2. FOR FLUSHOUT RISER DETAILS REFER TO STANDARD DRAWINGS SD 395.
- 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 150mm OF THE UNDERLYING SUBGRADE. IF NECESSARY, THE CAPPING LAYER MAY HAVE TO BE THICKENED TO SATISFY THIS REQUIREMENT.

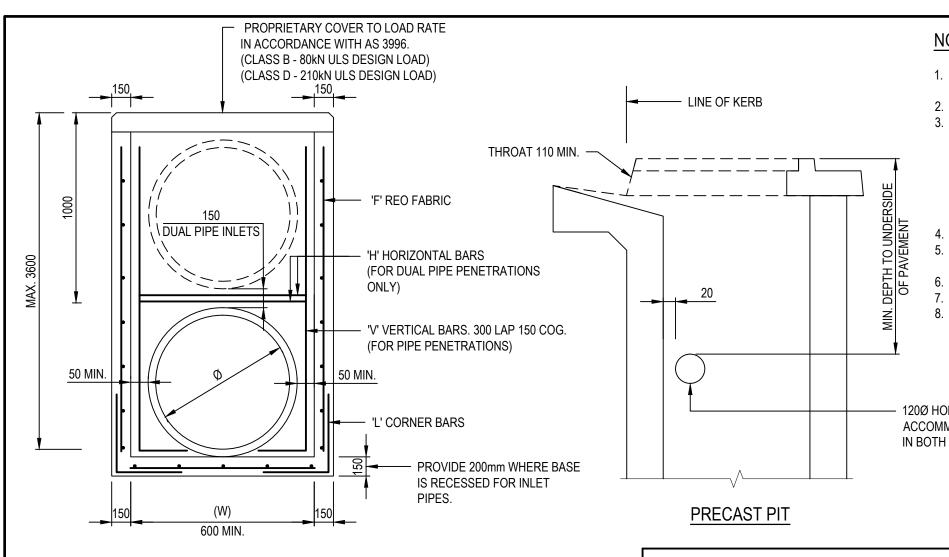
						INFRASTRUCTURE GUIDELINES (SA)		
						SHEET TITLE	1	
С	MINOR AMENDMENTS	06.11.2018	AF	AF	MDH	TYPICAL PAVEMENT		
В	ISSUED FOR REVIEW	10.05.2016	JZ		DSL		SCALE	
Α	ISSUED FOR REVIEW	15.03.2016	JZ	DL	DSL	SUBSOIL DRAINAGE	1:10 @ A3	
REV	DESCRIPTION	DATE	DES	DRW	APP		DRAWING No.	REV
THIS	PROJECT HAS BEEN ASSISTED BY THE LOCAL GOVERNMENT RESEARCH AND DEVELOPMENT SCHEME AND INSTITUTE C	F PUBLIC WORKS EN	IGINEERIN	NG AUSTF	RALASIA		SD 265	C





1. MINIMUM FOOTPATH WIDTH SHOWN AS 4m (TOTAL) WITH SHELTER - MINIMUM FOOTPATH WIDTH WITHOUT SHELTER REDUCED TO 2.5m.

						INFRASTRUCTURE GUIDELINES (SA)	
						SHEET TITLE	
						TYPICAL BUS STOP DETAIL	
Α	ISSUED FOR REVIEW	18.07.2017	JZ	JTC	DSL		NTS @ A3
REV	DESCRIPTION	DATE	DES	DRW	APP		DRAWING No.
THIS P	ROJECT HAS BEEN ASSISTED BY THE LOCAL GOVERNMENT RESEARCH AND DEVELOPMENT SCHEME AND INSTITUTE O	F PUBLIC WORKS EN	GINEERIN	NG AUSTF	RALASIA		SD 2/5

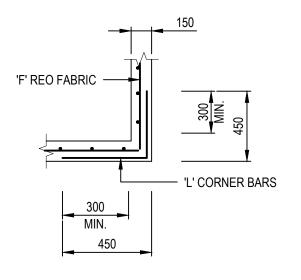


NOTES:

- 1. PIT REINFORCEMENT SHALL HAVE 300mm MIN. LAPS. CLEAR COVER TO BE 50mm MIN. CORNER RETURN REINFORCEMENT MAY BE FABRIC OR EQUIVALENT BARS.
- 2. FOR TOP OF PIT DETAILS, REFER TO RELEVANT STANDARD DRAWINGS.
- 3. PRECAST PITS WITH THINNER WALLS AND LESS STEEL OR FIBRE REINFORCED PITS 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 APPROPRIATE SURCHARGE LIVE LOAD CLASS
 - HYDROSTATIC PRESSURE
 - COMPACTION PRESSURE (25kPa MIN.)
 - VEHICLE LOADS DESIGN VEHICLE LOAD
- SUBSURFACE DRAIN HOLES TO BE SEALED IF NOT USED.
- 5. ANY CONCRETE FORMWORK, REINFORCEMENT, POURING AND CURING SHALL COMPLY WITH AS 3600 AND THE ASSOCIATED CODES.
- 6. CONCRETE STRENGTH F'C 32 MPa. (MIN.) AT 28 DAYS. SLUMP TO BE 80mm.
- 7. ALL RL FABRIC MAIN BARS SHOULD BE PLACED HORIZONTALLY.
- VEHICLE LOADS TO DESIGN LOAD CLASS

- 120Ø HOLE IN SIDE WALLS TO ACCOMMODATE PAVEMENT DRAINS IN BOTH SIDES. (IF REQUIRED)

TYPICAL PIT DETAIL



150mm CORNER DETAIL

		REINFO	DRCEMENT DETA	AILS	
LOAD CLASS	MAX WIDTH (W) (mm)	'F' FABRIC	'H' HORIZONTAL BARS	'V' VERTICAL BARS	'L' CORNER BARS
В	600	SL82 (c)	2/N10	1/N10	N10 @ 300 (c)
В	900	SL82 (c)	2/N10	1/N10	N10 @ 300 (c)
В	1200	SL92 (c)	2/N12	1/N12	N10 @ 200 (c)
В	1500	SL92 (50 INTERNAL COVER)	2/N12	1/N16	N10 @ 200 (c) (50 INTERNAL COVER)
В	1800	SL92 (50 INTERNAL COVER)	2/N16	1/N16	N12 @ 200 (c) (50 INTERNAL COVER)
D	600	SL82 (c)	2/N10	1/N10	N10 @ 300 (c)
D	900	SL92 (50 INTERNAL COVER)	2/N10	1/N10	N10 @ 200 (c) (50 INTERNAL COVER)
D	1200	RL818 (50 INTERNAL COVER)	2/N12	1/N12	N12 @ 200 (c) (50 INTERNAL COVER)
D	1500	RL118 (50 INTERNAL COVER)	2/N12	1/N16	N12 @ 200 (c) (50 INTERNAL COVER)
D	1800	RL1218 (50 INTERNAL COVER)	2/N16	1/N16	N12 @ 200 (c) (50 INTERNAL COVER)

NOTE:

- PROVIDE REINFORCEMENT AS PER TABLE FOR WALL WITH CORRESPONDING WIDTH (W).
- 2. IF ADJACENT WALLS HAVE DIFFERENT WIDTHS, ADOPT 'L' CORNER BARS CORRESPONDING TO HIGHER WIDTH.

ALL MEASUREMENTS IN MILLIMETRES

D	MINOR AMENDMENTS	06.11.2018	AF	AF	MDH
С	MINOR AMENDMENTS	18.07.2017	JZ	JC	DSL
В	ISSUED FOR REVIEW	10.05.2016	JZ	DL	DSL
Α	ISSUED FOR REVIEW	15.03.2016	RJF	DL	DSL
REV	DESCRIPTION	DATE	DES	DRW	APP
THIS P	PROJECT HAS BEEN ASSISTED BY THE LOCAL GOVERNMENT RESEARCH AND DEVELOPMENT SCHEME AND INSTITUTE OF	F PUBLIC WORKS EN	GINEERIN	IG AUSTR	ALASIA

INFRASTRUCTURE GUIDELINES (SA)

SHEET TITLE

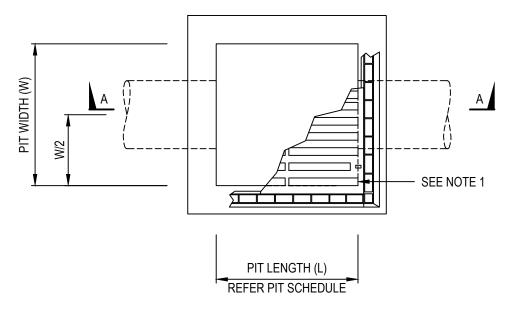
STORMWATER PITS REINFORCEMENT DETAILS

SCALE
NTS @ A3

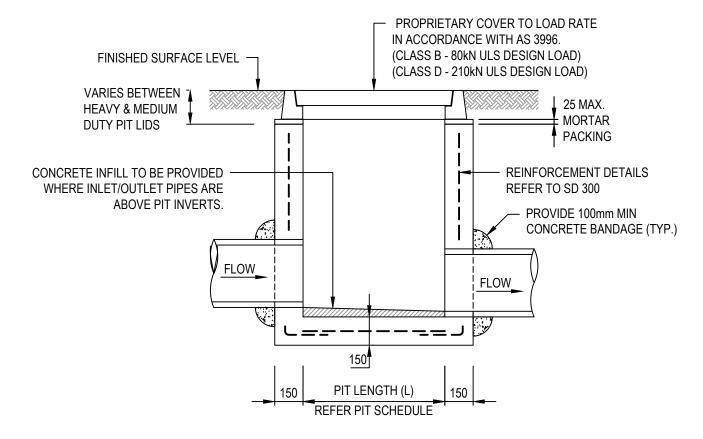
DRAWING No.

SD 300

D



PLAN



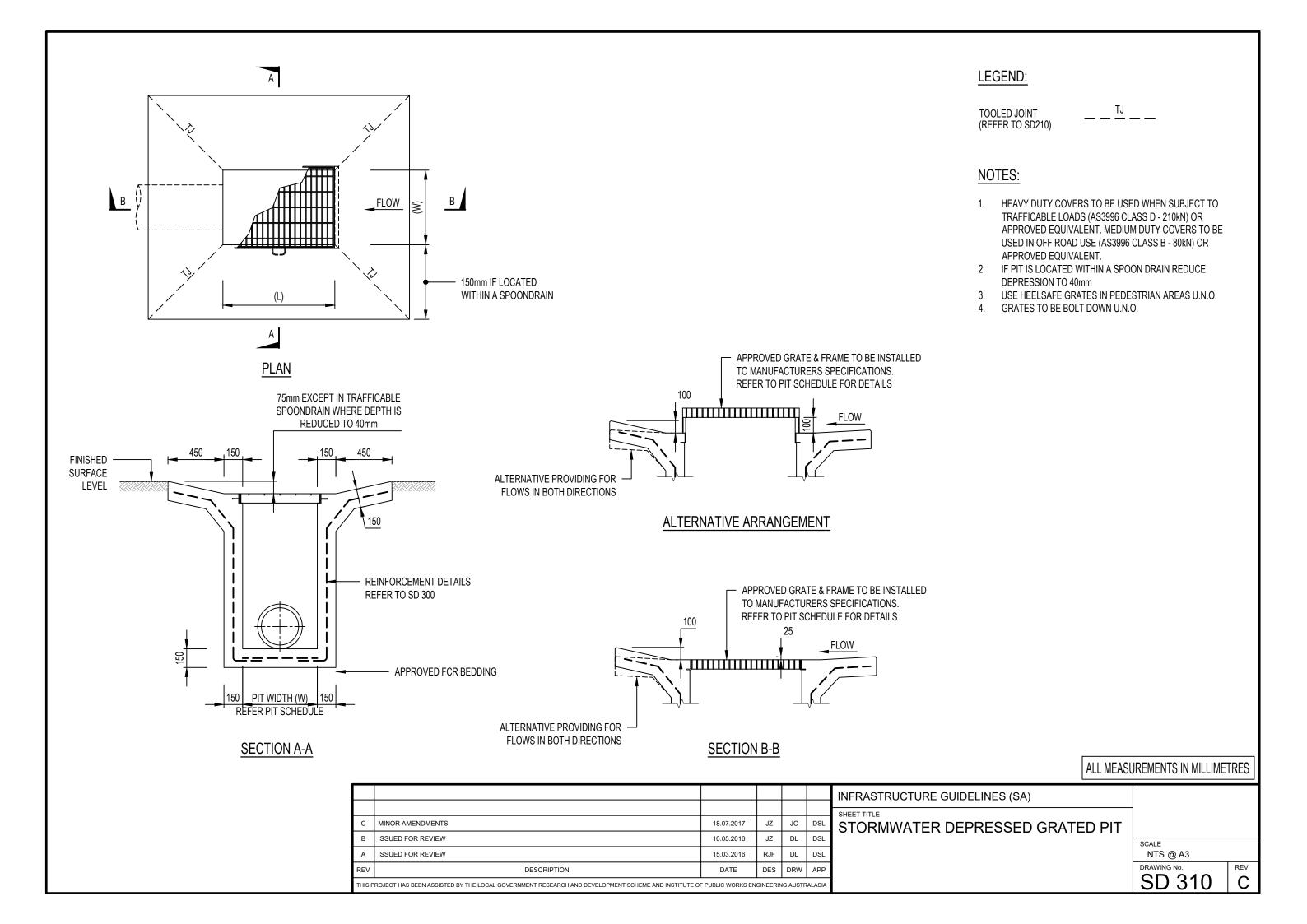
SECTION A-A

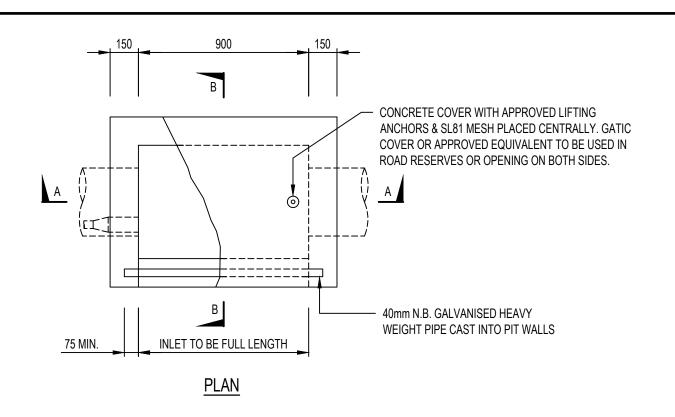
MINIMUM INTERNAL PIT SIZES (AS 3500) PIT DEPTH MINIMUM PIT SIZE d ≤ 600 450 x 450 600 < d ≤ 900</td> 600 x 600 900 < d ≤ 1200</td> 600 x 900 d ≥ 1200 900 x 900

NOTES:

- HEAVY DUTY COVERS TO BE USED WHEN SUBJECT TO TRAFFICABLE LOADS (AS3996 CLASS D - 210kN) OR APPROVED EQUIVALENT. MEDIUM DUTY COVERS TO BE USED IN OFF ROAD USE (AS3996 CLASS B - 80kN) OR APPROVED EQUIVALENT.
- 2. CONCRETE PIT STREAMLINING TO BE PROVIDED WHERE SHOWN ON DRAWINGS.
- 3. INTERNAL PIT DIMENSIONS SHALL ALLOW FOR THE PIPE OUTER DIAMETER AT CUT ANGLE PLUS CONSTRUCTION TOLERANCE PLUS 50mm EACH SIDE.
- 4. MINIMUM PIT LID OPENING SIZE TO BE 600mm DIAMETER FOR ALL PITS GREATER THAN 600mm DEPTH
- 5. ALL GRATED COVERS TO BE HOT DIP GALVANISED FOR INSTALLATIONS IN NON-TRAFFICKED AREAS.
- 6. ROUND PIT LIDS PREFERRED TO REDUCE RISK OF FALL INTO THE PITS.

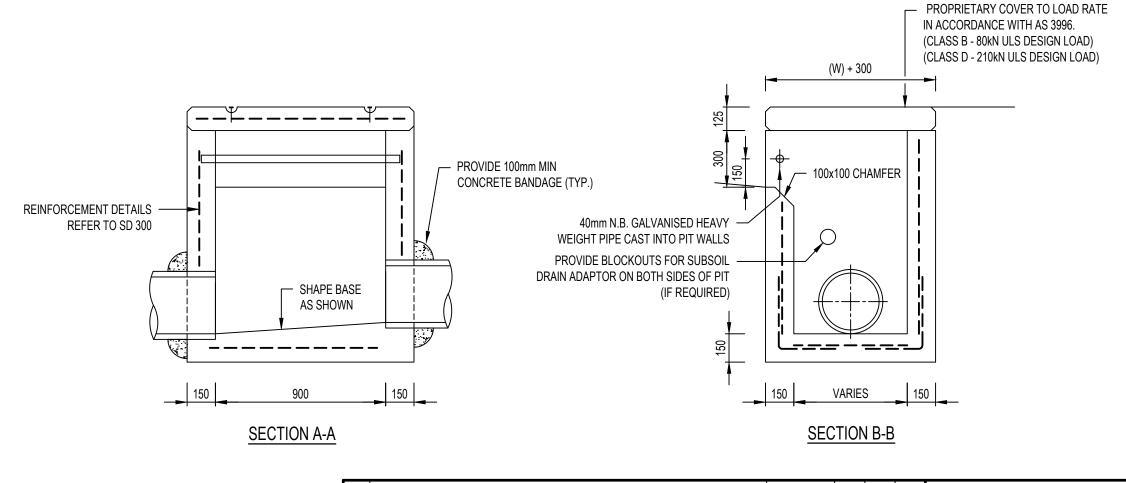
							INFRASTRUCTURE GUIDELINES (SA)		
	D	MINOR AMENDMENTS	06.11.2018	AF	AF	MDH	SHEET TITLE		
	С	MINOR AMENDMENTS	18.07.2017	JZ	JC	DSL	STORMWATER JUNCTION PIT		
	В	ISSUED FOR REVIEW	10.05.2016	JZ	DL	DSL		SCALE	
	Α	ISSUED FOR REVIEW	15.03.2016	RJF	DL	DSL	/ GRATED INLET PIT	NTS @ A3	
R	REV	DESCRIPTION	DATE	DES	DRW	APP		DRAWING No.	REV
Т	HIS PF	ROJECT HAS BEEN ASSISTED BY THE LOCAL GOVERNMENT RESEARCH AND DEVELOPMENT SCHEME AND INSTITUTE OF	ALASIA		SD 305	\mid D			



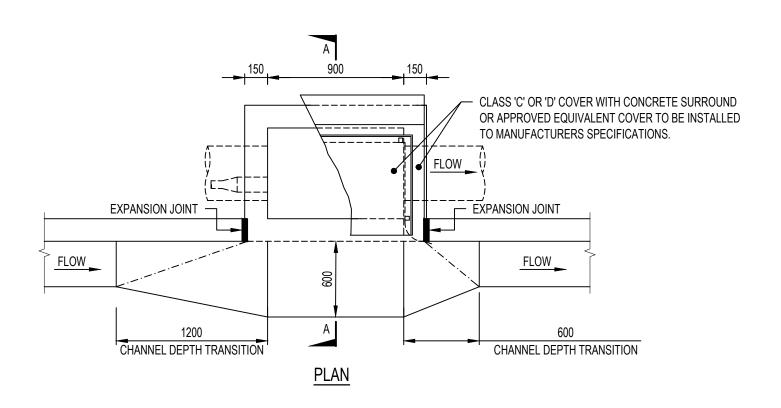


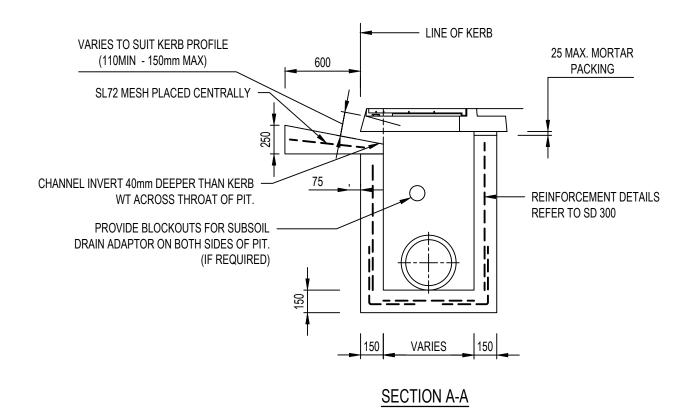
NOTES:

- 1. PLACEMENT OF PIT WITHIN ROAD RESERVE SUBJECT TO COUNCIL APPROVAL.
- 2. REFER TO PIT SCHEDULE FOR CORRECT PIT ORIENTATION.



ŀ							INFRASTRUCTURE GUIDELINES (SA)		
ŀ	С	MINOR AMENDMENTS	18.07.2017	JZ	JC	DSL	SHEET TITLE STORMWATER INLET CATCH PIT / FIELD GULLY		
	В	ISSUED FOR REVIEW	10.05.2016	JZ	DL	DSL	0,	SCALE	
	Α	ISSUED FOR REVIEW	15.03.2016	RJF	DL	DSL		NTS @ A3	
Ī	REV	DESCRIPTION	DATE	DES	DRW	APP		DRAWING No.	REV
	THIS P	PROJECT HAS BEEN ASSISTED BY THE LOCAL GOVERNMENT RESEARCH AND DEVELOPMENT SCHEME AND INSTITUTE OF	PUBLIC WORKS EN	GINEERIN	IG AUSTR	ALASIA		SD 315	

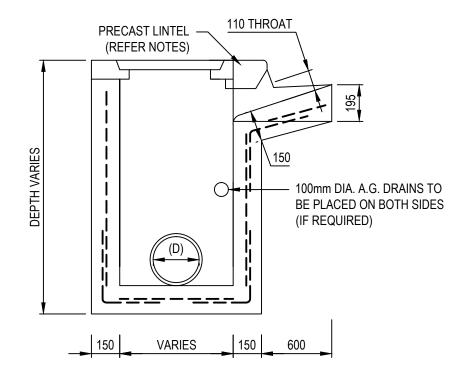


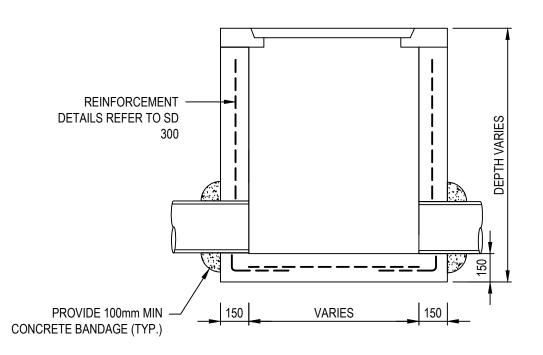


NOTE:

- . REFER TO SD 100 FOR KERB DETAILS.
- 2. CHANNEL DEPTH TRANSITION TO BE INCREASED TO 1200mm BOTH SIDES AT LOW POINT (SAG) LOCATIONS

F							INFRASTRUCTURE GUIDELINES (SA)		
E	С	MINOR AMENDMENTS	18.07.2017	JZ	JC	DSL	SHEET TITLE STORMWATER SIDE ENTRY PIT 900mm INLET		
	В	ISSUED FOR REVIEW	10.05.2016	JZ	DL	DSL		SCALE	
	Α	ISSUED FOR REVIEW	15.03.2016	RJF	DL	DSL		NTS @ A3	
F	REV	DESCRIPTION	DATE	DES	DRW	APP		DRAWING No.	REV
٦	THIS P	PROJECT HAS BEEN ASSISTED BY THE LOCAL GOVERNMENT RESEARCH AND DEVELOPMENT SCHEME AND INSTITUTE OF PUBLIC WORKS ENGINEERING AUSTRALASIA						SD 320	C



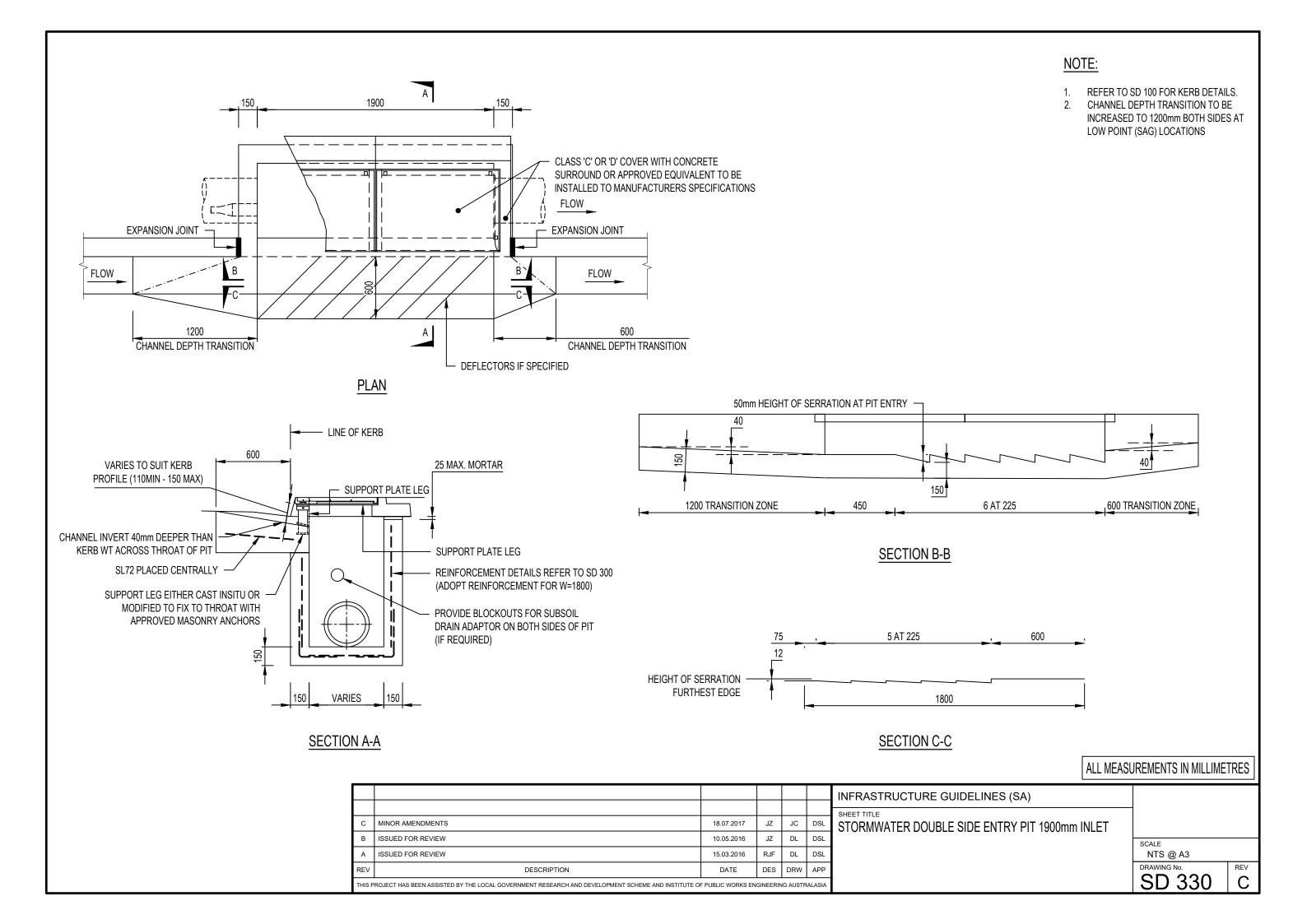


SECTION A-A SECTION B-B

NOTES:

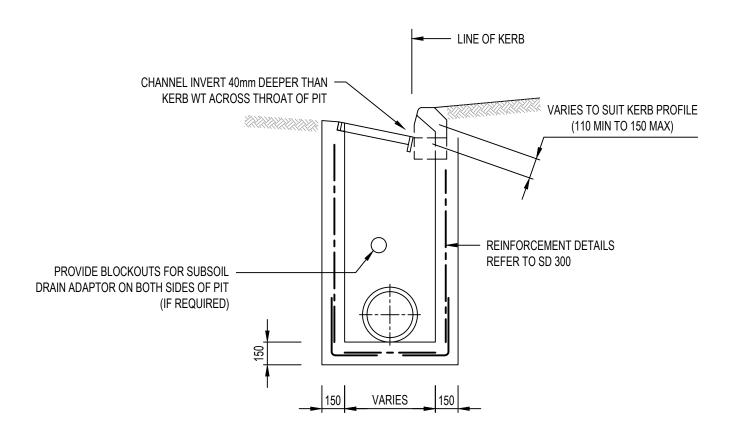
- 1. PRECAST LINTEL FRAME AND LIDS AS APPROVED BY COUNCIL TO BE INSTALLED TO MANUFACTURERS RECOMMENDATIONS.
- 2. CONSTRUCT 100mm DIA. P.V.C. PIPE WITH CONSTRUCTION WORKS TO DRAIN WATER FROM PAVEMENT. AS DIRECTED BY COUNCIL.
- 3. AT LOW POINT TRANSITION 1200mm BOTH SIDES.
- 4. PRECAST LINTEL TO MATCH REQUIRED KERB TYPE.

						INFRASTRUCTURE GUIDELINES (SA)		
D	MINOR AMENDMENTS	06.11.2018	AF	AF	MDH	SHEET TITLE		
С	MINOR AMENDMENTS	18.07.2017	JZ	JC	DSL	STORMWATER SIDE ENTRY PIT AND LIDS		
В	ISSUED FOR REVIEW	10.05.2016	JZ	DL	DSL		SCALE	
Α	ISSUED FOR REVIEW	15.03.2016	RJF	DL	DSL	WITH PRECAST LINTEL	NTS @ A3	
REV	DESCRIPTION	DATE	DES	DRW	APP		DRAWING No.	REV
THIS PI	ROJECT HAS BEEN ASSISTED BY THE LOCAL GOVERNMENT RESEARCH AND DEVELOPMENT SCHEME AND INSTITUTE OF	PUBLIC WORKS EN	SINEERIN	IG AUSTR	ALASIA		SD 325	D



BACK OF KERB INVERT OF KERB INVERT OF KERB INVERT OF KERB INVERT OF KERB IN ACCORDANCE WITH AUSTRALIAN STANDARDS. GATIC (321S) TYPE OR APPROVED EQUIVALENT.

PLAN



SECTION A-A

ALL MEASUREMENTS IN MILLIMETRES

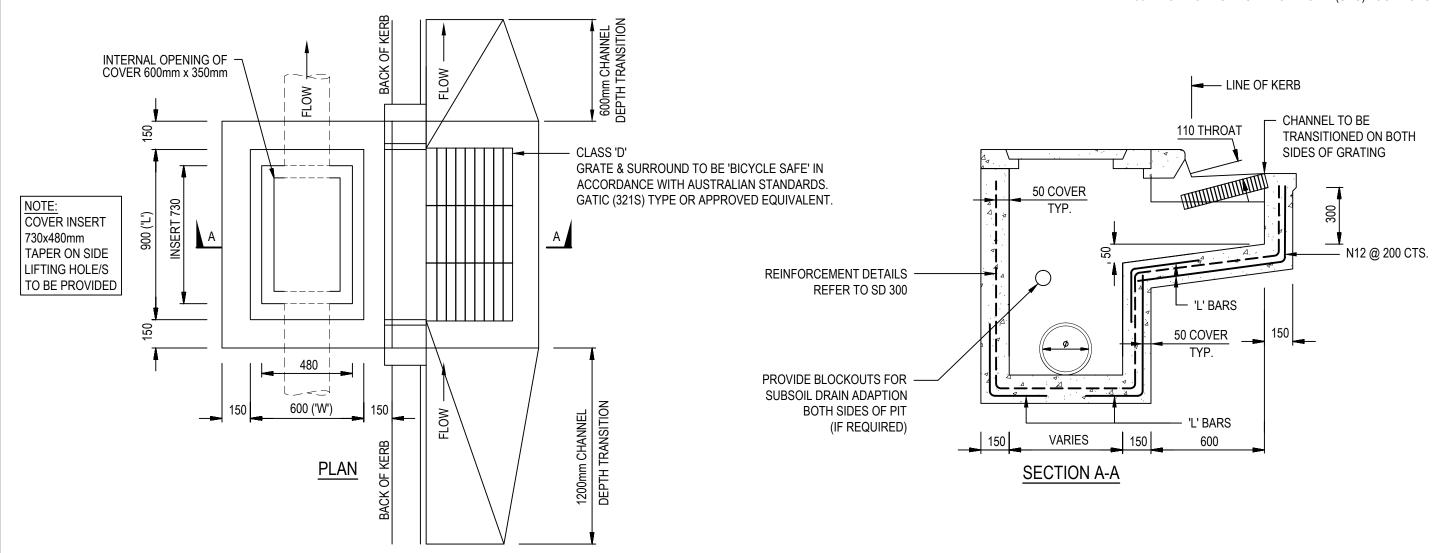
						INFRASTRUCTURE GUIDELINES (SA)		
						SHEET TITLE		
С	MINOR AMENDMENTS	18.07.2017	JZ	JC	DSL	PRECAST SIDE ENTRY PIT INLET WITH		
В	ISSUED FOR REVIEW	10.05.2016	JZ	DL	DSL		SCALE	
Α	ISSUED FOR REVIEW	15.03.2016	RJF	DL	DSL	GRATE INLINE	NTS @ A3	
REV	DESCRIPTION	DATE	DES	DRW	APP		DRAWING No.	REV
THIS	PROJECT HAS BEEN ASSISTED BY THE LOCAL GOVERNMENT RESEARCH AND DEVELOPMENT SCHEME AND INSTITUTE OF	F PUBLIC WORKS EN		SD 335	C			

NOTES:

- 1. REFER TO SD100 FOR KERB DETAILS.
- 2. CLASS D LOAD RATING REQUIRED.
- CHANNEL DEPTH TRANSITION TO BE INCREASED TO 1200mm ON BOTH SIDES AT LOW POINT (SAG) LOCATIONS



- 1. CLASS D LOAD RATING REQUIRED FOR GRATE. COVERS TO BE CLASS B OR HIGHER IF LIKELY TO BE DRIVEN OVER
- 2. PRECAST LINTEL AND GRATES APPROVED BY COUNCIL TO BE INSTALLED BY MANUFACTURERS RECOMMENDATIONS.
- 3. CHANNEL DEPTH TRANSITION TO BE INCREASED TO 1200mm ON BOTH SIDES AT LOW POINT (SAG) LOCATIONS



							INFRASTRUCTURE GUIDELINES (SA)		
	D	MINOR AMENDMENTS	06.11.2018	AF	AF	MDH	SHEET TITLE		
	С	MINOR AMENDMENTS	18.07.2017	JZ	JC	DSL	OFFSET SIDE ENTRY PIT		
	В	ISSUED FOR REVIEW	10.05.2016	JZ	DL	DSL		SCALE	
	Α	ISSUED FOR REVIEW	15.03.2016	RJF	DL	DSL	WITH 900mm INLET GRATE	NTS @ A3	
l	REV	DESCRIPTION	DATE	DES	DRW	APP		DRAWING No.	REV
	THIS PROJECT HAS BEEN ASSISTED BY THE LOCAL GOVERNMENT RESEARCH AND DEVELOPMENT SCHEME AND INSTITUTE OF PUBLIC WORKS ENGINEERING AUSTRALASIA						SD 340	D	

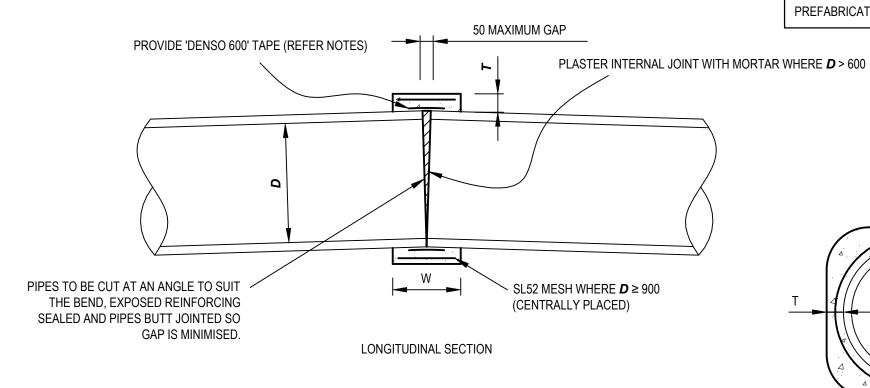
BANDAGE JOINT NOTES:

- 1. ALL CONCRETE WORKS TO BE 32MPa UNLESS NOTED OTHERWISE.
- 2. 'DENSO 600' TAPE OR SIMILAR APPROVED SHALL BE USED. TAPE TO BE 200mm MIN. WIDTH AND LAPPED 100mm MIN. TAPE IS TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.
- 3. MORTAR MIX TO CONSIST OF 3 PARTS SAND TO 1 PART CEMENT BY VOLUME.
- 4. MAXIMUM DEFLECTION ANGLE

PIPE SIZE MAXIMUM DEFLECTION ANGLE

300Ø
600Ø
14°
900Ø
12°
1800Ø
6°

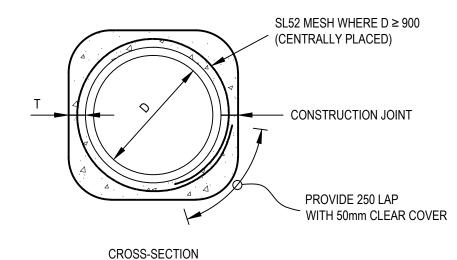
PREFABRICATED SPLAYS SHALL BE USED WHERE DEFLECTION EXCEED ABOVE ANGLES



BANDAGE JOINT

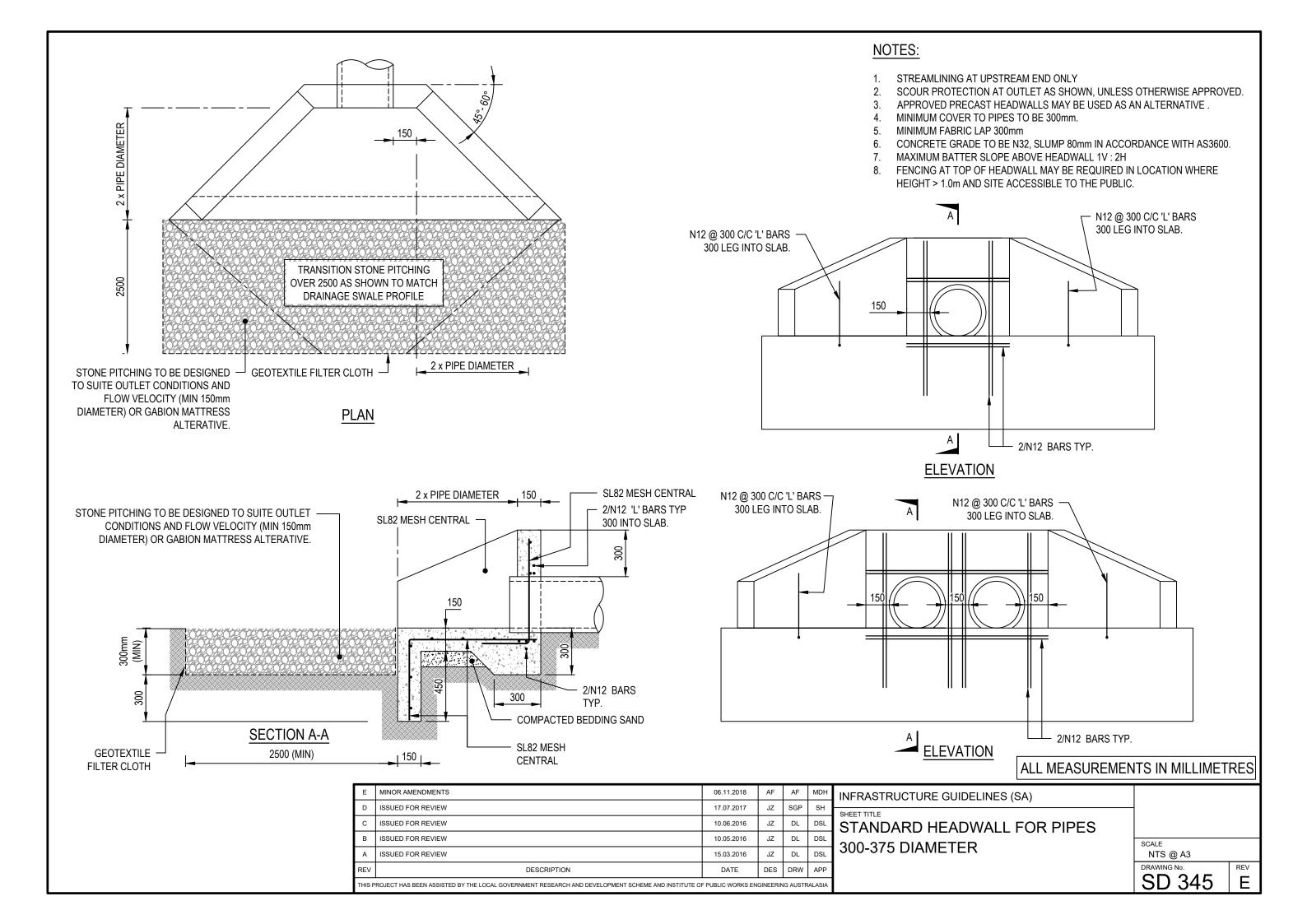
FOR CONCRETE PIPES

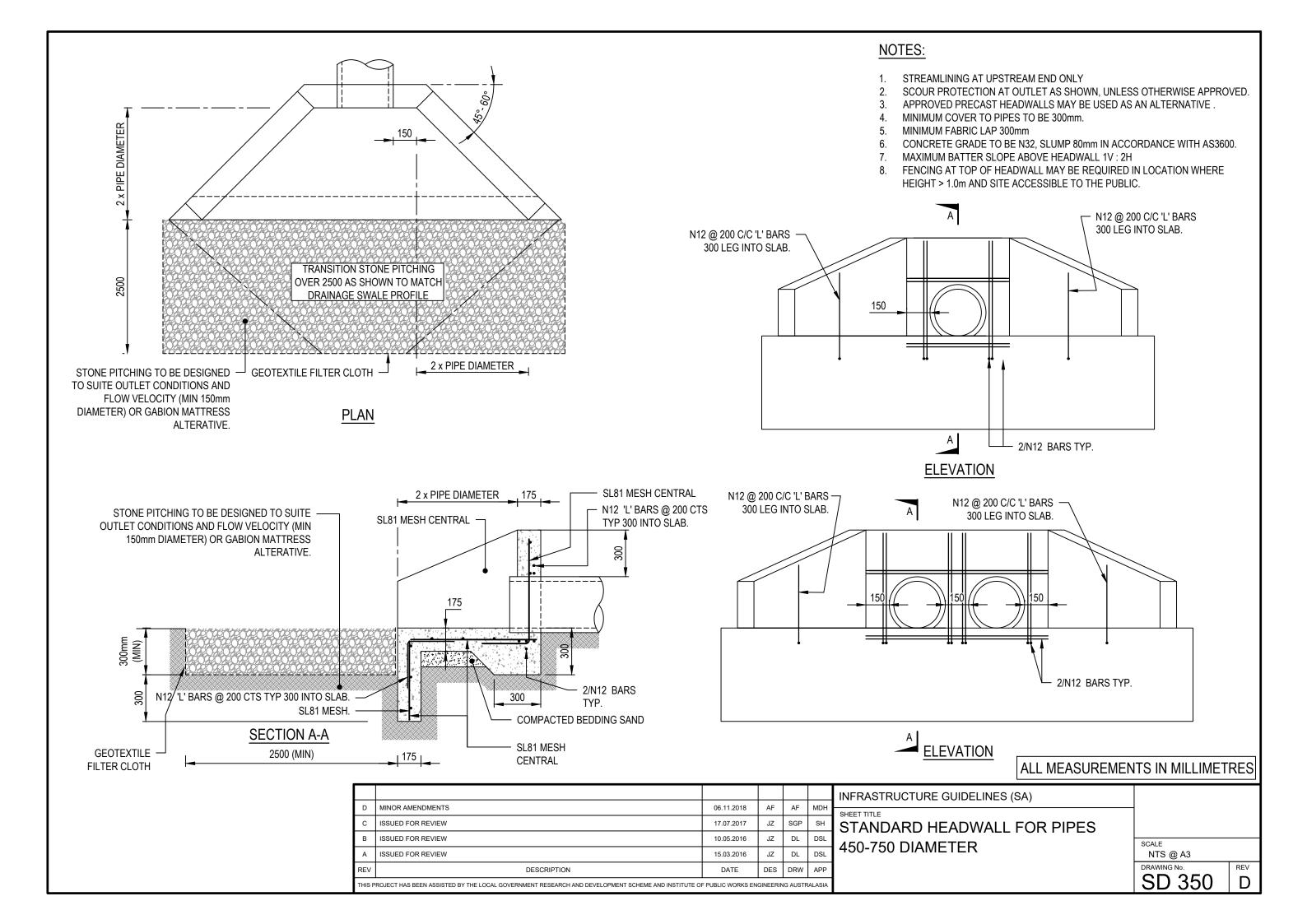
NOT TO SCALE

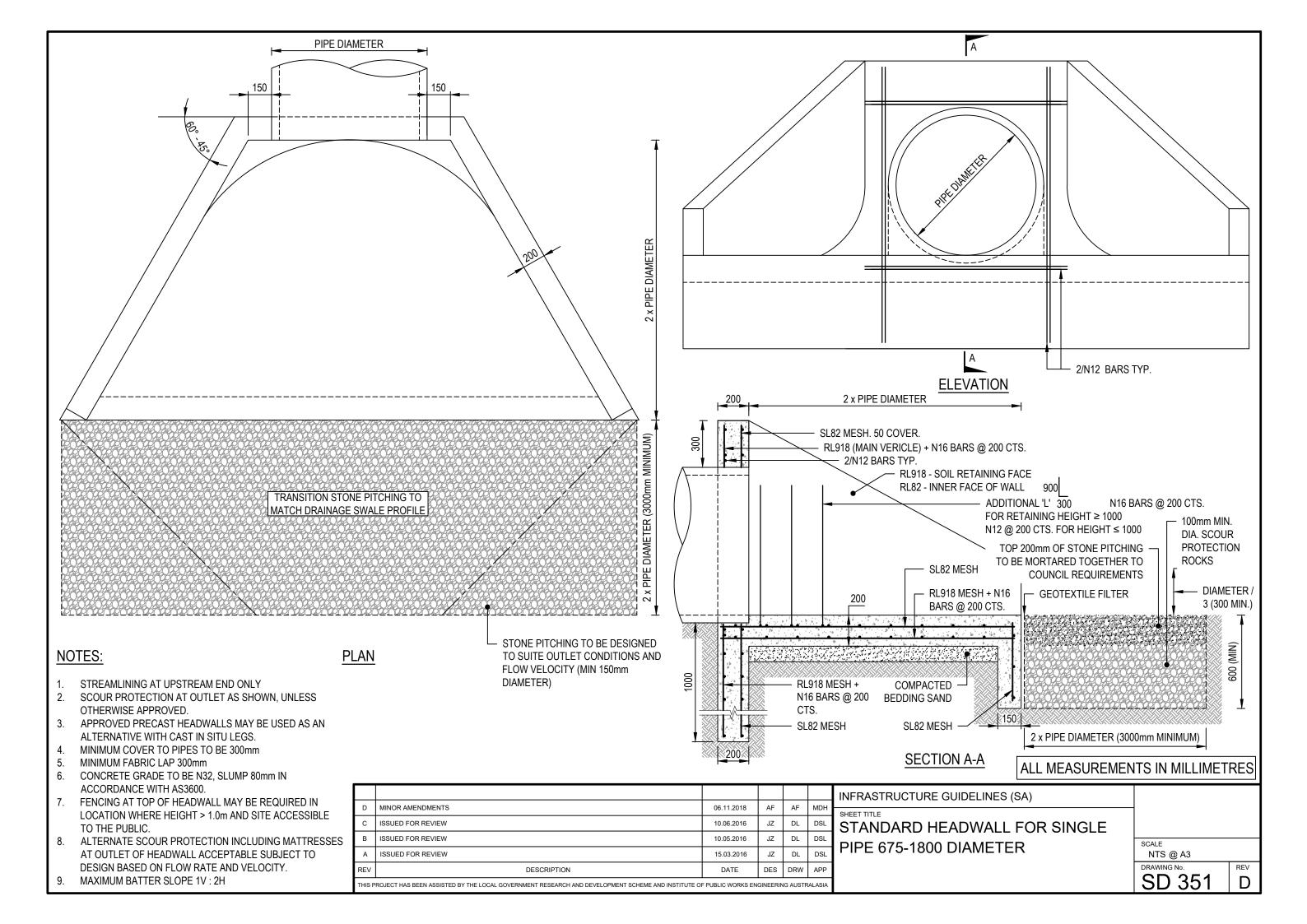


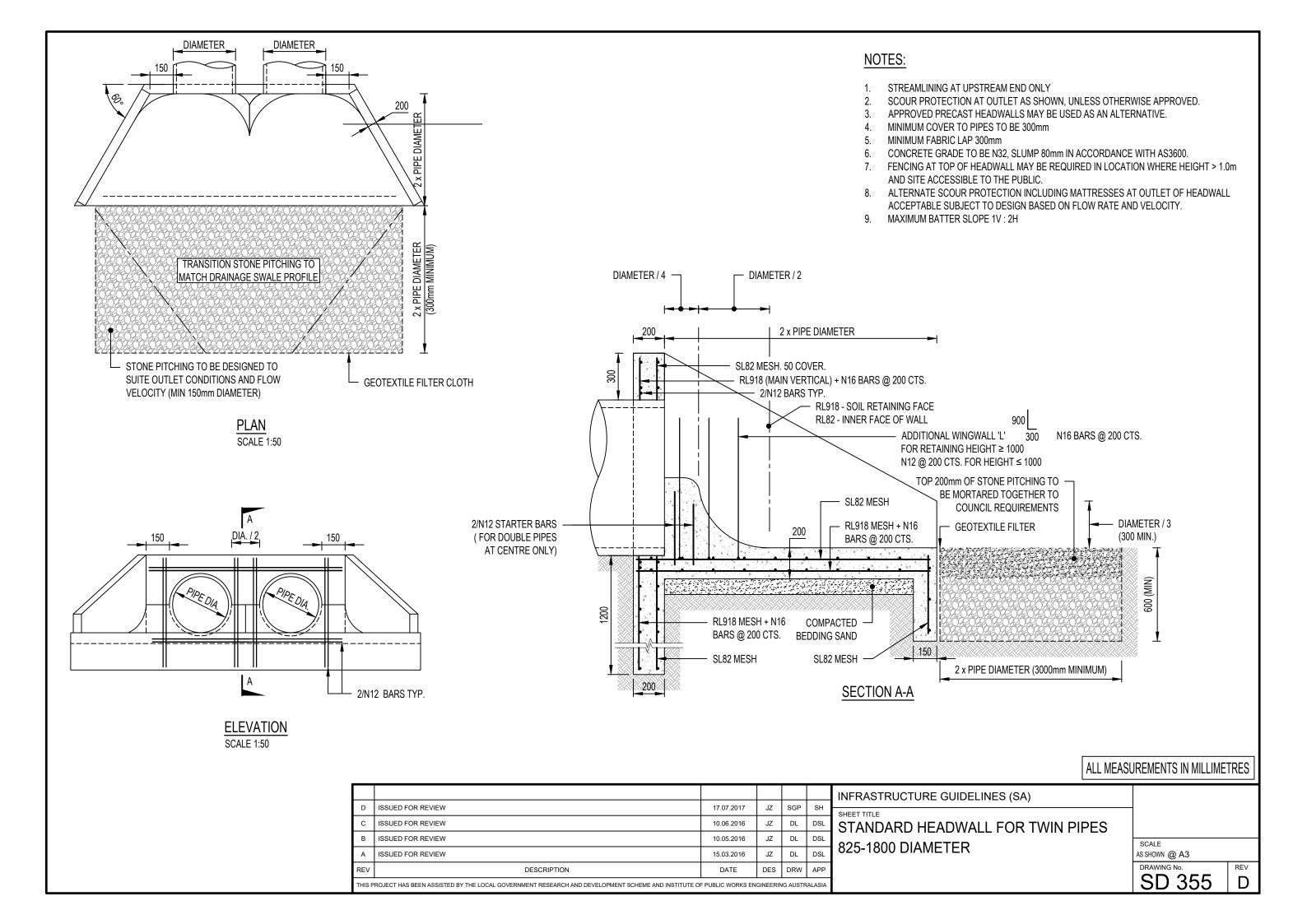
BANDAGE JOINT REQUIREMEN	NTS	
PIPE DIAMETER (D)	THICKNESS (T)	WIDTH (W)
D < 900 D ≥ 900	100 150	400 600

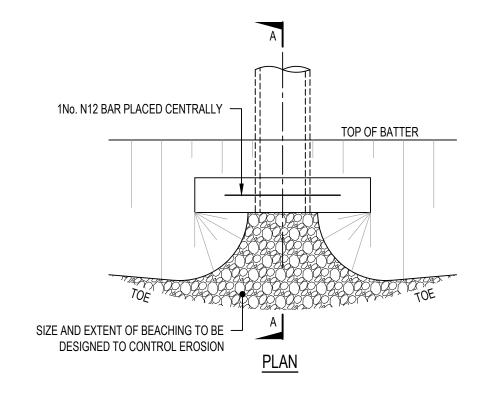
							INFRASTRUCTURE GUIDELINES (SA)		
ŀ							SHEET TITLE BANDAGE JOINT		
ŀ	Α	ISSUED FOR REVIEW	06.11.2018	AF	AF	MDH		SCALE NTS @ A3	
- 1	REV THIS PI	DESCRIPTION ROJECT HAS BEEN ASSISTED BY THE LOCAL GOVERNMENT RESEARCH AND DEVELOPMENT SCHEME AND INSTITUTE OF	DATE F PUBLIC WORKS EN	DES	DRW NG AUSTF			SD 341	A REV

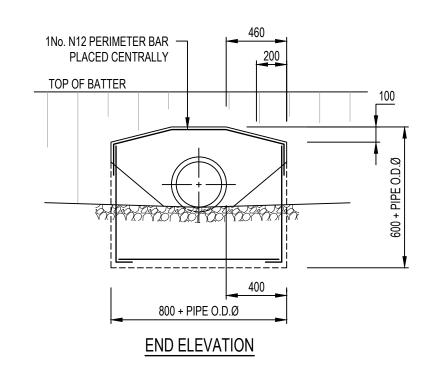


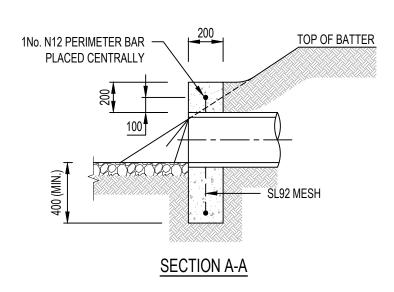






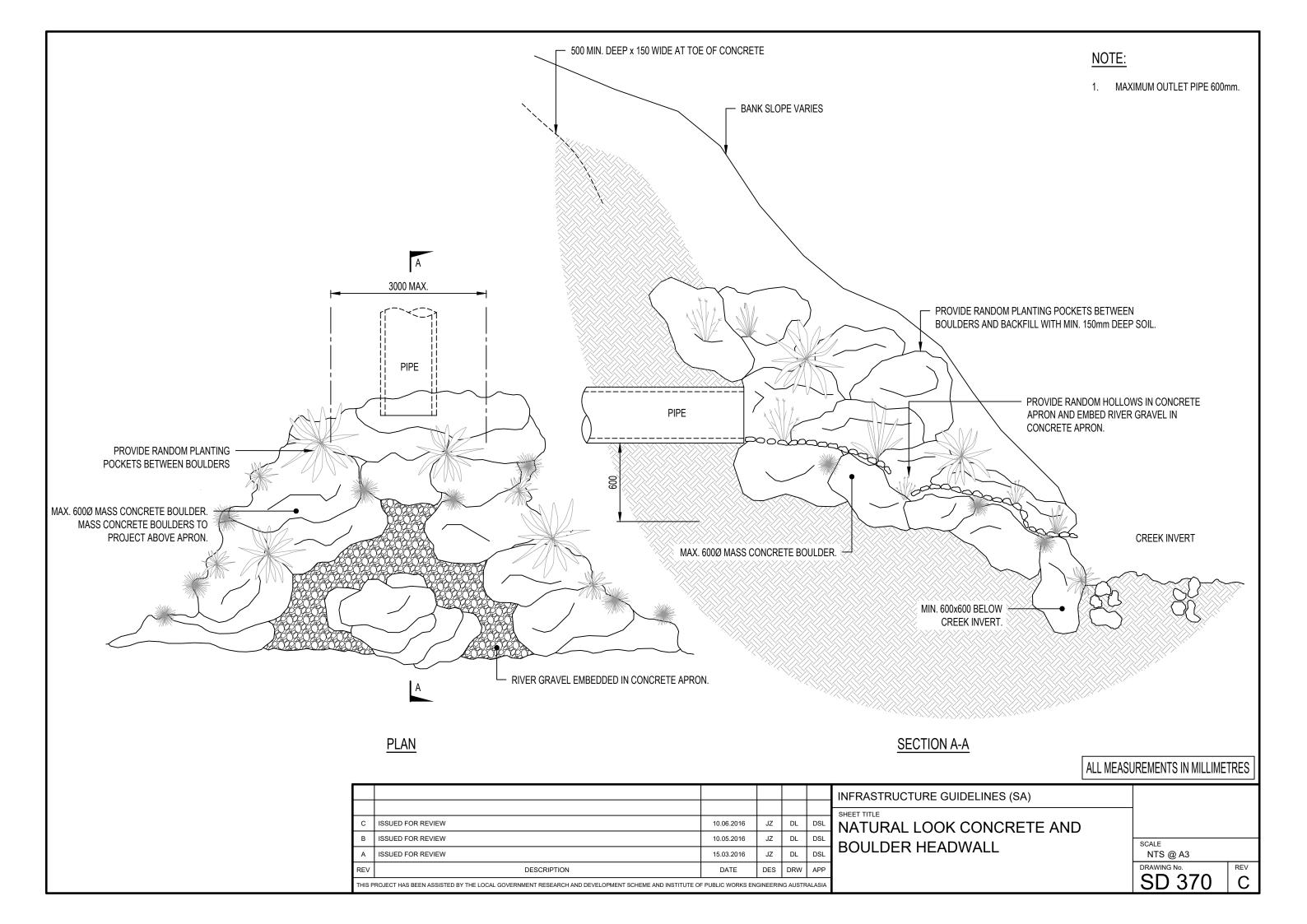


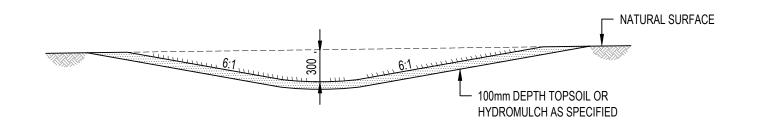




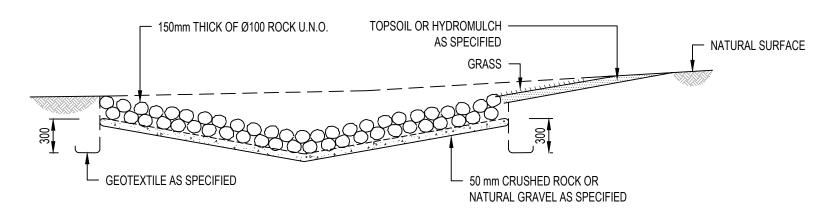
- 1. COMPACTION PRESSURE BEHIND ENDWALLS IS NOT TO EXCEED 12.5kPa. REFER (1.5 TONNE VIBRATORY ROLLER).
- 2. A MAXIMUM PIPE SIZE OF 300Ø FOR THIS ENDWALL ARRANGEMENT.
- 3. NOT TO BE USED WHERE GENERAL VEHICULAR TRAFFIC IS PRESENT (MAINTENANCE OR EMERGENCY VEHICLES EXCEPTED).
- 4. ALTERNATIVELY PRECAST ENDWALL MAY BE USED WHERE APPROVED BY COUNCIL.
- 5. CONCRETE STRENGTH F'C = 25 MPa (MIN.) AT 28 DAYS.
- 6. MAXIMUM BATTER SLOPE 1V : 2H

							INFRASTRUCTURE GUIDELINES (SA)		
							SHEET TITLE		
(С	ISSUED FOR REVIEW	10.06.2016	JZ	DL	DSL	CONCRETE ENDWALL FOR PIPES UP TO		
Е	В	ISSUED FOR REVIEW	10.05.2016	JZ	DL	DSL		SCALE	
A	A	ISSUED FOR REVIEW	15.03.2016	JZ	DL	DSL	300mmØ (WALKWAYS,PATHS AND TRACKS)	NTS @ A3	
RE	ΕV	DESCRIPTION	DATE	DES	DRW	APP		DRAWING No.	REV
ТН	IIS PI	ROJECT HAS BEEN ASSISTED BY THE LOCAL GOVERNMENT RESEARCH AND DEVELOPMENT SCHEME AND INSTITUTE OF	PUBLIC WORKS EN	RALASIA		SD 365	C		

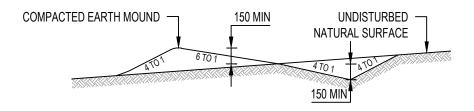




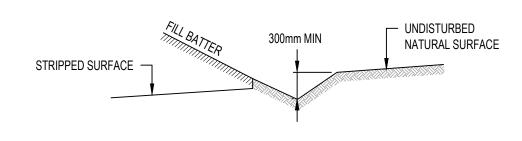
TYPICAL GRASS CATCH DRAIN SECTIONS



TYPICAL ROCK LINED CATCH DRAIN



TYPICAL MOUNDED CATCH DRAIN (ERODABLE TERRAIN)

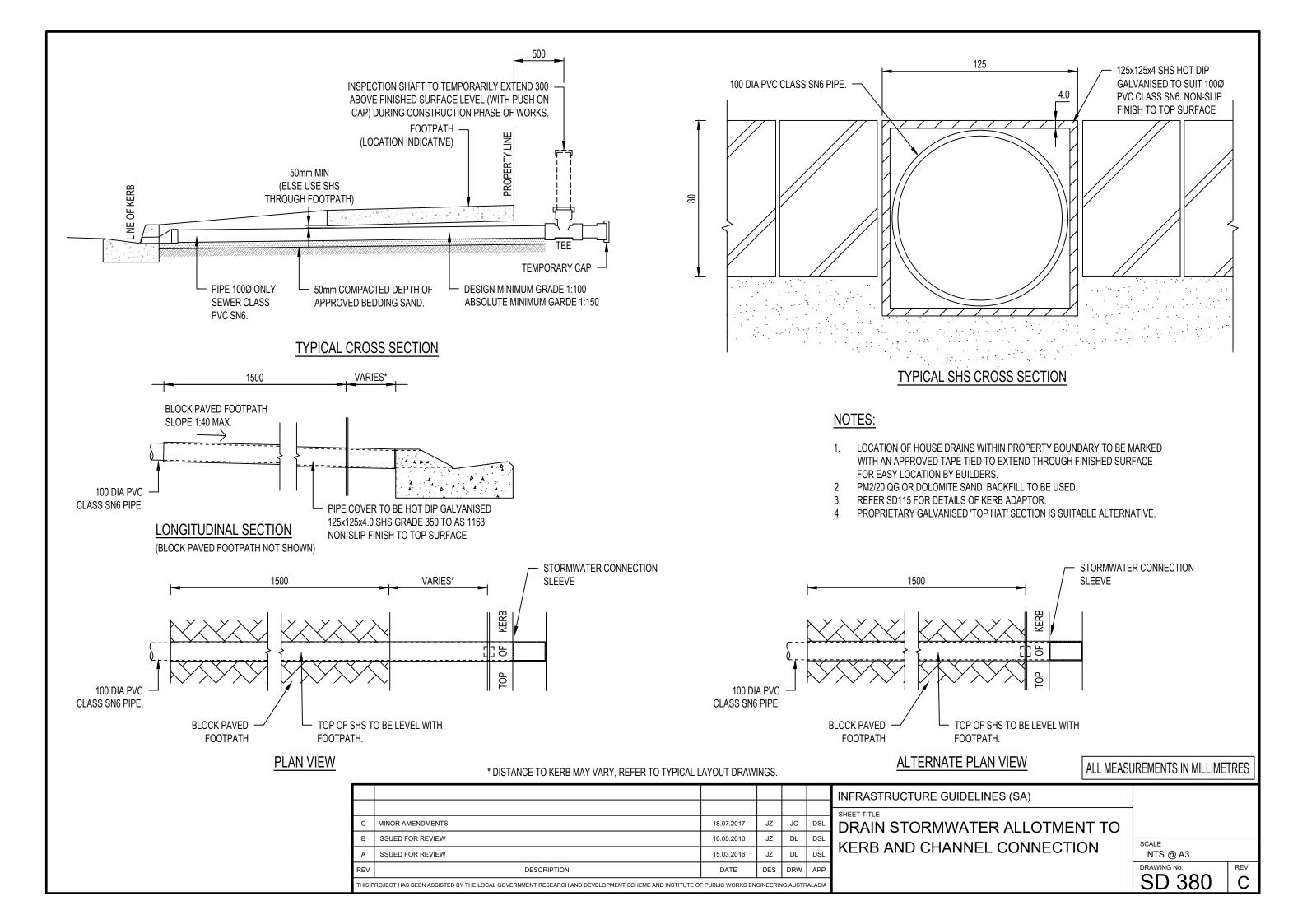


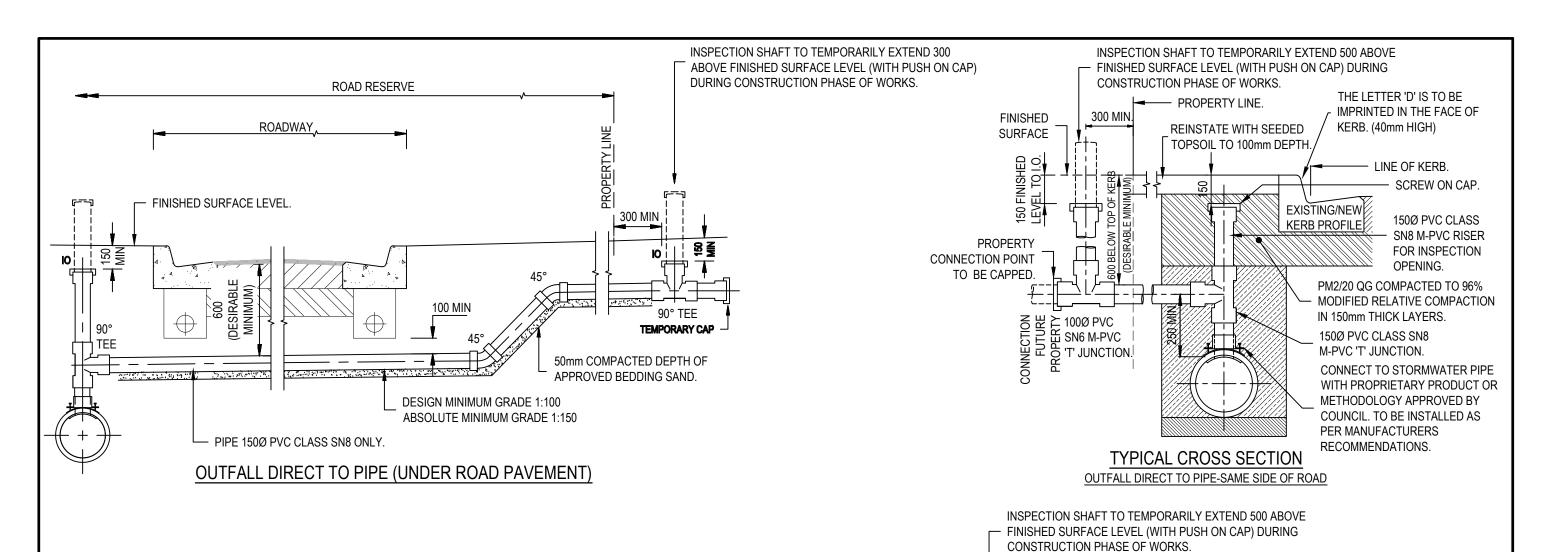
TYPICAL CATCH DRAIN AT TOE OF BATTER

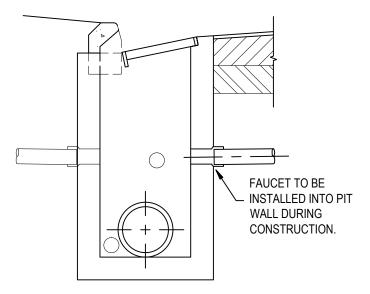
NOTES:

- 1. CATCH DRAINS SHALL BE CONSTRUCTED WHERE INDICATED ON ALIGNMENT PLANS.
- 2. CATCH DRAINS LOCATION RELATIVE TO THE BATTER SHALL BE DETERMINED BY THE COUNCIL REPRESENTATIVE.
- 3. CATCH DRAINS SHALL BE GRADED TO CULVERTS OR EXISTING LOW POINTS.
- 4. CATCH DRAINS SHALL SHALL BE SPECIFIED BY THE DESIGING AND THE LINING DETAILS BASED ON DESIGN FLOW VELOCITY, SCOUR POTENTIAL AND SOIL TYPE.
- 5. REFER SD 315 FOR INLET CATCH PIT DETAILS.

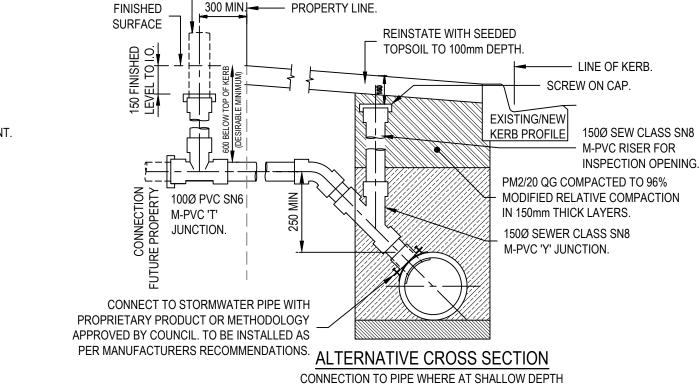
							INFRASTRUCTURE GUIDELINES (SA)		
ŀ	С	MINOR AMENDMENTS	18.07.217	JZ	JC	DSL	SHEET TITLE STORMWATER CATCH DRAIN DETAILS		
	В	ISSUED FOR REVIEW	10.05.2016	JZ	DL	DSL	O TOTAL OF THE O	SCALE	\longrightarrow
	Α	ISSUED FOR REVIEW	15.03.2016	JZ	DL	DSL		NTS @ A3	
	REV	DESCRIPTION	DATE	DES	DRW	APP		DRAWING No.	REV
	THIS P	ROJECT HAS BEEN ASSISTED BY THE LOCAL GOVERNMENT RESEARCH AND DEVELOPMENT SCHEME AND INSTITUTE OF	PUBLIC WORKS EN	ALASIA		SD 375	C		







- I. PM2/20 QG BACKFILL TO BE USED UNDER ROAD PAVEMENT.
- CONCRETE KERB TO BE STAMPED WHEN CURING WITH THE LETTER 'D' ADJACENT THE HOUSE DRAIN CONNECTION POINT.



OUTFALL DIRECT TO DRAINAGE PIT

(STREET DRAINAGE)

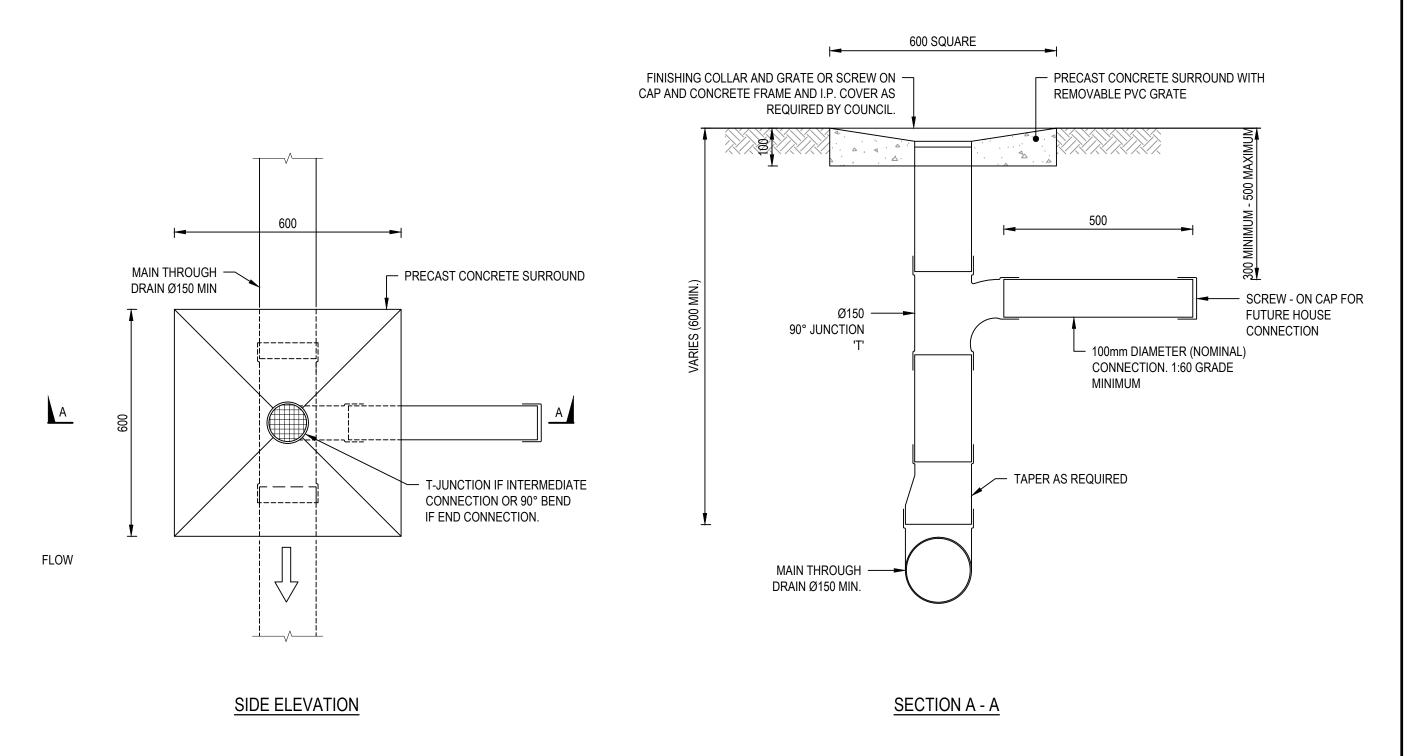
ALL MEASUREMENTS IN MILLIMETRES

_		1			_
D	MINOR AMENDMENTS	06.11.2018	AF	AF	MDH
С	MINOR AMENDMENTS	18.07.2017	JZ	JC	DSL
В	ISSUED FOR REVIEW	10.05.2016	JZ	DL	DSL
Α	ISSUED FOR REVIEW	15.03.2016	JZ	DL	DSL
REV	DESCRIPTION	DATE	DES	DRW	APP
THIS P	ROJECT HAS BEEN ASSISTED BY THE LOCAL GOVERNMENT RESEARCH AND DEVELOPMENT SCHEME AND INSTITUTE OF	F PUBLIC WORKS EN	GINEERIN	IG AUSTR	ALASIA

INFRASTRUCTURE GUIDELINES (SA)

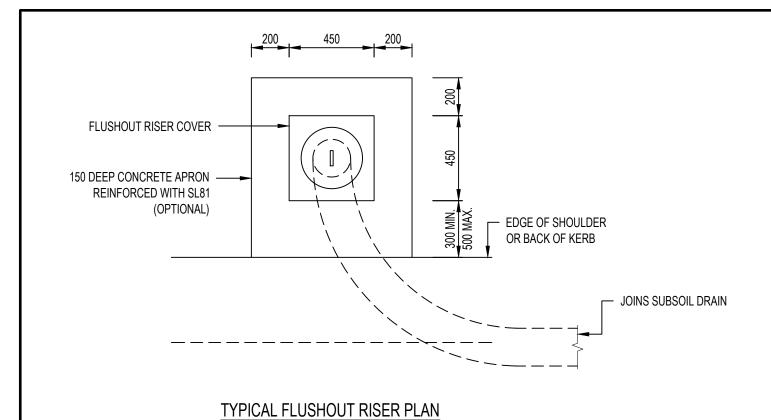
SHEET TITLE
STORMWATER ALLOTMENT DRAIN
CONNECTION TO AUTHORITY PIPELINE
NTS
DRAWMATER ALLOTMENT DRAIN
NTS

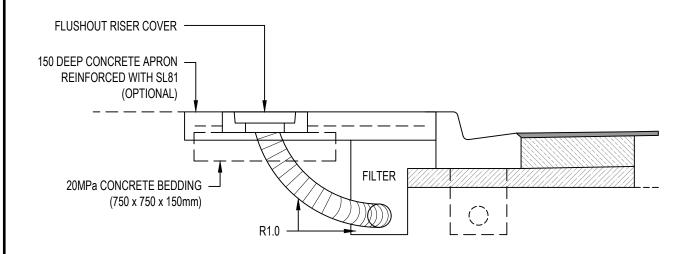
SCALE
NTS @ A3
DRAWING No.
SD 385
D



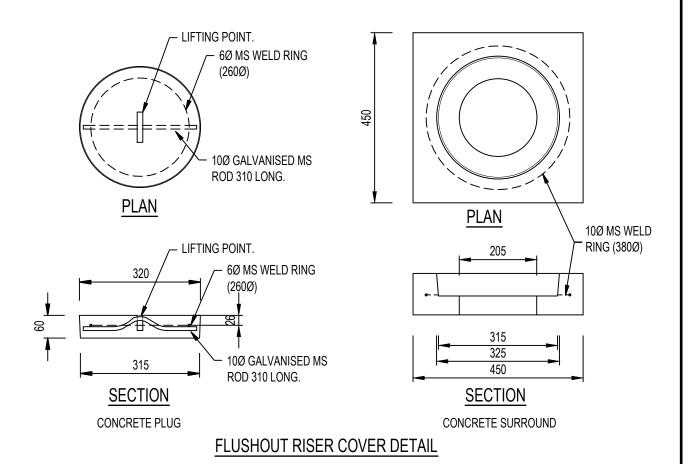
- 1. MINIMUM COVER TO PIPES TO BE 300mm.
- 2. ALL STORMWATER PIPES TO BE PVC SN8 (150Ø) SN6 (100Ø)

							INFRASTRUCTURE GUIDELINES (SA)		
	D	MINOR AMENDMENTS	06.11.2018	AF	AF	MDH	SHEET TITLE	-	
	С	MINOR AMENDMENTS	18.07.2017	JZ	JC	DSL	STORMWATER ALLOTMENT		
	В	ISSUED FOR REVIEW	10.05.2016	JZ	DL	DSL		SCALE	
	Α	ISSUED FOR REVIEW	15.03.2016	JZ	DL	DSL	CONNECTION IN EASEMENT DETAIL	NTS @ A3	
I	REV	DESCRIPTION	DATE	DES	DRW	APP		DRAWING No.	REV
	THIS P	ROJECT HAS BEEN ASSISTED BY THE LOCAL GOVERNMENT RESEARCH AND DEVELOPMENT SCHEME AND INSTITUTE OF	PUBLIC WORKS EN	RALASIA		SD 390	D		

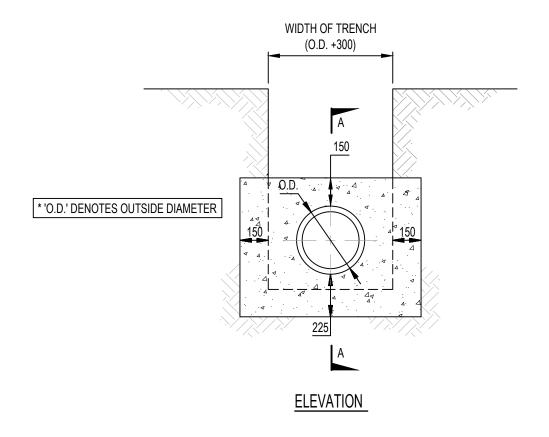


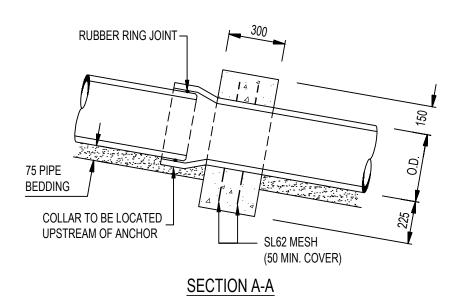


TYPICAL FLUSHOUT RISER SECTION



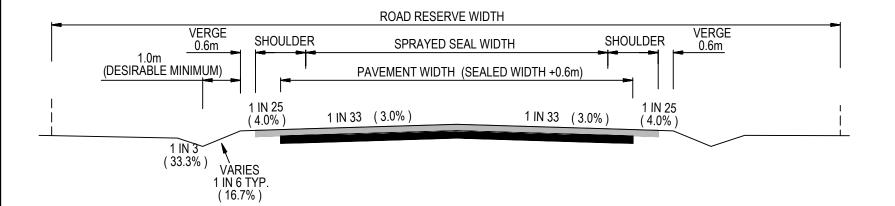
						INFRASTRUCTURE GUIDELINES (SA)		
						SHEET TITLE SUBSOIL DRAINAGE FLUSHOUT	1	
В	ISSUED FOR REVIEW	10.05.2016	JZ	DL	DSL	RISER DETAIL	SCALE	
Α	ISSUED FOR REVIEW	15.03.2016	JZ	DL	DSL	MOLINDLIAIL	NTS @ A3	
REV	DESCRIPTION	DATE	DES	DRW	APP		DRAWING No.	REV
THIS PI	ROJECT HAS BEEN ASSISTED BY THE LOCAL GOVERNMENT RESEARCH AND DEVELOPMENT SCHEME AND INSTITUTE OF	PUBLIC WORKS EN	RALASIA		SD 395	B		



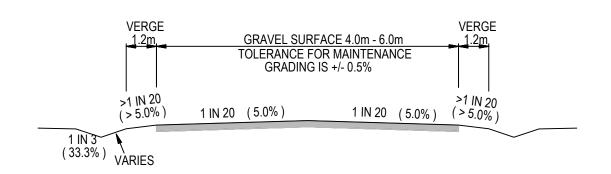


- 1. FOR USE ON PIPE AT GRADES OF 1 IN 5 OR GREATER.
- 2. TO BE CONSTRUCTED AT A MIN EVERY 5TH JOINT AND AT ALL STRUCTURES.
- 3. CONCRETE STRENGTH TO BE 25MPa.
- 4. RRJ PIPES TO BE USED.

						INFRASTRUCTURE GUIDELINES (SA)		
						SHEET TITLE STORMWATER DRAINAGE PIPE		
В	ISSUED FOR REVIEW	10.05.2016	JZ	DL	DSL	ANCHOR BLOCK	SCALE	
Α	ISSUED FOR REVIEW	15.03.2016	JZ	DL	DSL	ANCHUR BLUCK	NTS @ A3	
REV	DESCRIPTION	DATE	DES	DRW	APP		DRAWING No.	REV
THIS P	ROJECT HAS BEEN ASSISTED BY THE LOCAL GOVERNMENT RESEARCH AND DEVELOPMENT SCHEME AND INSTITUTE OF	PUBLIC WORKS EN	ALASIA		SD 400	B		



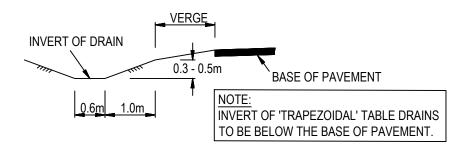
TYPICAL CROSS SECTION (SEALED ROAD)



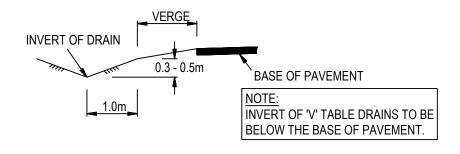
TYPICAL CROSS SECTION (GRAVEL ROAD)

NOTES:

1. PAVEMENT TO BE DETERMINED BASED ON TRAFFIC LOADING, PAVEMENT MATERIALS AND SUBGRADE STRENGTH.



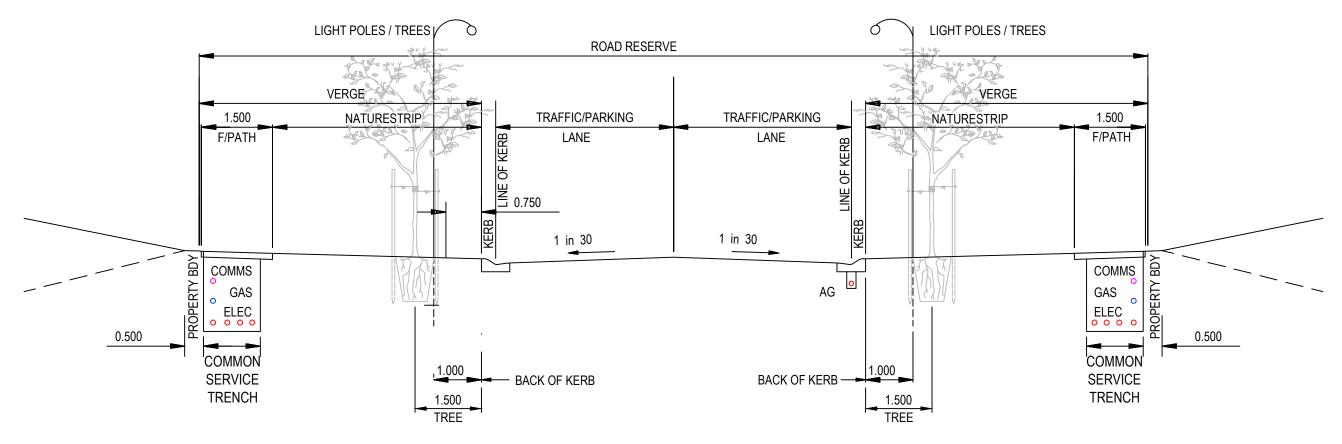
'TRAPEZOIDAL' CUT TYPE



'V' CUT TYPE

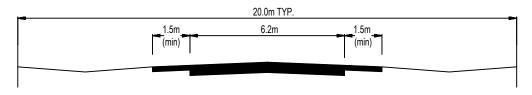
TYPICAL OPEN TABLE DRAINS

						INFRASTRUCTURE GUIDELINES (SA)		
D	MINOR AMENDMENTS	6.11.2018	AF	AF	MDH	SHEET TITLE	1	
С	MINOR AMENDMENTS	18.07.2017	JZ	JC	DSL	TYPICAL ROAD SECTIONS		
В	ISSUED FOR REVIEW	10.05.2016	JZ	DL	DSL		SCALE	
Α	ISSUED FOR REVIEW	15.03.2016	JZ	DL	DSL	(UNKERBED)	NTS @ A3	
REV	DESCRIPTION	DATE	DES	DRW	APP		DRAWING No.	REV
THIS	PROJECT HAS BEEN ASSISTED BY THE LOCAL GOVERNMENT RESEARCH AND DEVELOPMENT SCHEME AND INSTITUTE OF	PUBLIC WORKS EN	RALASIA		SD 500	<u> D</u>		

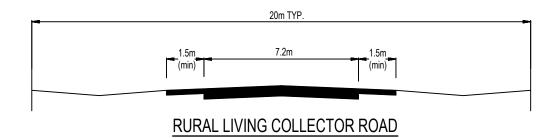


TYPICAL CROSS SECTION

						INFRASTRUCTURE GUIDELINES (SA)		
D	ISSUED FOR REVIEW	06.11.2018	AF	AF	MDH	SHEET TITLE	1	
С	MINOR AMENDMENTS	18.07.2017	JZ	JC	DSL	TYPICAL ROAD SECTION LAYOUT		
В	ISSUED FOR REVIEW	10.05.2016	JZ	DL	DSL		SCALE	
Α	ISSUED FOR REVIEW	15.03.2016	JZ	DL	DSL	(KERBED RESIDENTIAL STREET)	NTS @ A3	
REV	DESCRIPTION	DATE	DES	DRW	APP		DRAWING No.	REV
THIS P	ROJECT HAS BEEN ASSISTED BY THE LOCAL GOVERNMENT RESEARCH AND DEVELOPMENT SCHEME AND INSTITUTE OF	F PUBLIC WORKS EN	ALASIA		SD 505	D		



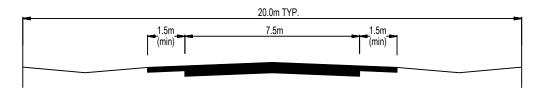
RURAL LIVING ACCESS ROAD



20.0m TYP.

1.5m 6.2m 1.5m (min)

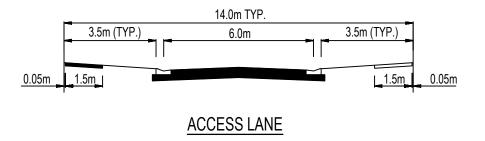
LOW DENSITY RESIDENTIAL ACCESS ROAD

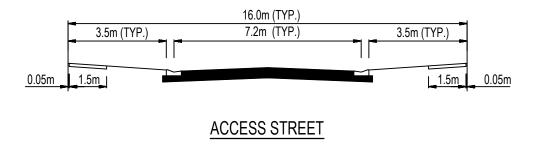


LOW DENSITY RESIDENTIAL COLLECTOR ROAD

							INFRASTRUCTURE GUIDELINES (SA)		
ŀ							SHEET TITLE TYPICAL ROAD PROFILES RURAL LIVING &		
	В	ISSUED FOR REVIEW	10.05.2016	JZ	DL	DSL	LOW DENSITY RESIDENTIAL AREAS	SCALE	
	Α	ISSUED FOR REVIEW	15.03.2016	JZ	DL	DSL	LOW DENSITY RESIDENTIAL AREAS	NTS @ A3	
	REV	DESCRIPTION	DATE	DES	DRW	APP		DRAWING No.	REV
	THIS P	PROJECT HAS BEEN ASSISTED BY THE LOCAL GOVERNMENT RESEARCH AND DEVELOPMENT SCHEME AND INSTITUTE OF	PUBLIC WORKS EN	ALASIA		SD 510	B		

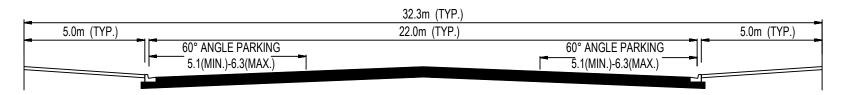
- 1. COLLECTOR ROADS AND HIGHER ORDER ROADS TO BE DESIGNED BASED ON TRAFFIC REQUIREMENTS INCLUDING BUS, TRAM, PEDESTRIANS AND CYCLISTS.
- 2. DIMENSIONS NOTED ARE TYPICAL, REFER GUIDELINE DOCUMENT FOR DEEMED TO COMPLY MINIMUM ROAD CARRIAGE WAY AND MINIMUM ROAD RESERVE WIDTHS.



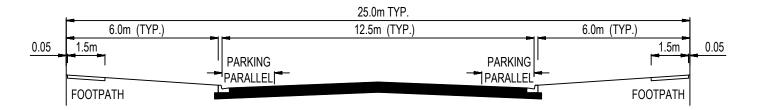


-							INFRASTRUCTURE GUIDELINES (SA)		
L							SHEET TITLE	1	
	С	MINOR AMENDMENTS	18.07.2017	JZ	JC	DSL	TYPICAL ROAD SECTIONS URBAN AREAS		
	В	ISSUED FOR REVIEW	10.05.2016	JZ	DL	DSL		SCALE	
	Α	ISSUED FOR REVIEW	15.03.2016	JZ	DL	DSL		NTS @ A3	
	REV	DESCRIPTION	DATE	DES	DRW	APP		DRAWING No.	REV
	THIS P	ROJECT HAS BEEN ASSISTED BY THE LOCAL GOVERNMENT RESEARCH AND DEVELOPMENT SCHEME AND INSTITUTE OF	PUBLIC WORKS EN	ALASIA		SD 515			

- COLLECTOR ROADS AND HIGHER ORDER ROADS TO BE DESIGNED BASED ON TRAFFIC REQUIREMENTS INCLUDING BUS, TRAM, PEDESTRIANS AND CYCLISTS.
- 2. DIMENSIONS NOTED ARE TYPICAL, REFER GUIDELINE DOCUMENT FOR DEEMED TO COMPLY MINIMUM ROAD CARRIAGE WAY AND MINIMUM ROAD RESERVE WIDTHS.

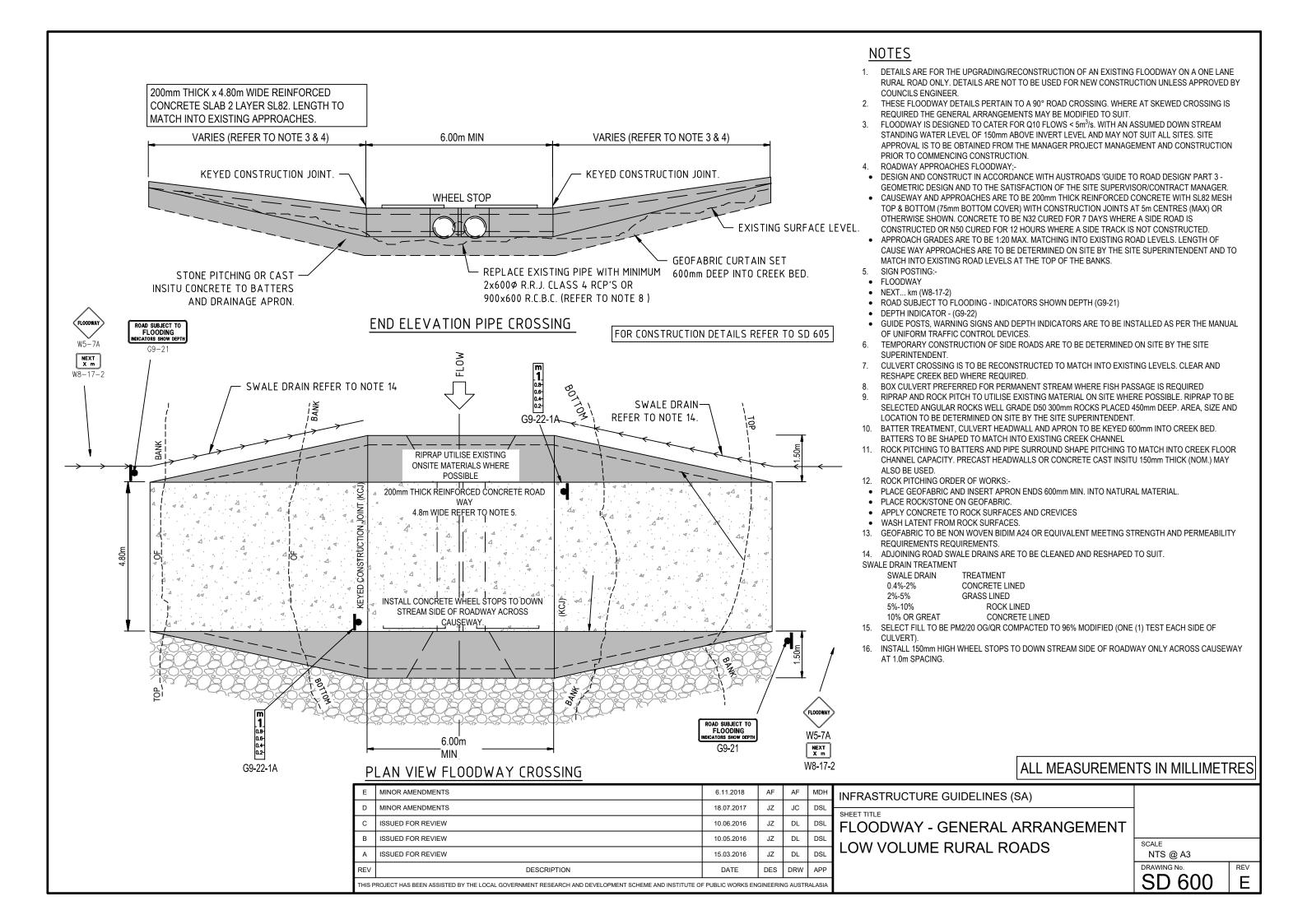


COMMERCIAL STREET

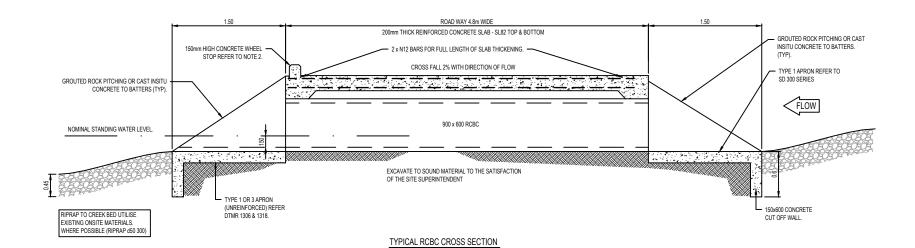


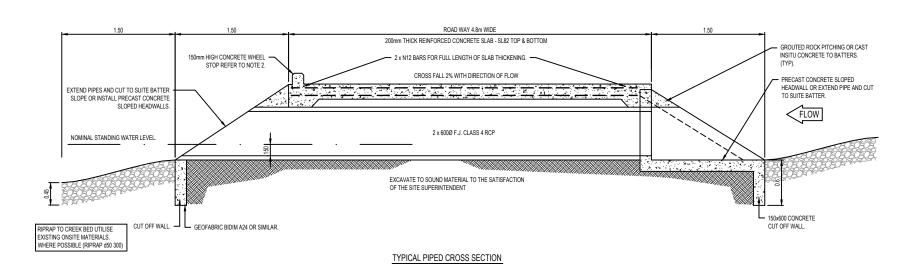
INDUSTRIAL STREET

F							INFRASTRUCTURE GUIDELINES (SA)		
L							SHEET TITLE		
	С	MINOR AMENDMENTS	18.07.2017	JZ	JC	DSL	TYPICAL ROAD PROFILES		
	В	ISSUED FOR REVIEW	10.05.2016	JZ	DL	DSL		SCALE	
	Α	ISSUED FOR REVIEW	15.03.2016	JZ	DL	DSL	COMMERCIAL STREET / INDUSTRIAL STREET	NTS @ A3	
R	EV	DESCRIPTION	DATE	DES	DRW	APP		DRAWING No.	REV
Т	HIS P	PROJECT HAS BEEN ASSISTED BY THE LOCAL GOVERNMENT RESEARCH AND DEVELOPMENT SCHEME AND INSTITUTE OF	PUBLIC WORKS EN	RALASIA		SD 520	C		



- 150mm HIGH CONCRETE WHEEL STOP REFER TO NOTE 2. N12 STARTER BARS 600 LONG @ 400 CTS.. 2 x N12 BARS FOR FULL LENGTH OF SLAB THICKENING. SL82 MESH TOP & BOTTOM 2 x N12 BARS FOR FULL LENGTH OF SLAB THICKENING. SL82 MESH TOP & BOTTOM CONCRETE TO BATTERS (TYP). -200mm THICK GROUTED ROCK PITCHING aria ara ara ara CONCRETE BATTER TREATMENT CONCRETE BATTER TREATMENT

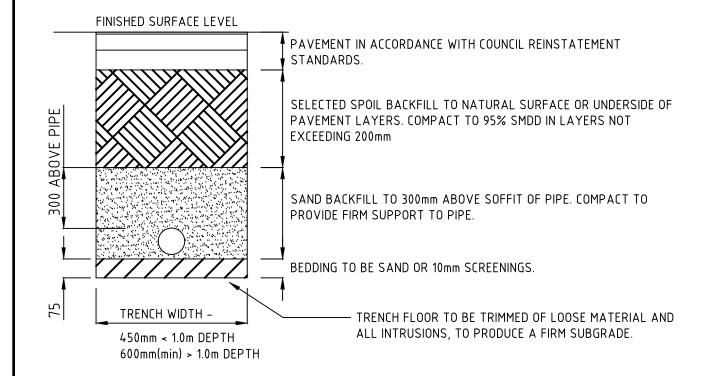




NOTES

- FOR GENERAL ARRANGEMENT OF FLOODWAY AND STANDARD NOTES REFER TO SD 600
- ${\tt INSTALL~150mm~HIGH~WHEEL~STOPS~TO~DOWN~STREAM~SIDE~OF~ROADWAY~ONLY,~ACROSS~CAUSEWAY~AT~1.0m~SPACING.}\\$
- END TREATMENT OPTIONS:- i) ROCK PITCHING. ii) REINFORCED CONCRETE 150mm THICK SL82. iii) SLOPED 600Ø HEADWALLS. iv) EXTEND PIPES AND CUT AT ANGLE TO MATCH EXISTING BATTER SLOPE.
- $4. \hspace{0.5cm} \textbf{SELECT FILL TO BE PM2/20 OG/QR COMPACTED TO 96\% MODIFIED (ONE (1) TEST EACH SIDE OF FLOODWAY)} \\$

						INFRASTRUCTURE GUIDELINES (SA)		
						SHEET TITLE FLOODWAY - DETAILS		
В	ISSUED FOR REVIEW	10.05.2016	JZ	DL	DSL	LOW VOLUME RURAL ROADS	SCALE	
Α	ISSUED FOR REVIEW	15.03.2016	JZ	DL	DSL	LOW VOLUME RURAL ROADS	NTS @ A3	
REV	DESCRIPTION	DATE	DES	DRW	APP		DRAWING No.	REV
THIS	PROJECT HAS BEEN ASSISTED BY THE LOCAL GOVERNMENT RESEARCH AND DEVELOPMENT SCHEME AND INSTITUTE O	F PUBLIC WORKS EN	RALASIA		SD 605	В		



TYPICAL TRENCH AND BACKFILL -

NO GROUNDWATER

PAVEMENT IN ACCORDANCE WITH COUNCIL REINSTATEMENT STANDARDS. SELECTED SPOIL BACKFILL TO NATURAL SURFACE OR UNDERSIDE OF 300 ABOVE PIPE PAVEMENT LAYERS. COMPACT TO 95% SMDD IN LAYERS NOT EXCEEDING 200mm A24 GEOTEXTILE OVER THE AGGREGATE, PRIOR TO BACKFILL WITH EXCAVATED MATERIAL. 10mm SCREENINGS BACKFILL TO 300mm ABOVE SOFFIT OF PIPE. A24 GEOTEXTILE TO BASE AND SIDES OF TRENCH. BEDDING TO BE 10mm AGGREGATE SCREENINGS. TRENCH WIDTH -TRENCH FLOOR TO BE TRIMMED OF LOOSE MATERIAL AND ALL INTRUSIONS, TO PRODUCE A FIRM SUBGRADE. 450mm < 1.0m DEPTH 600mm(min) > 1.0m DEPTH

TYPICAL TRENCH AND BACKFILL - IN GROUNDWATER

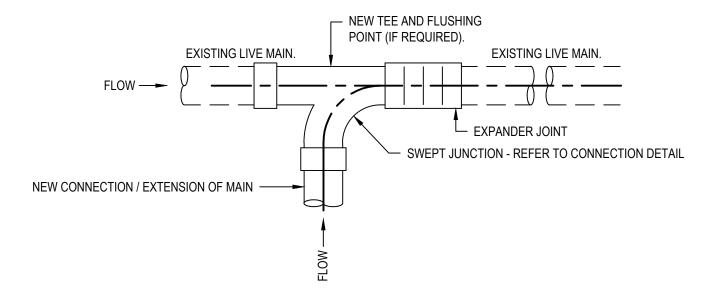
NOTES:

- 1. PIPES TO BE LOCATED CENTRALLY IN TRENCH
- 2. TRENCH BASE TO BE FIRM AND TO HAVE CONSTANT GRADE.
- B. UNEVEN TRENCHES ARE NOT ACCEPTABLE.
- 4. DEWATER TRENCH DURING CONSTRUCTION.

ALL MEASUREMENTS IN MILLIMETRES

						INFRASTRUCTURE GUIDELINES (SA)		
L						SHEET TITLE		
						TRENCH AND BACKFILL DETAILS		
В	MINOR AMENDMENTS	06.11.2018	AF	AF	MDH	CWMS	SCALE	
Α	MINOR AMENDMENTS	18.07.2017	JZ	JC	DSL	CVVIVIO	NTS @ A3	
RE\	DESCRIPTION	DATE	DES	DRW	APP		DRAWING No.	REV
THIS	THIS PROJECT HAS BEEN ASSISTED BY THE LOCAL GOVERNMENT RESEARCH AND DEVELOPMENT SCHEME AND INSTITUTE OF PUBLIC WORKS ENGINEERING AUSTRALASIA						SD 700	B

FINISHED SURFACE LEVEL



PROCEDURE:

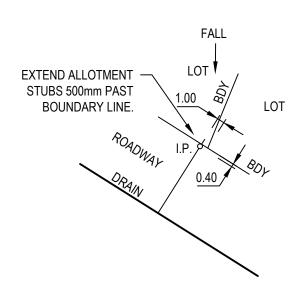
- WORKS TO BE UNDERTAKEN BY ACCREDITED PLUMBER.
- PLUMBER TO COMPLETE AND HAVE APPROVED PERMIT TO UNDERTAKE WORKS ON COUNCIL INFRASTRUCTURE.
- PLUMBER TO MAKE ARRANGEMENTS TO MANAGE EXISTING EFFLUENT FLOW, INCLUDING ALL NECESSARY SAFETY PRECAUTIONS, TO EPA REQUIREMENTS.
- ALL MATERIALS TO BE S.A.WATER APPROVED FOR WASTEWATER.
- PRIOR TO CUTTING INTO MAIN, PLUMBER TO HAVE EXPANDER JOINT, TEE AND FLUSHING POINT (IF REQ'D.) PREPARED TO ALLOW MINIMUM DISTURBANCE TO FLOW IN EXISTING MAIN.
- INSTALL EXPANDER JOINT, TEE AND FLUSHING POINT IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS AND COUNCIL DETAILS. WRAP EXPANDER JOINT IN DENSO TAPE. ALL CUT IN'S SHALL HAVE THE DENSO TAPE COATED WITH COPPER SULPHATE AND REWRAPPED WITH DUCT TAPE.

							INFRASTRUCTURE GUIDELINES (SA)		
ŀ							SHEET TITLE NEW CONNECTION / EXTENSION		
	В	MINOR AMENDMENTS	06.11.2018	AF	AF	MDH	OF MAINIC CVAMAC	SCALE	
	Α	MINOR AMENDMENTS	18.07.2017	JZ	JC	DSL	OF MAINS - CWMS	NTS @ A3	
	REV	DESCRIPTION	DATE	DES	DRW	APP		DRAWING No.	REV
	THIS PI	PROJECT HAS BEEN ASSISTED BY THE LOCAL GOVERNMENT RESEARCH AND DEVELOPMENT SCHEME AND INSTITUTE OF	PUBLIC WORKS EN	GINEERIN	NG AUSTR	ALASIA		SD 705	B

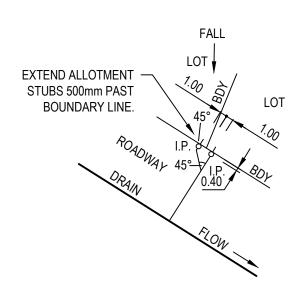
<u>LEGEND</u>

I.P. INSPECTION POINT

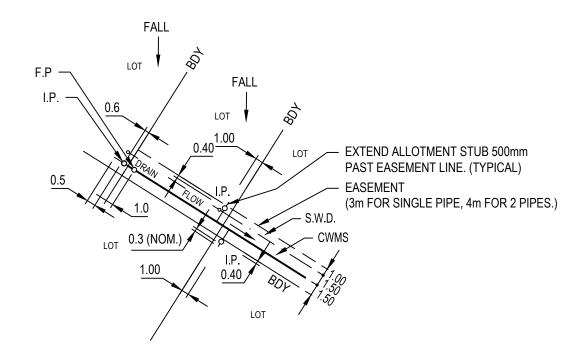
F.P. o FLUSHING POINT



FRONT OF ALLOTMENT



FRONT OF ALLOTMENT ('Y' CONN.)



REAR OF ALLOTMENT

NOTE:

1. REFER CWMS DESIGN DRAWINGS FOR I.P. LOCATIONS OTHER THAN SHOWN ABOVE.

						INFRASTRUCTURE GUIDELINES (SA)		
						SHEET TITLE		
						TYPICAL CONNECTION I.P. LOCATIONS		
В	MINOR AMENDMENTS	06.11.2018	AF	AF	MDH		SCALE	
Α	MINOR AMENDMENTS	18.07.2017	JZ	JC	DSL	CWMS	NTS @ A3	
REV	DESCRIPTION	DATE	DES	DRW	APP		DRAWING No.	REV
THIS	PROJECT HAS BEEN ASSISTED BY THE LOCAL GOVERNMENT RESEARCH AND DEVELOPMENT SCHEME AND INSTITUTE OF	F PUBLIC WORKS EN	GINEERIN	NG AUSTR	ALASIA		SD 710	B

ROADWAY LOT 1 DRAIN I.P. BDY **EXISTING** CONNECTION I.P. LOT 2 BDY EXISTING CONNECTION FLOW LOT 3 F.P. BDY I.P. LOT 4

PLAN

NOTE:

- 1. CHECK INVERT OF NEW CONNECTION IS SUFFICIENTLY DEEP TO SERVICE THE ALLOTMENT. IF TOO SHALLOW A NEW CONNECTION TO THE MAIN DRAIN WILL BE REQUIRED
- 2. WHERE CONNECTION EXCEEDS 10m A NEW CONNECTION TO THE MAIN IS REQUIRED.

ALL MEASUREMENTS IN MILLIMETRES

LEGEND

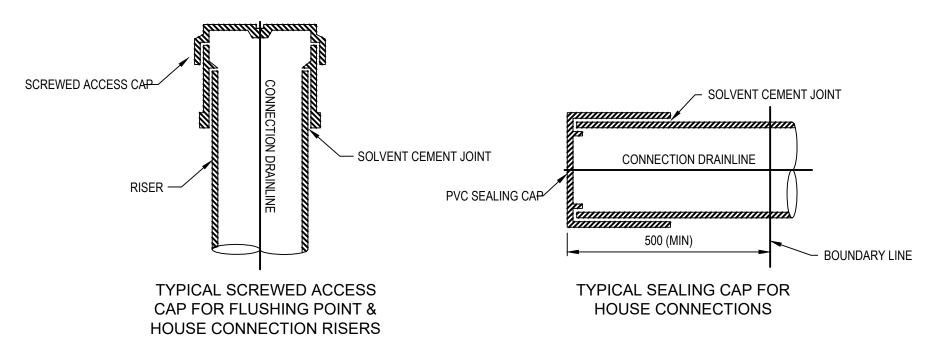
I.P.

F.P. o

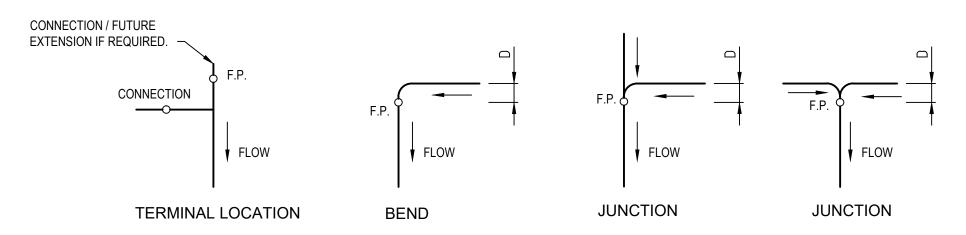
INSPECTION POINT

FLUSHING POINT

							INFRASTRUCTURE GUIDELINES (SA)		
F							SHEET TITLE 'Y' CONNECTION OFF AN EXISTING		
	В	MINOR AMENDMENTS	06.11.2018	AF	AF	MDH	CONNECTION - CWMS	SCALE	
	Α	MINOR AMENDMENTS	18.07.2017	JZ	JC	DSL	CONNECTION - CVVIVIS	NTS @ A3	
R	REV	DESCRIPTION	DATE	DES	DRW	APP		DRAWING No.	REV
Т	HIS PF	ROJECT HAS BEEN ASSISTED BY THE LOCAL GOVERNMENT RESEARCH AND DEVELOPMENT SCHEME AND INSTITUTE OF	PUBLIC WORKS EN	GINEERIN	NG AUSTR	ALASIA		SD 715	A



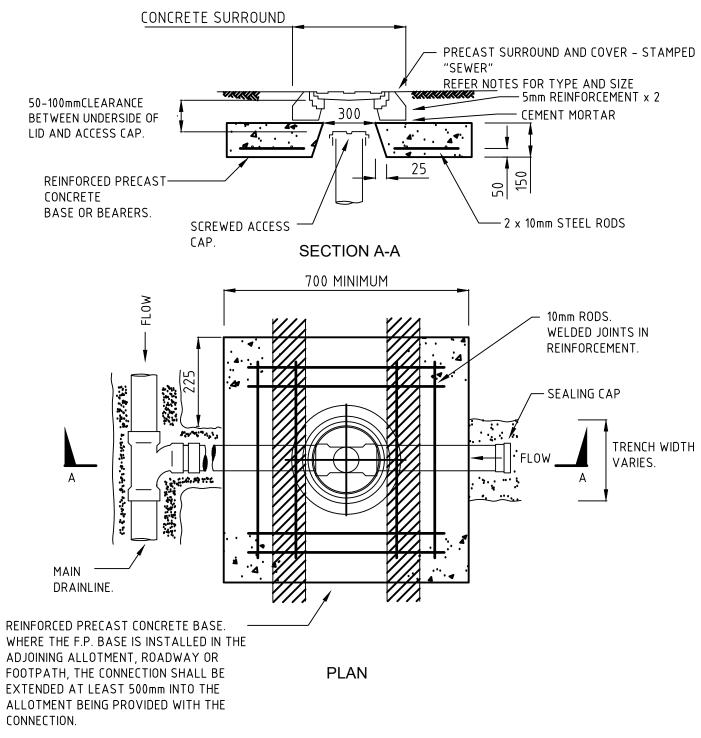
UPVC SEALING CAP DETAILS



IN LINE FLUSHING POINT LOCATIONS

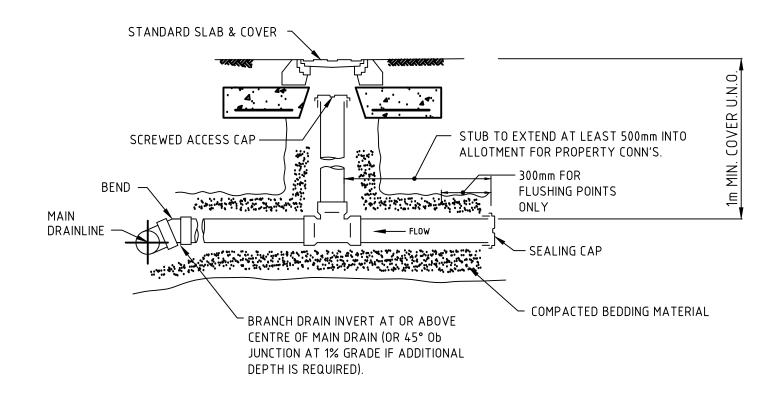
PIPE DIAMETER	OFFSET 'D'
Ø100mm	500mm
Ø150mm	600mm
Ø225mm	800mm

						INFRASTRUCTURE GUIDELINES (SA)		
						SEALING CAP DETAILS AND IN		
В	MINOR AMENDMENTS	6.11.2018	AF	AF	MDH	LINE ELLICIUNO DOINT LOCATIONS	SCALE	
Α	MINOR AMENDMENTS	18.07.2017	JZ	JC	DSL	LINE FLUSHING POINT LOCATIONS	NTS @ A3	
REV	DESCRIPTION	DATE	DES	DRW	APP	CWMS	DRAWING No.	REV
THIS P	ROJECT HAS BEEN ASSISTED BY THE LOCAL GOVERNMENT RESEARCH AND DEVELOPMENT SCHEME AND INSTITUTE OF	PUBLIC WORKS EN	IGINEERII	NG AUSTR	RALASIA		SD 720	<u> </u> B

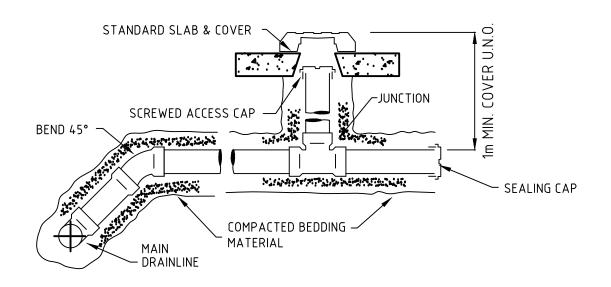


- 1. "TYPE 1" SLAB AND COVER TO BE USED IN ROADS, ROAD RESERVES AND ALL TRAFFICABLE AREAS.
- 2. "TYPE 2" SLAB AND COVER TO BE USED IN REAR OF ALLOTMENT ONLY NON TRAFFICABLE AREAS.
- 3. ALL ON LINE FLUSHING POINTS & ALLOTMENT CONNECTION I.P.S "TYPE 1" TO HAVE PRECAST CONCRETE BASE.
- 4. USE 100X100X1000 LONG PERMAPINE OR EQUIVALENT BEARERS IN LIEU OF CONCRETE BASE FOR ALLOTMENT CONNECTION I.P.S "TYPE 2". BEARERS TO SPAN PERPENDICULAR TO TRENCH AND BE FOUNDED MIN. 200mm ONTO FIRM SOIL.
- 5. CAST IRON COVER SIZE TO BE 150mm FOR Ø100mm RISER AND 230mm FOR Ø150mm RISER

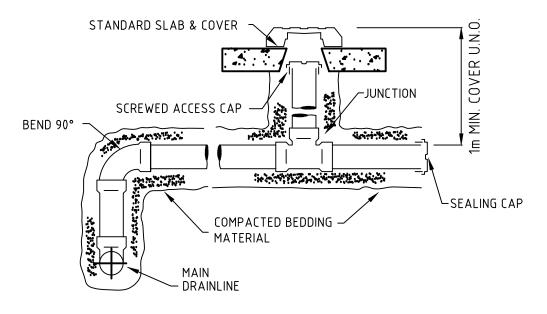
						INFRASTRUCTURE GUIDELINES (SA)		
						SHEET TITLE TYPICAL CONNECTION AND		
В	MINOR AMENDMENTS	6.11.2018	AF	AF	MDH	FLUSHING POINT COVER DETAILS	SCALE	
Α	MINOR AMENDMENTS	18.07.2017	JZ	JC	DSL		NTS @ A3	
REV	DESCRIPTION	DATE	DES	DRW	APP	CWMS	DRAWING No.	REV
THIS P	ROJECT HAS BEEN ASSISTED BY THE LOCAL GOVERNMENT RESEARCH AND DEVELOPMENT SCHEME AND INSTITUTE OF	PUBLIC WORKS EN	GINEERIN	IG AUSTR	ALASIA		SD 725	<u> </u> B



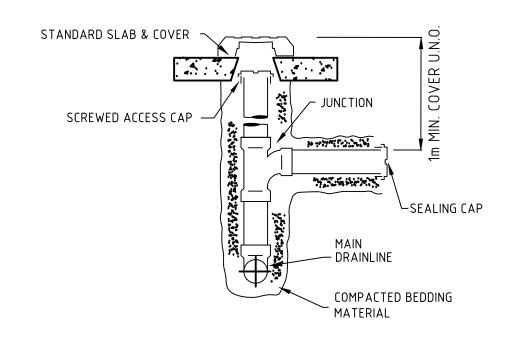
ELEVATION



[A] (CONNECTION ONLY)

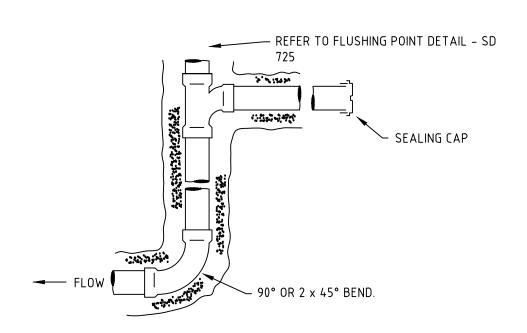


[B] (CONNECTION ONLY)

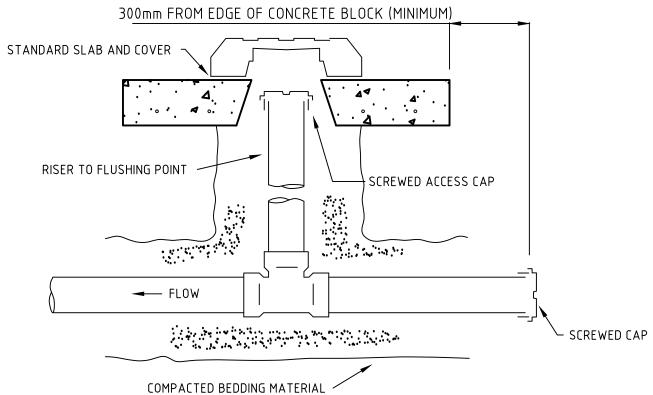


[C] (FP OR CONNECTION)

						INFRASTRUCTURE GUIDELINES (SA)		
						SHEET TITLE		
						FLUSHING POINT OR MAXIMUM DEPTH		
В	MINOR AMENDMENTS	06.11.2018	AF	AF	MDH	CONNECTIONS - CWMS	SCALE	
Α	MINOR AMENDMENTS	18.07.2017	JZ	JC	DSL	CONNECTIONS - CVVIVIS	NTS @ A3	
REV	DESCRIPTION	DATE	DES	DRW	APP		DRAWING No.	REV
THIS	IS PROJECT HAS BEEN ASSISTED BY THE LOCAL GOVERNMENT RESEARCH AND DEVELOPMENT SCHEME AND INSTITUTE OF PUBLIC WORKS ENGINEERING AUSTRALASI						SD 730	B



ELEVATION
SET UP WITH FLUSHING POINT AND CONNECTION

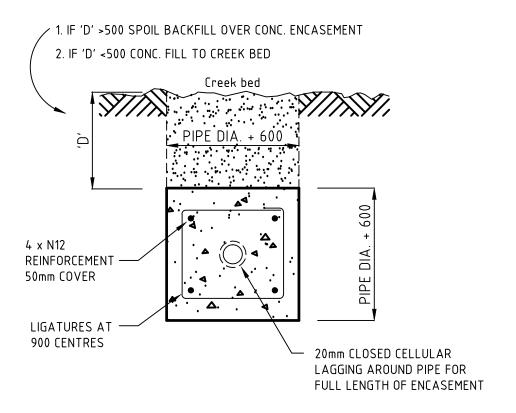


ELEVATION TERMINAL OF DRAIN LINE AND F.P.

(WITH OPTIONAL CONNECTION SHOWN)

NOTE: IF CONNECTION NOT REQUIRED, OMIT STUB AND REPLACE TEE WITH 90° BEND RISER

							INFRASTRUCTURE GUIDELINES (SA)		
							SHEET TITLE TERMINAL OF DRAIN LINE &		
	В	MINOR AMENDMENTS	06.11.2018	AF	AF	MDH		SCALE	
Ī	Α	MINOR AMENDMENTS	18.07.2017	JZ	JC	DSL	FLUSHING POINT - CWMS	NTS @ A3	
ı	REV	DESCRIPTION	DATE	DES	DRW	APP		DRAWING No.	REV
	THIS PI	ROJECT HAS BEEN ASSISTED BY THE LOCAL GOVERNMENT RESEARCH AND DEVELOPMENT SCHEME AND INSTITUTE OF	PUBLIC WORKS EN	GINEERII	NG AUSTF	RALASIA		SD 735	B

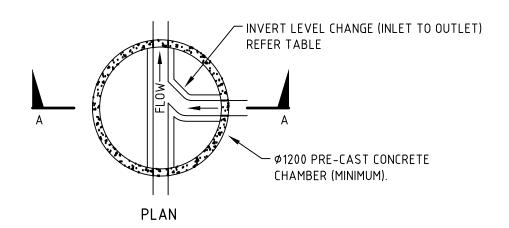


TYPICAL CONCRETE ENCASEMENT OF DRAIN OR RISING MAIN THROUGH CREEKS

NOTES:

- 1. CONCRETE ENCASEMENT TO EXTEND 1m EACH SIDE OF INVERT OF CREEK.
- 2. SUPPORT PIPE DURING CONSTRUCTION TO MAINTAIN GRADE.

						INFRASTRUCTURE GUIDELINES (SA)		
\vdash						SHEET TITLE TYPICAL CONCRETE ENCASEMENT OF		
В	MINOR AMENDMENTS	6.11.2018	AF	AF	MDH		SCALE	
Α	MINOR AMENDMENTS	18.07.2017	JZ	JC	DSL	DRAIN OR RISING MAIN THROUGH	NTS @ A3	
REV	DESCRIPTION	DATE	DES	DRW	APP	CREEKS - CWMS	DRAWING No.	REV
THIS	S PROJECT HAS BEEN ASSISTED BY THE LOCAL GOVERNMENT RESEARCH AND DEVELOPMENT SCHEME AND INSTITUTE OF PUBLIC WORKS ENGINEERING AUSTRALASIA						SD 740	B

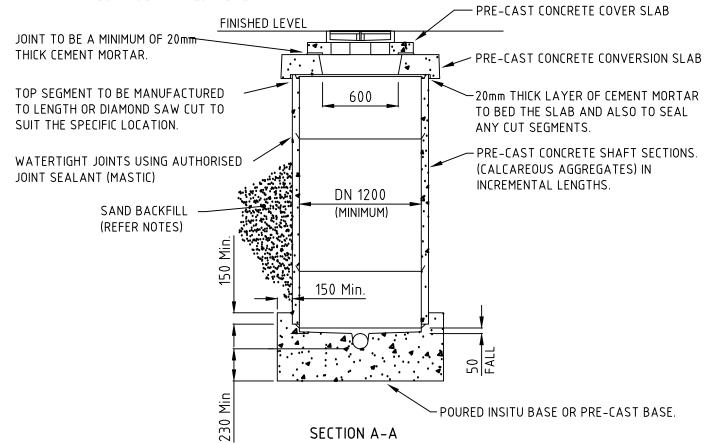


INVERT LEVEL CHANGE ACROSS MANHOLES							
CHANGE IN FLOW DIRECTION	MINIMUM FALL ACROSS PIT						
STRAIGHT THROUGH OR FOR BENDS <45°	MAINTAIN PIPE GRADE						
FOR BENDS 45° TO 90°	30mm						
FOR BENDS > 90°	60mm						

 $\underline{\text{NOTES:}}$ Where PIPE DIAMETER CHANGES ACROSS MANHOLE – MATCH OBVERT LEVEL OF PIPES

NOTE:

- CAST IRON LID & FRAME WITH "GATIC" TYPE LIFTING LUGS. OR SIMILAR APPROVED CLASS 'D'.
- C.I. COVER AND FRAME TO BE A MATCHING SET WITH PRE-CAST CONCRETE COVER SLAB.
- LID TO BE STAMPED "SEWER".



NOTES:

- 1. CONCRETE TO BE 32Mpa SULPHATE RESISTANT.
- 2. LIFTING HOLES AND OTHER PERFORATIONS IN CHAMBER WALL TO BE FILLED WITH EPOXY GROUT.
- 3. SAND SHALL BE APPROVED CLEAN PIT SAND. FREE FROM CLAY, ROCKS, LOAM & VEGETABLE MATTER AND SHALL BE COMPACTED TO 95% STANDARD COMPACTION.
- 4. SCREENINGS TO BE USED WHERE GROUNDWATER IS EVIDENT.
- 5. M.H./A.C. TO BE DESIGNED FOR UPLIFT IF REQUIRED.
- 6. UNLESS VARIED BY THE ABOVE NOTES, REFER TO S.A.WATER REQUIREMENTS.

						INFRASTRUCTURE GUIDELINES (SA)		
\vdash						SHEET TITLE		
В	MINOR AMENDMENTS	6.11.2018	AF	AF	MDH	MAINTENANCE HOLE / ACCESS	SCALE	
Α	MINOR AMENDMENTS	18.07.2017	JZ	JC	DSL	CHAMBER (MH / AC) - CWMS	NTS @ A3	
REV	DESCRIPTION	DATE	DES	DRW	APP		DRAWING No.	REV
THIS	PROJECT HAS BEEN ASSISTED BY THE LOCAL GOVERNMENT RESEARCH AND DEVELOPMENT SCHEME AND INSTITUTE O	F PUBLIC WORKS EN	GINEERIN	NG AUSTF	RALASIA		SD 745	B