



STANDARD DRAWINGS

STANDARD DRAWING INDEX

STANDARD DRAWING NUMBER	DESCRIPTION	REVISION	STANDARD DRAWING NUMBER	DESCRIPTION	REVISION
	ROAD CONSTRUCTION			VEHICLE CROSSINGS CON'T	
EDCM 201	ROAD PAVEMENT JOINT	1	MCC 501	SINGLE RESIDENTIAL VEHICLE CROSSING	G
EDCM 202a	SUBSURFACE DRAIN BACK OF KERB FOR EXPANSIVE SUBGRADE	1	MCC 502	EXTENSION OF CROSSOVER	E
EDCM 202b	SUBSURFACE DRAIN BACK OF KERB FOR NON-EXPANSIVE SUBGRADE	1	MCC 503	DOUBLE RESIDENTIAL VEHICLE CROSSING	D
MCC 202	SUB-SURFACE DRAIN BACK OF KERB	B	MCC 504	INDUSTRIAL VEHICLE CROSSING	F
MCC 203	ROUNDAABOUT CENTRAL ISLAND	B	MCC 505	RURAL VEHICLE CROSSING FOR SHALLOW TABLE DRAINS	E
MCC 204	INDENTED PARKING BAY	B	MCC 506	RURAL PIPED CULVERT VEHICLE CROSSING	D
MCC 205	SIGNAGE OFFSET AND INSTALLATION	C	MCC 507	RURAL PIPED CULVERT VEHICLE CROSSING WITH ASPHALT SURFACING	A
MCC 206	SERVICE UTILITIES DETAIL	B			
				DRAINAGE PITS	
			EDCM 601	SIDE ENTRY PIT GRATED B2 KERB & CHANNEL	0
	KERB & CHANNELS		EDCM 602	DOUBLE ENTRY PIT GRATED B2 KERB & CHANNEL	0
EDCM 301	BARRIER KERB, EDGE AND INVERT PROFILES	0	EDCM 603	SIDE ENTRY PIT GRATED SM2 KERB & CHANNEL	0
EDCM 302	SEMI MOUNTABLE & MOUNTABLE KERB PROFILES	0	EDCM 604	DOUBLE ENTRY PIT GRATED SM2 KERB & CHANNEL	0
EDCM 303	KERB MARKINGS	0	EDCM 605	900 X 600 JUNCTION PIT UP TO 3600mm DEPTH	0
MCC 304	MELTON COUNCIL SPECIFIC KERBS	E	EDCM 606	900 X 600 JUNCTION PIT 3601mm TO 10800mm DEPTH	0
MCC 305	SPLITTER ISLANDS	D	EDCM 607	HAUNCHED JUNCTION PIT UP TO 3600mm DEPTH	0
MCC 306	SI1 TYPE SPLITTER ISLAND TYPICAL LAYOUT	D	EDCM 608	HAUNCHED JUNCTION PITS 3601mm TO 10,800mm DEPTH	0
MCC 307	SI3 TYPE SPLITTER ISLAND TYPICAL LAYOUT	E	EDCM 609	STEP IRONS	0
MCC 308	SI3 SPLITTER ISLAND LAYOUT ON 90 DEGREES BENDS	C	MCC 610	SIDE ENTRY PIT	C
			MCC 611	MODIFIED SIDE ENTRY PIT	B
	PATHS		MCC 612	MODIFIED SIDE ENTRY PITS WITH EXISTING CATCH PITS	B
EDCM 401	CONCRETE FOOTPATH CROSS SECTIONS AND JOINTS	0	MCC 613	AUXILIARY CHANNEL PIT	C
MCC 402	CONCRETE JOINT DETAILS	A			
MCC 403	PRAM CROSSING	C		DRAINAGE INCIDENTALS	
MCC 404	TACTILE SURFACE INDICATORS DETAIL	A	EDCM 701	PROPERTY INLET – TYPE A	0
			EDCM 702	PROPERTY INLET – TYPE A	0
	VEHICLE CROSSINGS		EDCM 703	PROPERTY INLET – TYPE A	0
EDCM 501	RESIDENTIAL VEHICLE CROSSING – SINGLE	0	MCC 704	PIPE BEDDING & RE-INSTATEMENTS	F
EDCM 502	RESIDENTIAL VEHICLE CROSSING – DOUBLE	0			
EDCM 503	HEAVY DUTY VEHICLE CROSSING	0			

ISSUE	APPD	DATE	AMENDMENT
J	M.H.	25/09/2020	UPDATED EDCM 201, MCC 704, CREATED MCC 202a AND MCC 202b
I	M.H.	08/03/2019	AMENDED MCC 201, ADDED MCC 507
H	M.H.	01/03/2019	AMENDED MCC 504
G	M.H.	08/06/2018	REMOVED EDCM 202, REPLACED WITH MCC 202
F	M.H.	08/06/2018	ADDED MCC 404 AND MINOR AMENDMENTS TO DRAWINGS

GENERAL NOTES

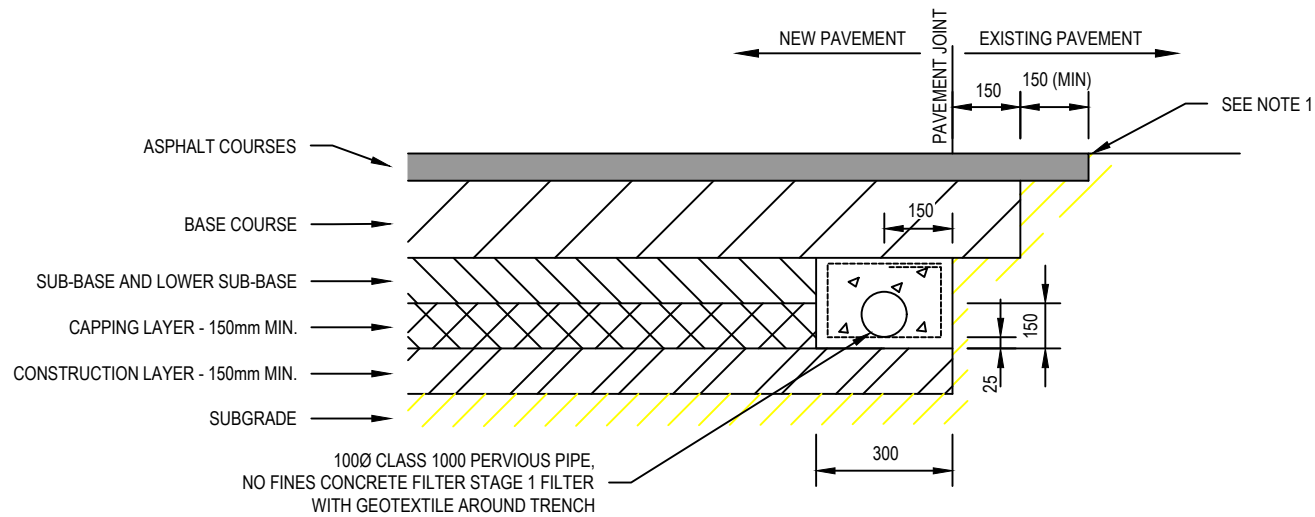


DESIGN	L.SHE
DRAWN	L.SHE
CHECKED	M.HUTCHINSON
DATE	JUN 16

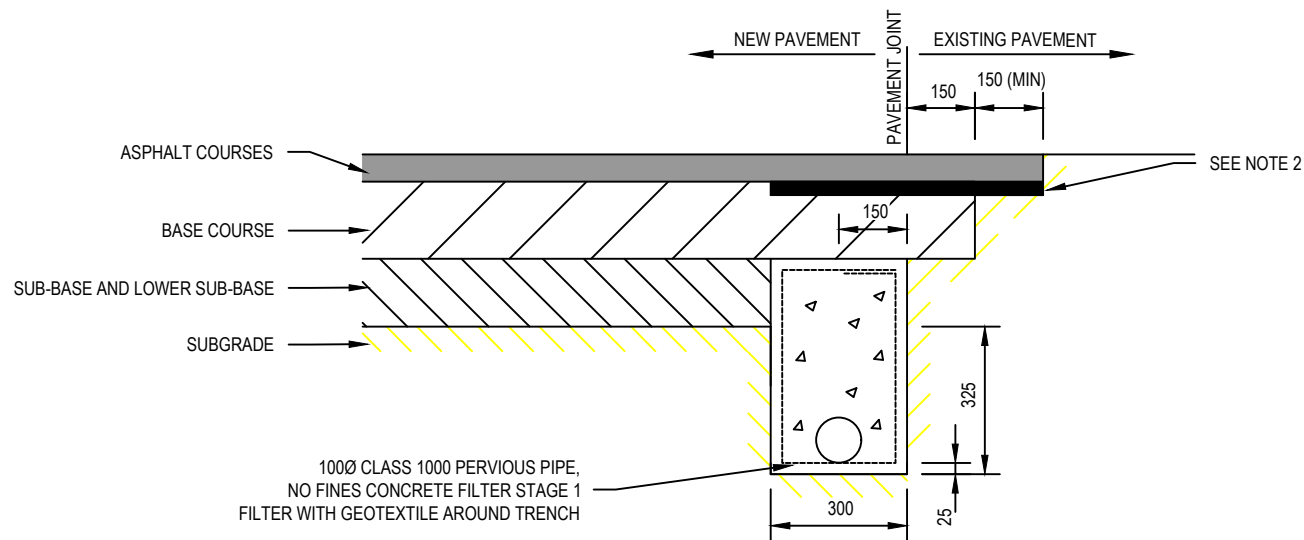
PROJECT	STANDARD DRAWINGS - MCC 001
DETAILS	STANDARD DRAWINGS INDEX

N.T.S.	
SHEET 1 OF 1	PAPER A4
DRAWING No.	REV J
FILE NAME MCC001 - INDEX.DWG	

17/9/2020 4:21:24 PM



EXPANSIVE SUBGRADE
NOT TO SCALE



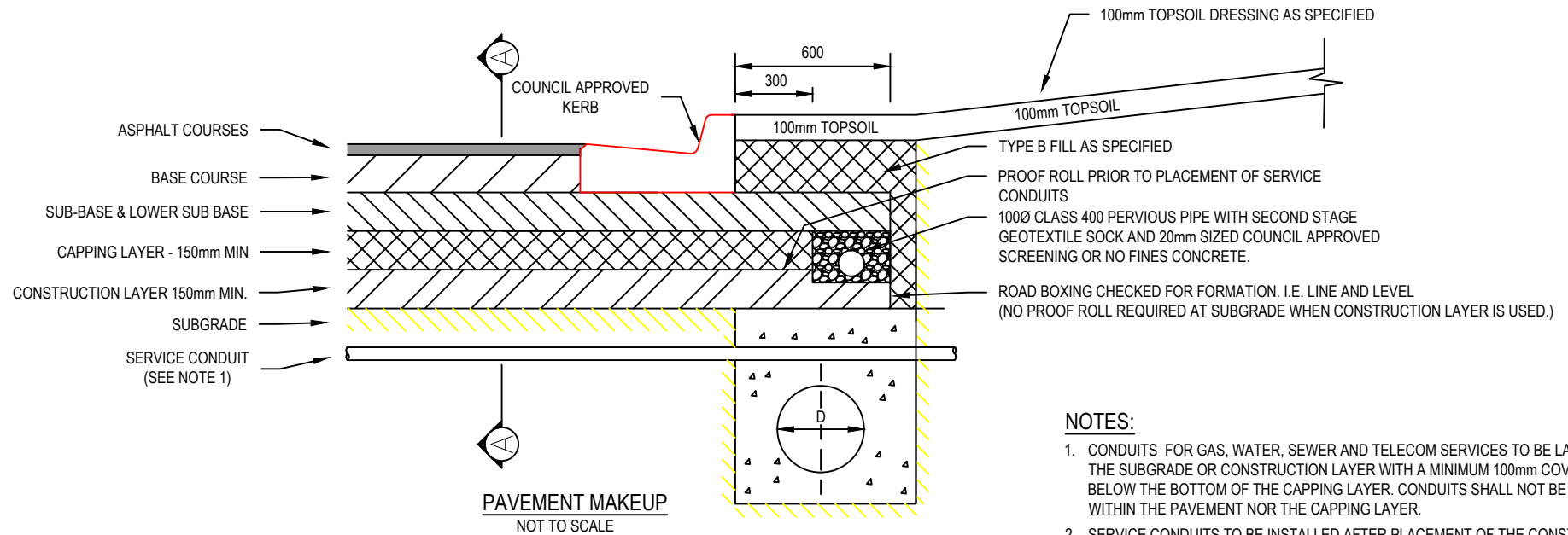
NON EXPANSIVE SUBGRADE
NOT TO SCALE

NOTES:

1. FOR EXPANSIVE SUBGRADE, SAW CUT EXISTING ASPHALT. REFER TO SPECIFICATION SECTION 407.17 FOR JOINT DETAIL. APPLY PRIME AND SAMI TO EXISTING PAVEMENT.
2. FOR NON EXPANSIVE SUBGRADE, SAW CUT EXISTING ASPHALT. REFER TO SPECIFICATION SECTION 407.17 FOR JOINT DETAIL. PLACE 600mm MIN WIDE STRESS ABSORBING MEMBRANE. GEOTEXTILE TO BE LOCATED CENTRALLY OVER PAVEMENT JOINT.
3. SUBSURFACE DRAINS TO BE PROVIDED BEFORE THE CONSTRUCTION OF THE PAVEMENT.
4. CONDUITS FOR GAS, WATER, ELECTRICITY AND TELECOM SERVICES TO BE LOCATED CLEAR OF PAVEMENT AND THE SUBSURFACE DRAIN.
5. THE JOINT BETWEEN NEW AND OLD WEARING COURSE TO BE CRACK SEALED.
6. THE JOINT BETWEEN NEW AND OLD WEARING COURSE MUST BE CONSTRUCTED AT A LOCATION OUTSIDE THE WHEEL PATH ZONE.
7. CONSTRUCTION LAYERS AND CAPPING LAYER MATERIAL MUST HAVE THE FOLLOWING SPECIFICATIONS:
 - MIN. CBR=8%,
 - MAX. SWELL=1.5%,
 - MAX. PERMEABILITY=5x10⁻⁹ m/s

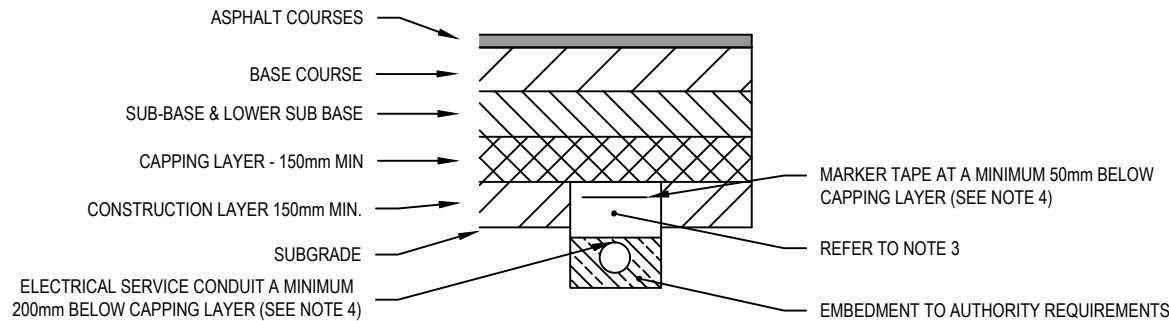
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date
1	Revised		LS	VD	-	15.06.20
0	FINAL ISSUE		JP	MM	-	16.11.15





NOTES:

1. CONDUITS FOR GAS, WATER, SEWER AND TELECOM SERVICES TO BE LAID WITHIN THE SUBGRADE OR CONSTRUCTION LAYER WITH A MINIMUM 100mm COVER BELOW THE BOTTOM OF THE CAPPING LAYER. CONDUITS SHALL NOT BE PLACED WITHIN THE PAVEMENT NOR THE CAPPING LAYER.
2. SERVICE CONDUITS TO BE INSTALLED AFTER PLACEMENT OF THE CONSTRUCTION LAYER AT A GRADE OF 1 IN 100 FALLING TO THE SIDE OF THE PROPOSED UTILITY MAIN
3. SERVICE TRENCH BACKFILL TO BE 20mm CLASS 3 CR, RECYCLED CONCRETE OR COUNCIL APPROVED EQUIVALENT
4. FOR ELECTRICAL SERVICES, WHERE THE CONDUIT IS GREATER THAN 200mm BELOW THE CAPPING LAYER, THE MARKER TAPE MUST BE PLACED 150mm ABOVE THE CONDUIT OR PER THE ELECTRICAL AUTHORITY'S REQUIREMENTS
5. CONSTRUCTION LAYERS AND CAPPING LAYER MATERIAL MUST HAVE THE FOLLOWING SPECIFICATIONS:
 - MIN. CBR=8%,
 - MAX. SWELL=1.5%,
 - MAX. PERMEABILITY=5x10⁻⁹ m/s
6. ALL DIMENSIONS IN MILLIMETRES WHERE NOT SPECIFIED



SECTION A-A FOR ELECTRICAL SERVICE CONDUITS ONLY
NOT TO SCALE

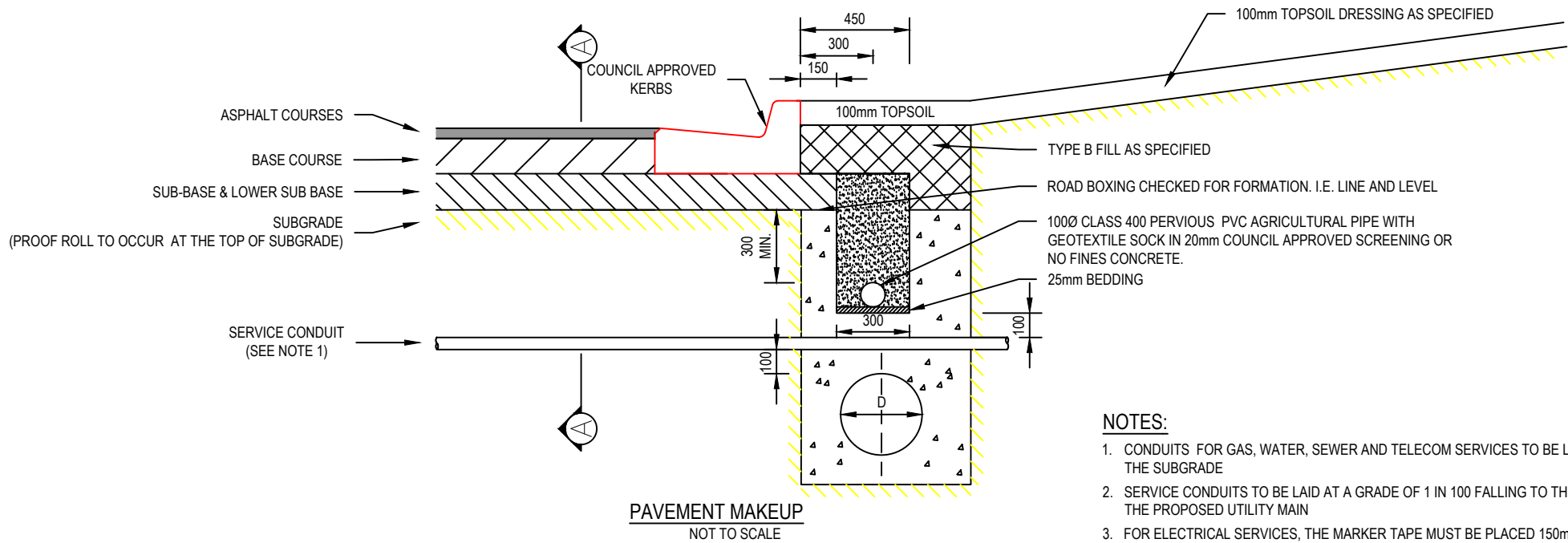
REVISION 1

No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date
1	REVISED		LS	VD	-	25.06.00
0	FINAL ISSUE		DG	MM	-	16.11.15

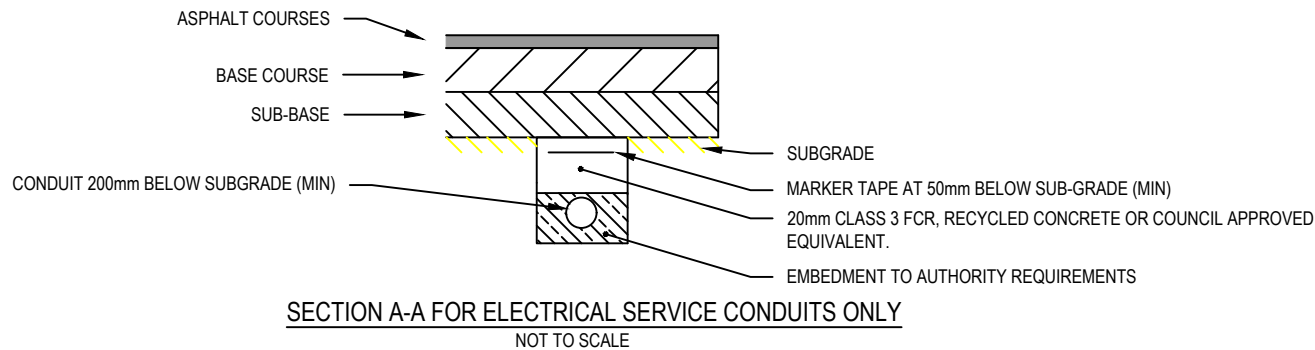


STANDARD DRAWINGS FOR
SUBDIVISIONS IN GROWTH AREAS
**SUBSURFACE DRAIN
BACK OF KERB FOR
EXPANSIVE SUBGRADE**

Revision | 1
Date | DEC 2015
EDCM 202a



- NOTES:**
1. CONDUITS FOR GAS, WATER, SEWER AND TELECOM SERVICES TO BE LAID WITHIN THE SUBGRADE
 2. SERVICE CONDUITS TO BE LAID AT A GRADE OF 1 IN 100 FALLING TO THE SIDE OF THE PROPOSED UTILITY MAIN
 3. FOR ELECTRICAL SERVICES, THE MARKER TAPE MUST BE PLACED 150mm ABOVE THE CONDUIT OR PER ELECTRICAL AUTHORITY'S REQUIREMENTS.
 4. ALL DIMENSIONS IN MILLIMETRES WHERE NOT SPECIFIED

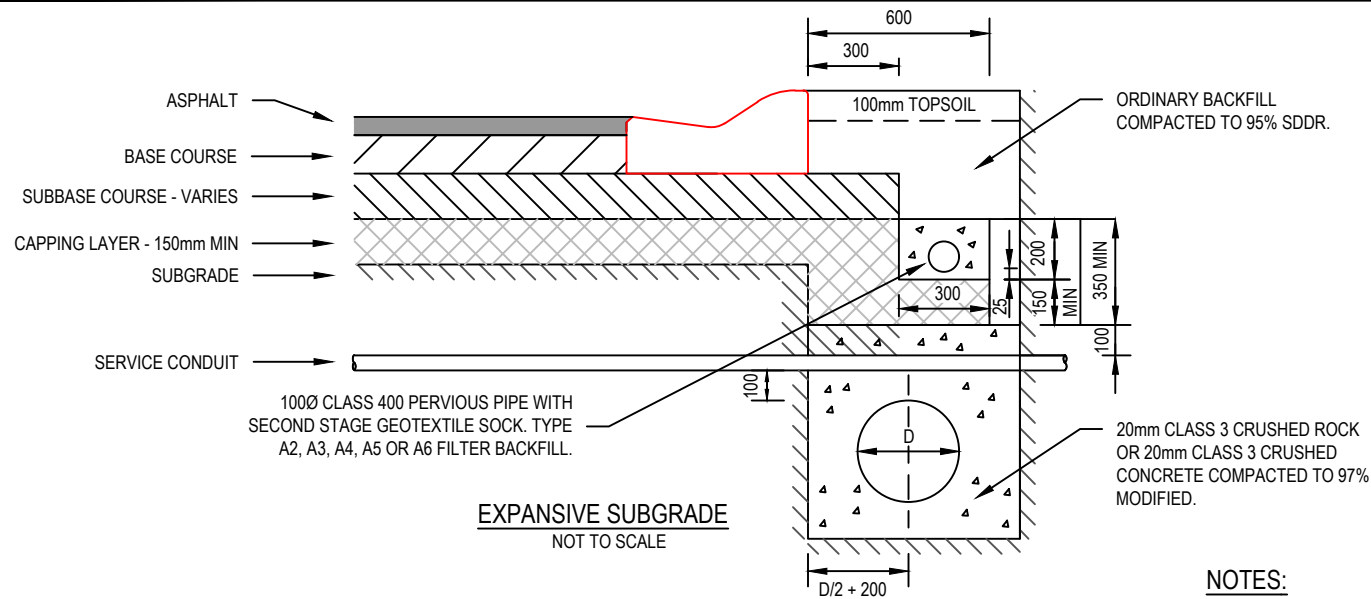


No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date
1	REVISED		LS	VD	-	28.08.20
0	FINAL ISSUE		DG	MM	-	16.11.15



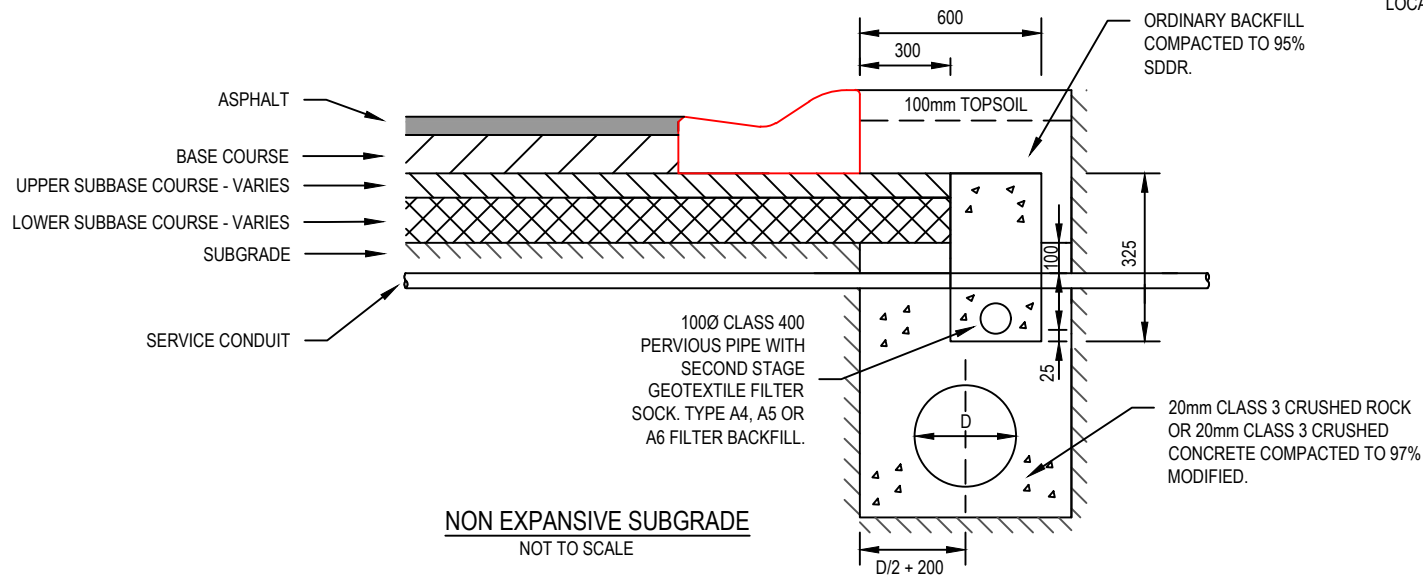
STANDARD DRAWINGS FOR
SUBDIVISIONS IN GROWTH AREAS
**SUBSURFACE DRAIN
BACK OF KERB FOR
NON-EXPANSIVE SUBGRADE**

Revision | 1
Date | AUG 2020
EDCM 202b



NOTES:

1. CONDUITS FOR GAS, WATER, ELECTRICITY AND TELECOM SERVICES TO BE LOCATED CLEAR OF PAVEMENT AND THE SUBSURFACE DRAIN.



8/3/2019 12:04:00 PM

ISSUE	APPD	DATE	AMENDMENT
E			
D			
C			
B	M.H	08/03/19	REVISED FILTER MATERIAL
A	M.H	26/02/19	BASED ON EDCM 202. MOVED SUBSURFACE DRAIN LOCATION.

GENERAL NOTES

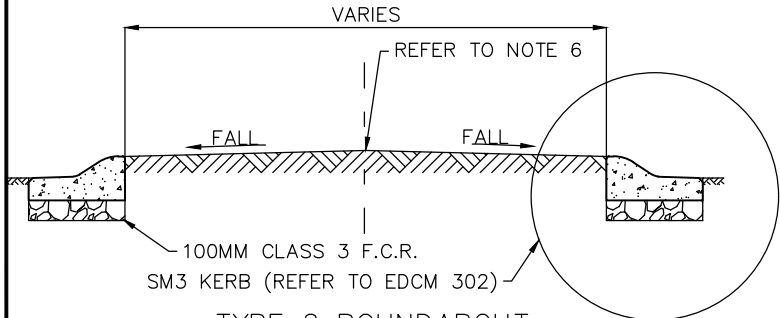
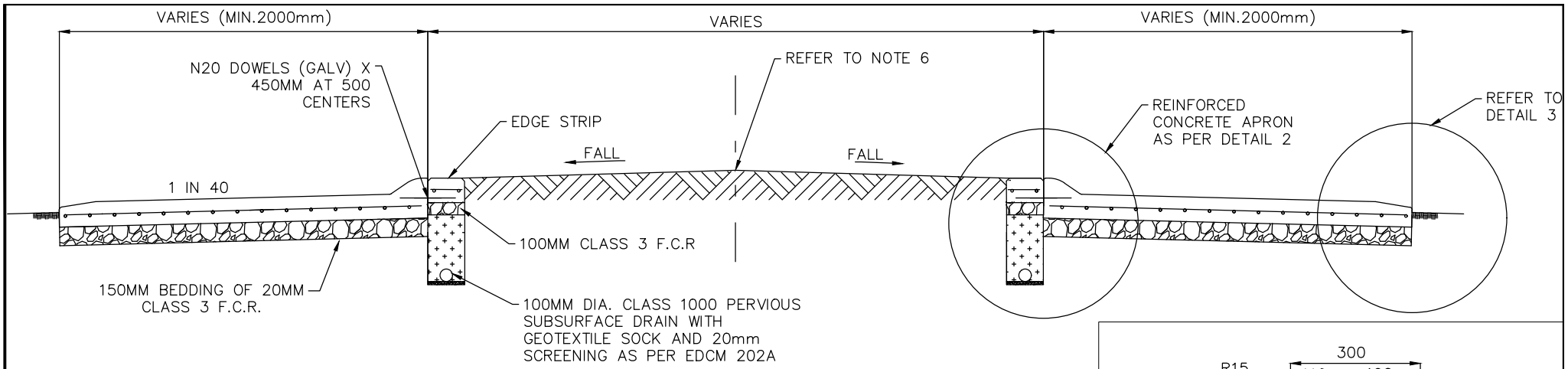


DESIGN	L.SHE
DRAWN	L.SHE
CHECKED	M.HUTCHINSON
DATE	FEB 2019

PROJECT
STANDARD DRAWING - MCC 202

DETAILS
SUBSURFACE DRAIN
BACK OF KERB

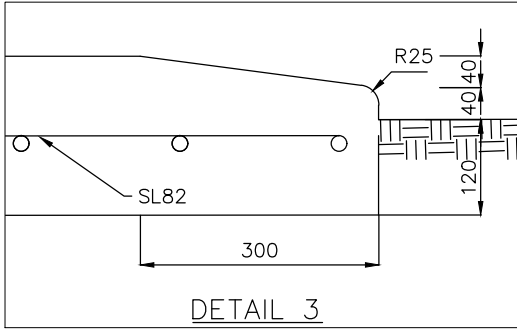
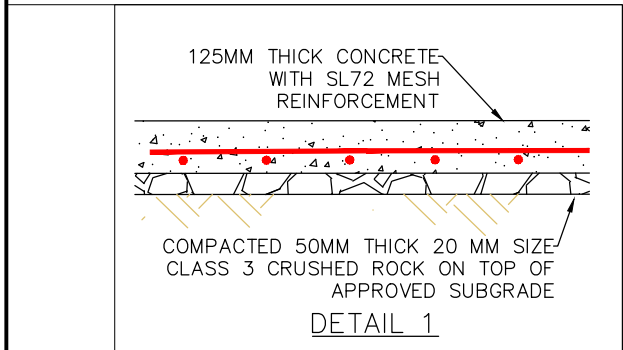
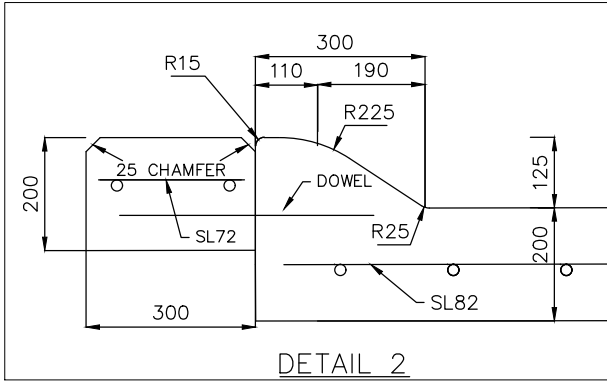
N.T.S.	
SHEET 1 OF 1	PAPER A4
DRAWING No.	REV B
FILE NAME MCC 202 - SUBSURFACE DRAIN BACK OF KERB.DWG	



TYPE 1 ROUNDABOUT

NOTES

1. TYPE 1 ROUNDABOUT IS USED FOR:
 - 1.1. ROADS THAT ARE PREDOMINANTLY USED BY HEAVY VEHICLES SUCH AS INDUSTRIAL/COMMERCIAL ESTATES, AND RESIDENTIAL CONNECTOR ROADS
2. TYPE 2 ROUNDABOUT IS USED FOR ROADS OTHER THAN NOTE 1.
3. SM3 KERB TO BE CONSTRUCTED AS PER EDMC 302.
4. CONCRETE STRENGTH TO BE N32.
5. LANDSCAPED TREATMENTS ACCEPTED IN CENTRAL ISLAND OF ROUNDABOUT:
 - 5.1. VEGETATED – IN ACCORDANCE WITH "LANDSCAPE GUIDELINES FOR THE CITY OF MELTON"
 - 5.2. PAVED – AS PER DETAIL 1
6. RELEVANT SIGNAGE MUST BE INSTALLED AT THE ROUNDABOUT AS PER AS 1742.2.



ISSUE	APPD	DATE	AMENDMENT
E			
D			
C	L.S	09/23	UPDATED STEEL REINFORCEMENT
B	M.H.	05/16	REVIEWED AND UPDATED DESIGN
A	V.C.D	01/09	INITIAL DESIGN

GENERAL NOTES



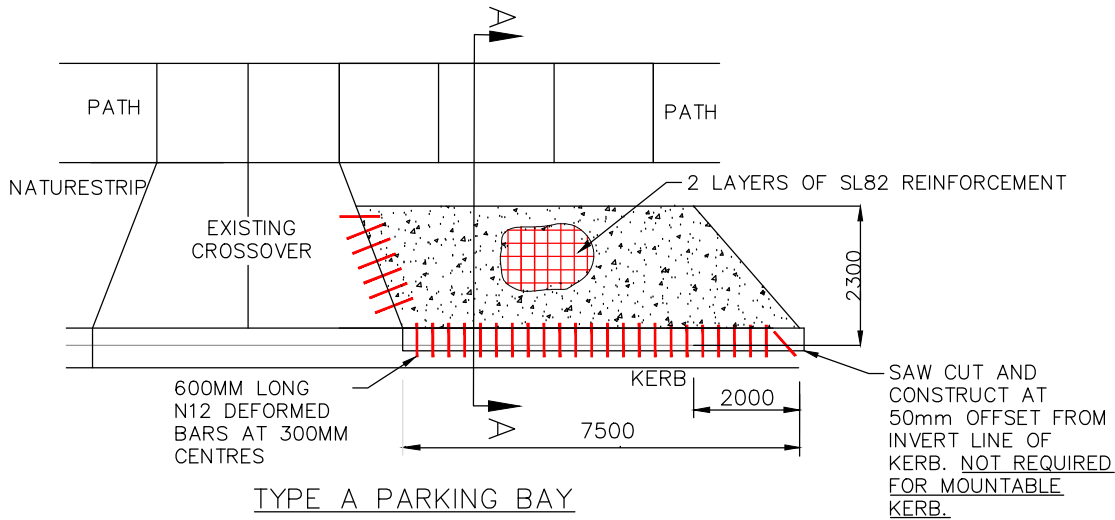
DESIGN	L.SHE
DRAWN	L.SHE
CHECKED	M.HUTCHINSON
DATE	APRIL 2016

PROJECT
STANDARD DRAWING - MCC 203

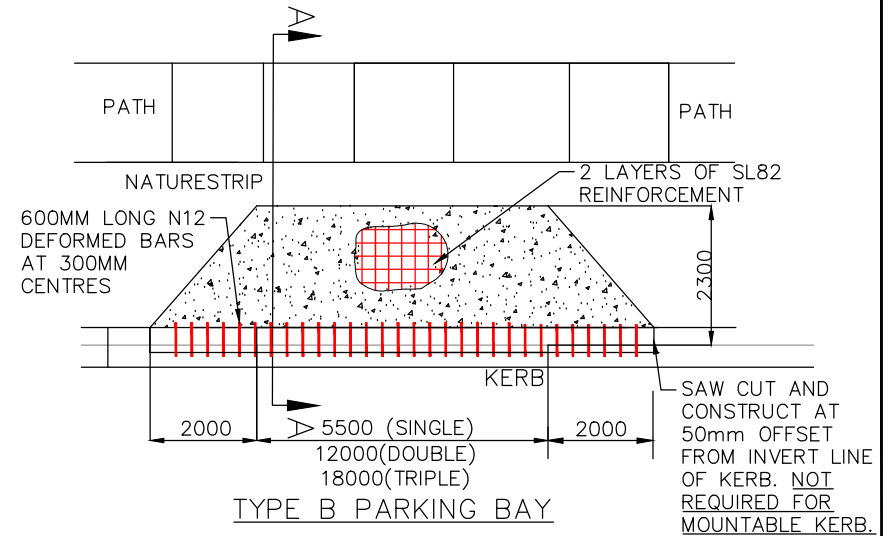
DETAILS
ROUNDABOUT CENTRAL ISLAND

N.T.S.	
SHEET 1 OF 1	PAPER A4
DRAWING No.	REV C
FILE NAME MCC 203 - ROUNDABOUT CENTRAL ISLAND.DWG	

4/9/2023 4:51:00 PM

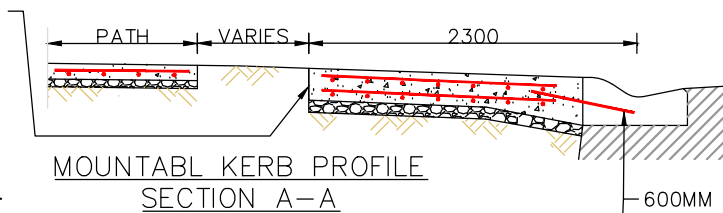


TYPE A PARKING BAY

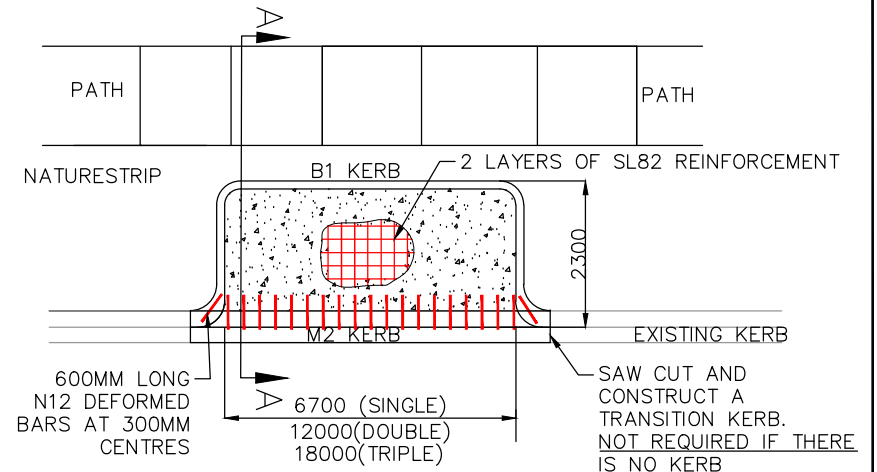
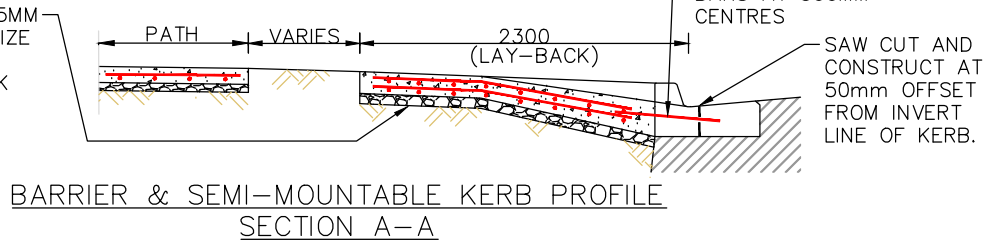


TYPE B PARKING BAY

200MM THICK CONCRETE WITH TWO LAYERS OF SL82 MESH REINFORCEMENT. CONCRETE TO HAVE A 70MM SLUMP AND BE OF STRENGTH 25 MPA.



COMPACTED 75MM THICK 20MM SIZE CLASS 3 CRUSHED ROCK ON TOP OF APPROVED SUBGRADE.



TYPE C PARKING BAY

NOTES:

1. REINFORCEMENT MESH TO BE CENTRALLY PLACED THROUGHOUT CROSSING. MINIMUM 50MM COVER AT ALL TIMES. APPROVED BAR CHAIRS MUST BE USED FOR PROPER PLACEMENT OF REINFORCEMENT. JOINTS TO OVERLAP ONE FULL PATTERN AS PER AS 3600 & AS2870.1.
2. NATURE STRIPS TO BE MADE FLUSH WITH NEW CONCRETE WORKS AND SHALL BE OF APPROVED TOP SOIL AND SEED.
3. CONCRETE STRENGTH TO BE 25 MPA AT 28 DAYS.
4. FOR A DOUBLE OR TRIPLE PARKING BAY, WEAKENED PLANE JOINT TO BE PROVIDED AT 6M INTERVALS.
5. CLASS 3 CRUSHED CONCRETE CAN BE USED AS BEDDING MATERIAL IN PLACE OF CLASS 3 CRUSHED ROCK

17/1/2017 1:56:58 PM

ISSUE	APP'D	DATE	AMENDMENT
E			
D			
C			
B	M.H.	05/16	REVIEWED AND UPDATED DESIGN
A	V.C.D	01/09	INITIAL DESIGN

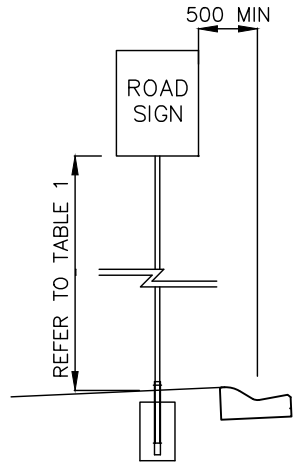
GENERAL NOTES	



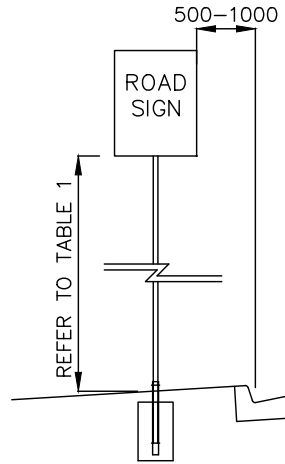
DESIGN	L.SHE
DRAWN	L.SHE
CHECKED	M.HUTCHINSON
DATE	APRIL 2016

PROJECT	STANDARD DRAWING - MCC 204
DETAILS	INDENTED PARKING BAY

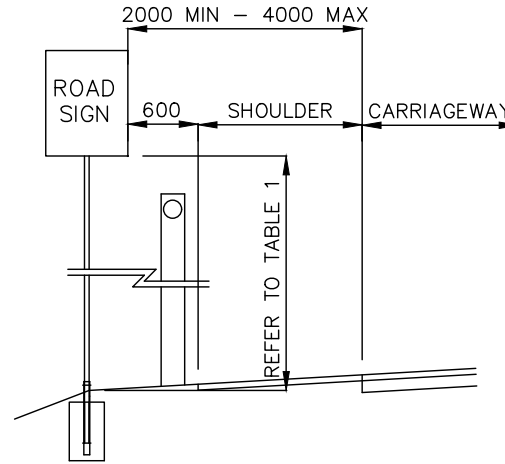
N.T.S.	
SHEET 1 OF 1	PAPER A4
DRAWING No.	REV B
FILE NAME MCC 204 - INDENTED PARKING BAY.DWG	



FULLY OR SEMI MOUNTABLE KERB



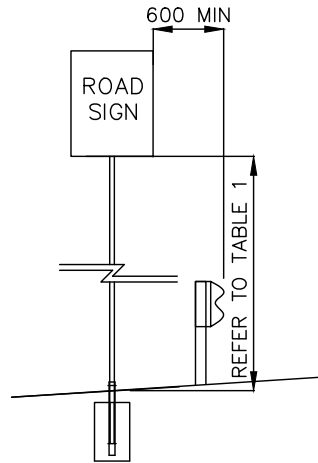
NON MOUNTABLE KERB



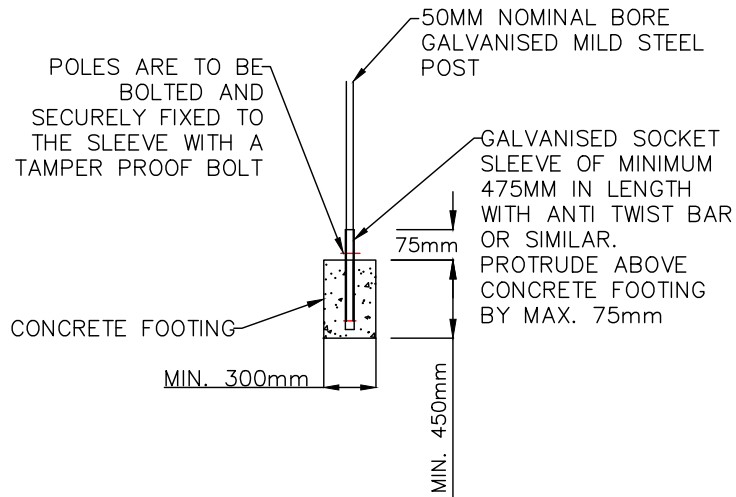
SHOULDER ONLY

NOTES

1. REFER TO MCC 305 FOR SIGNAGE INSTALLATION ON SPLITTER ISLAND.
2. POSTS NOT TO PROTRUDE ABOVE THE TOP OF THE SIGN AND TO HAVE CAPS.
3. ALL SIGNS TO BE INSTALLED AND DESIGNED IN ACCORDANCE TO AS 1742. AND AS 1744.
4. THE MINIMUM PERMISSIBLE VERTICAL HEIGHTS MEASURED FROM THE LOWER EDGE OF THE SIGN OR GROUP OF SIGNS ON THE ONE MOUNTING, TO THE LEVEL OF THE NEAREST EDGE OF THE ROAD TO WHICH THE SIGN APPLIES AS PER TABLE 1.
5. SIGNS TO BE BOLTED AND SECURELY FIXED TO THE POLE
6. POLES TO BE BOLTED AND SECURELY FIXED TO THE SLEEVE.



BEHIND GUARD FENCE



FOOTING DETAIL

SIGNAGE MOUNTING HEIGHT		
A	RURAL ROADS: ALL SIGN EXCEPT AS IN (E)	1.5m
B	URBAN ROADS: KERBSIDE WITH NO PARKING	2.0m
C	URBAN ROADS: KERBSIDE WITH PARKING	2.2m
D	ALL SIGNS ON MEDIANS OR TRAFFIC ISLANDS EXCEPT AS IN (E) AND (F)	1.5m
E	ALL INTERSECTION DIRECTION SIGNS EXCEPT WHERE SIGN OBSTRUCTION PROBLEMS DICTATE SPECIAL MOUNTING HEIGHTS	2m or 2.2m (see(C))
F	HAZARD MARKER SIGNS (EXCEPT WHERE USED AS T-JUNCTION SIGHT BOARDS, SEE (A), (B) OR (C)). KEEP LEFT SIGN ON LOCAL URBAN ROADS	0.5m to 0.7m
G	SIGN MOUNTED ON BREAKAWAY POSTS LARGER THAN 50MM NOMINAL BORE PIPE. HEIGHT ABOVE GROUND LEVEL AT BASE OF POST	2.5m

TABLE 1: MINIMUM MOUNTING HEIGHTS FOR SIDE MOUNTED SIGN

1/4/2024 8:00:44 PM

ISSUE	APPD	DATE	AMENDMENT
E			
D	V.L.	04/24	MINOR MODIFICATION ON TABLE 1
C	M.H.	08/18	ADDED POLES ARE TO BE BOLTED TO SLEEVES
B	M.H.	05/16	REVIEWED AND UPDATED DESIGN
A	V.C.D	01/09	INITIAL DESIGN

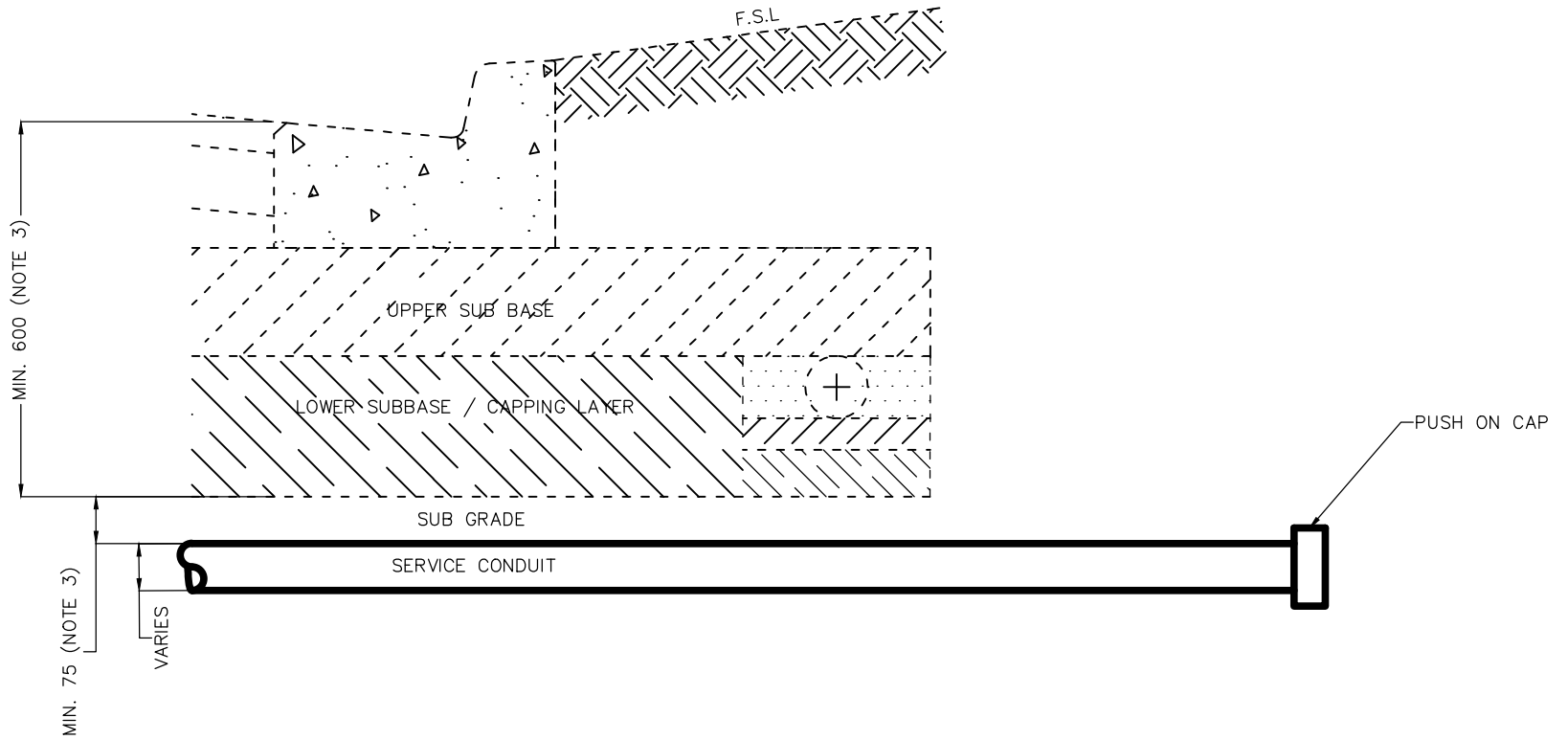
GENERAL NOTES


 CITY OF
 MELTON
 ENGINEERING SERVICES DEPT

DESIGN	L.SHE
DRAWN	L.SHE
CHECKED	M.HUTCHINSON
DATE	APRIL 2016

PROJECT	STANDARD DRAWING - MCC 205
DETAILS	SIGNAGE OFFSET AND INSTALLATION

N.T.S.	
SHEET 1 OF 1	PAPER A4
DRAWING No.	REV C
FILE NAME MCC 205 - SIGNAGE OFFSET AND INSTALLATION.DWG	



NOTES

1. CONDUITS FOR GAS, WATER, ELECTRICITY AND TELECOM SERVICES TO BE LOCATED CLEAR OF PAVEMENT AND THE SUBSURFACE DRAIN.
2. REFER TO BACKFILL REQUIREMENTS PER MCC 704.
3. MINIMUM REQUIREMENTS FROM THE FINISH PAVEMENT LEVEL, CAPPING LAYER AND SUBSURFACE DRAIN HAVE TO BE MET, OTHERWISE SERVICE CONDUIT TO BE LOCATED MIN 100MM BELOW THE BEDDING OF SUBSURFACE DRAIN

17/11/2017 11:57:03 PM

ISSUE	APP'D	DATE	AMENDMENT
E			
D			
C	M.H	12/16	REVISED DRAWING NUMBER
B	M.H	06/11	RELOCATED SUBSURFACE DRAIN TO THE CAPPING LAYER
A	V.C.D	04/09	REVIEWED AND UPDATED 2009 STANDARD DRAWINGS

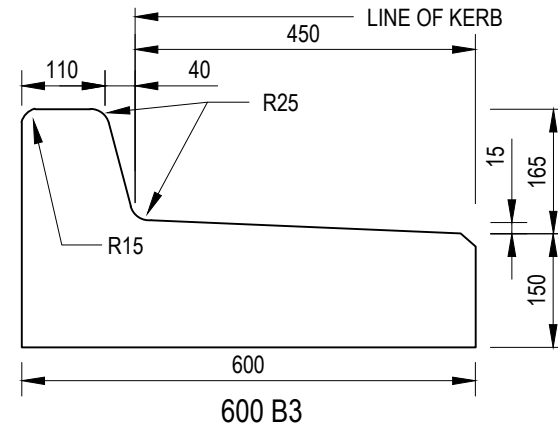
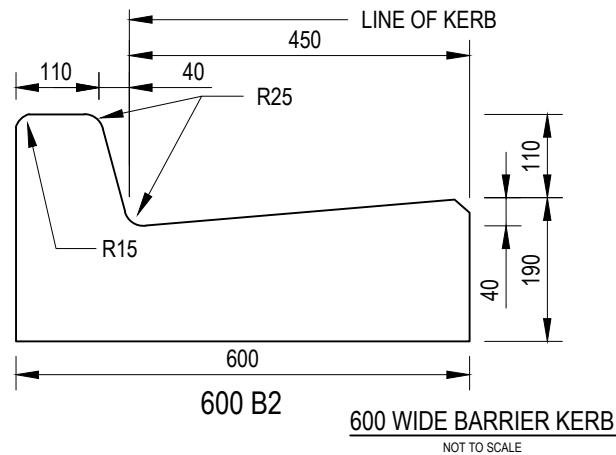
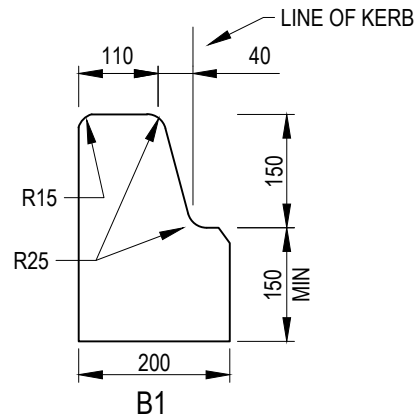
GENERAL NOTES



DESIGN	B.SELL
DRAWN	B.SELL
CHECKED	M.HUTCHINSON
DATE	JUN 11

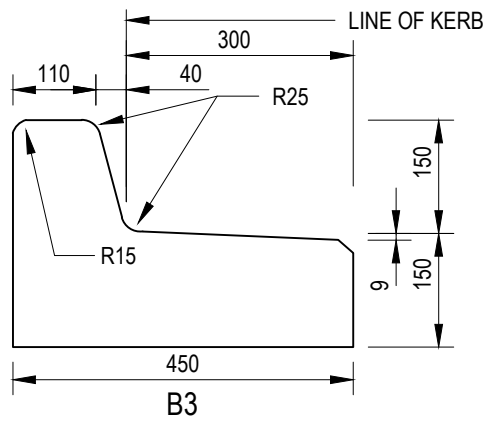
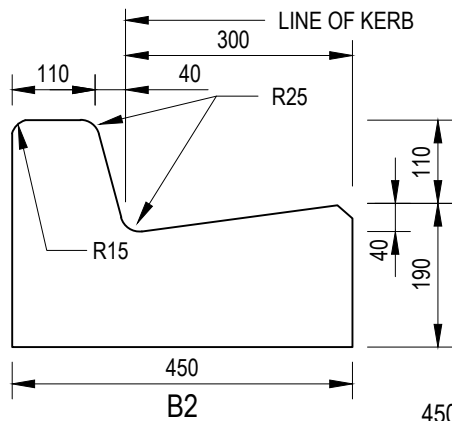
PROJECT	STANDARD DRAWING - MCC 206
DETAILS	SERVICES UTILITIES DETAIL

N.T.S.	
SHEET 1 OF 1	PAPER A4
DRAWING No.	REV B
FILE NAME MCC 206 - SERVICES UTILITIES DETAIL.DWG	

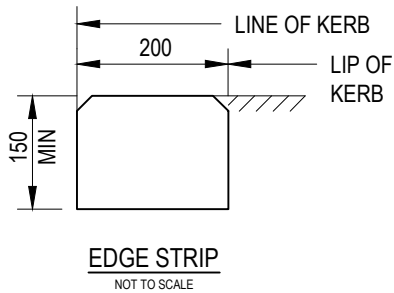


NOTES:

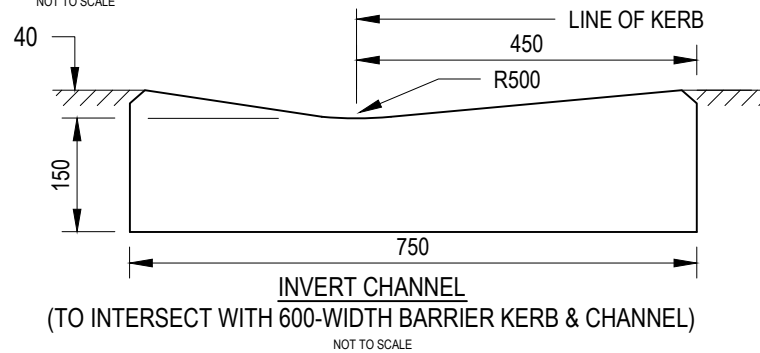
1. CONCRETE SHALL BE NORMAL CLASS N25 COMPLYING WITH THE REQUIREMENTS OF AS. 1379. REFER TO VICROADS STANDARD SPECIFICATION 703 FOR REQUIREMENTS OF CONCRETE TO BE USED IN EXTRUSION MACHINES.
2. REFER TO AUSTRROADS GUIDE TO ROAD DESIGN PART 3: GEOMETRIC DESIGN FOR THE RECOMMENDED USE OF KERBS AND CHANNELS.
3. WEAK PLANE JOINTS (WPJ) TO BE PLACED AT 2500 CENTRES.
4. CHAMFERS ARE 15mm X 15mm UNLESS OTHERWISE SHOWN.
5. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE SHOWN.



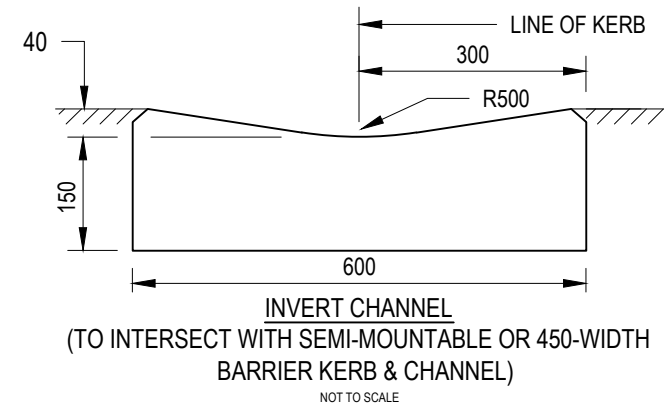
450 WIDE BARRIER KERB
NOT TO SCALE



EDGE STRIP
NOT TO SCALE



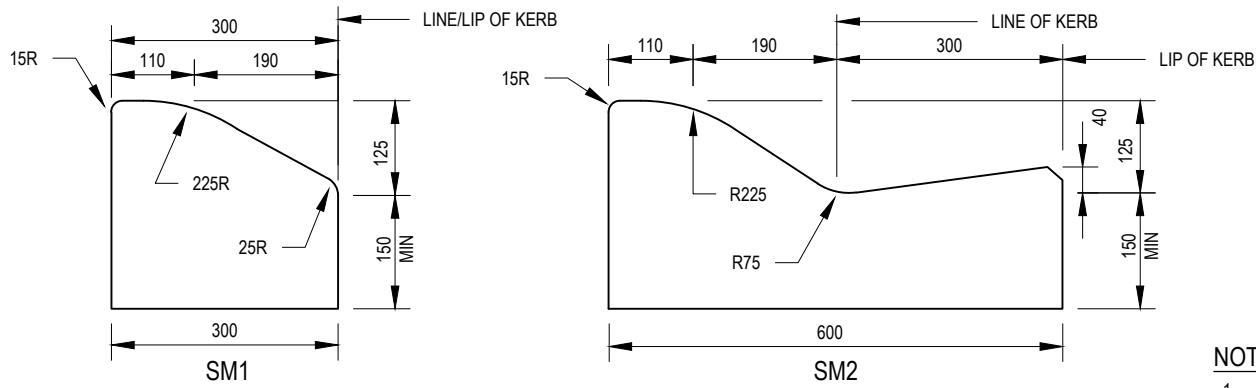
INVERT CHANNEL
(TO INTERSECT WITH 600-WIDTH BARRIER KERB & CHANNEL)
NOT TO SCALE



INVERT CHANNEL
(TO INTERSECT WITH SEMI-MOUNTABLE OR 450-WIDTH BARRIER KERB & CHANNEL)
NOT TO SCALE

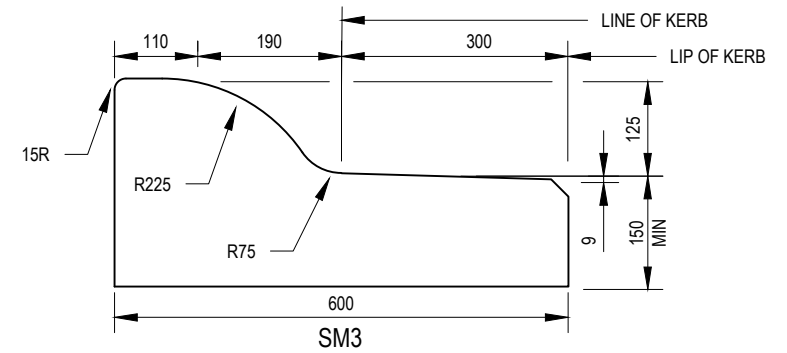
No	Revision	Note	Drawn	Checked	Approved	Date
0	FINAL ISSUE		DG	MM	-	16.11.15





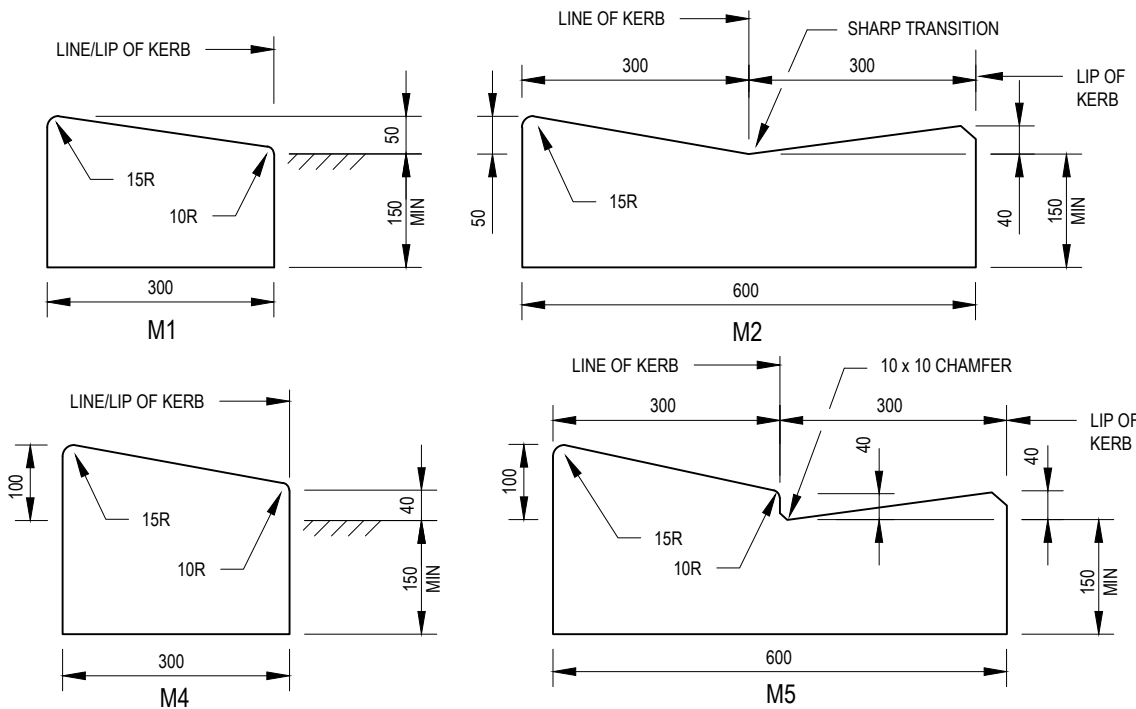
SEMI-MOUNTABLE KERBS

NOT TO SCALE



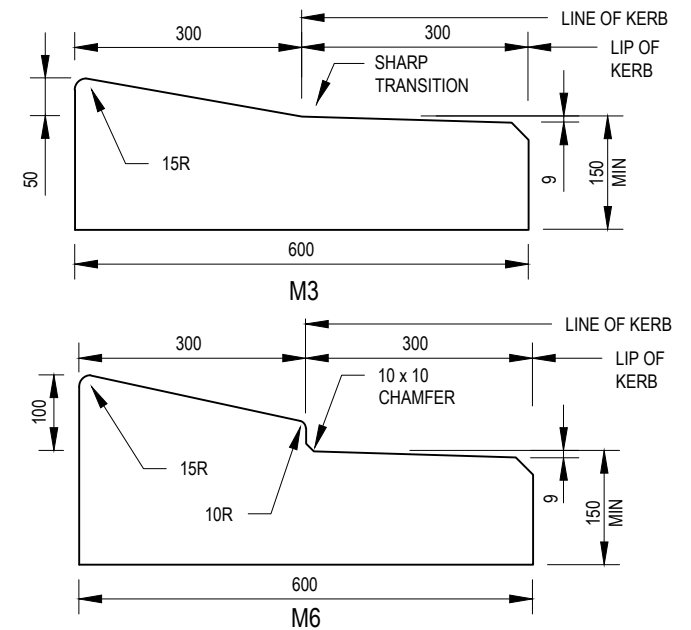
NOTES:

1. 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.
2. REFER TO AUSTRROADS GUIDE TO ROAD DESIGN PART 3: GEOMETRIC DESIGN FOR THE RECOMMENDED USE OF KERBS AND CHANNELS.
3. CONTRACTION JOINTS TO BE PLACED AT 3000 CENTRES.
4. CHAMFERS ARE 15mm X 15mm UNLESS OTHERWISE SHOWN.
5. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE SHOWN.



MOUNTABLE KERBS

NOT TO SCALE

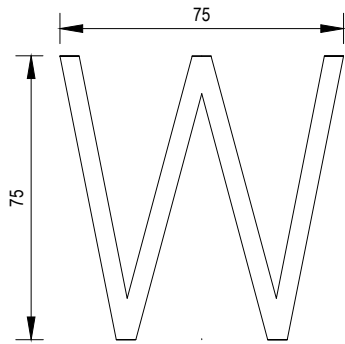


0	FINAL ISSUE	DG	MM	-	16.11.15	
No	Revision	Note: * Indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date

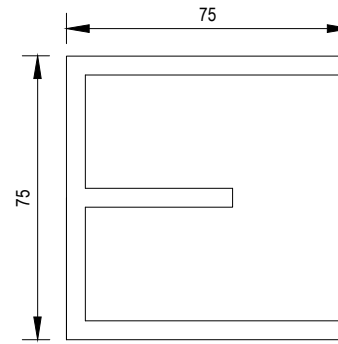


STANDARD DRAWINGS FOR
SUBDIVISIONS IN GROWTH AREAS
SEMI MOUNTABLE
MOUNTABLE KERB PROFILES

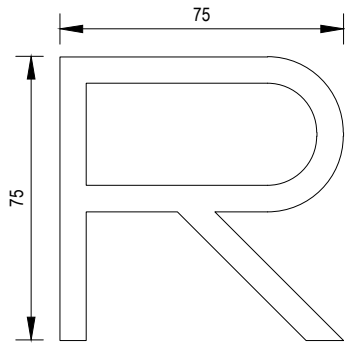
Revision | 0
Date | DEC 2015
EDCM 302



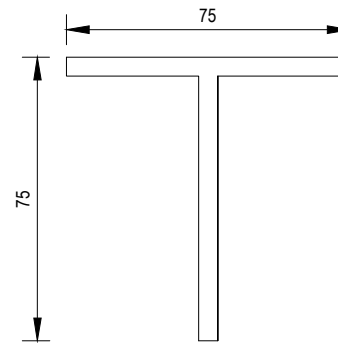
THIS SYMBOL SHALL BE MARKED ON THE FACE OF THE KERB IMMEDIATELY ABOVE THE POSITION WHERE A WATER SERVICE CONDUIT IS PLACED ACROSS THE ROADWAY.



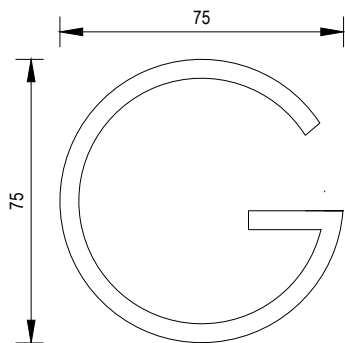
THIS SYMBOL SHALL BE MARKED ON THE FACE OF THE KERB IMMEDIATELY ABOVE THE POSITION WHERE AN ELECTRICAL SERVICE CONDUIT IS PLACED.



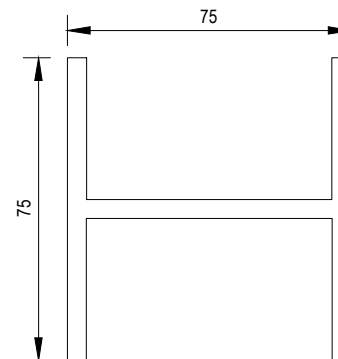
THIS SYMBOL SHALL BE MARKED ON THE FACE OF THE KERB IMMEDIATELY ABOVE THE POSITION WHERE A RECYCLED WATER SERVICE CONDUIT IS PLACED.



THIS SYMBOL SHALL BE MARKED ON THE FACE OF THE KERB IMMEDIATELY ABOVE THE POSITION WHERE A TELECOMMUNICATIONS SERVICE CONDUIT IS PLACED.



THIS SYMBOL SHALL BE MARKED ON THE FACE OF THE KERB IMMEDIATELY ABOVE THE POSITION WHERE A GAS SERVICE CONDUIT IS PLACED.



THIS SYMBOL SHALL BE MARKED ON THE FACE OF THE KERB IN LINE WITH THE POSITION WHERE A PROPERTY STORMWATER CONNECTION IS PROVIDED TO AN UNDERGROUND STORMWATER PIPE OR PIT.

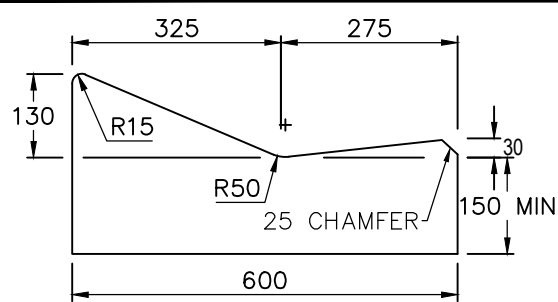
NOTES:

1. WIDTH AND DEPTH OF LETTERS TO BE 2-5mm.

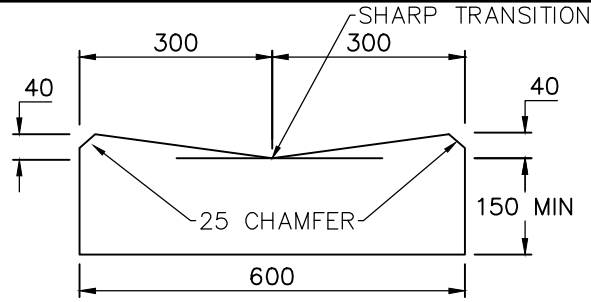
No	Revision	Note: * Indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date
0	FINAL ISSUE		DG	MM	-	16.11.15



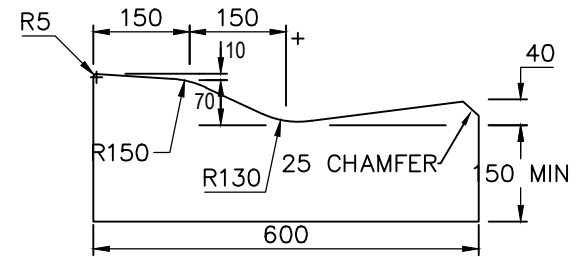
STANDARD DRAWINGS FOR
SUBDIVISIONS IN GROWTH AREAS
KERB MARKINGS



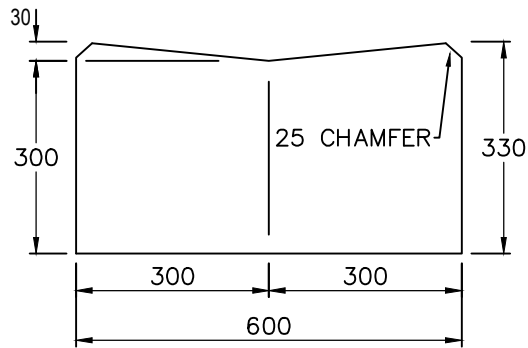
VIC CODE MOUNTABLE KERB AND CHANNEL



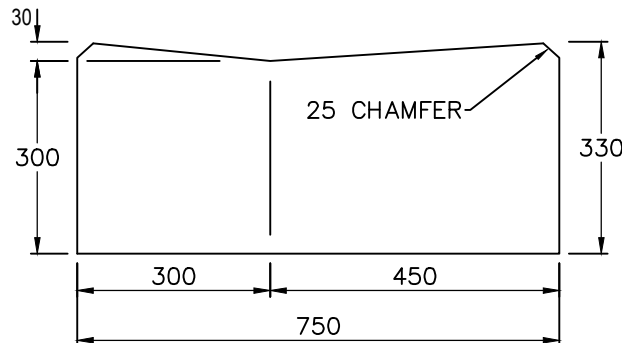
OPEN CHANNEL - OC



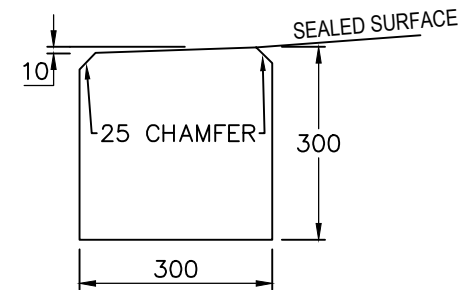
MOUNTABLE KERB AND CHANNEL



600mm OPEN CONCRETE CHANNEL



750mm OPEN CONCRETE CHANNEL



EDGE STRIP

NOTES

1. KERB PROFILES ARE ALL AS PER VICROADS STANDARD DRAWINGS.
2. MINIMUM DEPTH OF PAVEMENT BELOW THE KERB MUST BE THE GREATER OF THE PAVEMENT DESIGN OR 100mm OF CLASS 3 CRUSHED ROCK.
3. PAVEMENT TO FINISH 5mm ABOVE THE LIP OF CHANNEL.
4. WHERE CONCRETE ABUTS KERB AND CHANNEL, ALL EDGES ARE TO HAVE A 5MM RADIUS.
5. CONCRETE SHALL BE NORMAL CLASS N25 COMPLYING WITH THE REQUIREMENTS OF AS.1379. REFER TO VICROADS STANDARD SPECIFICATION 703 FOR REQUIREMENTS OF CONCRETE TO BE USED IN EXTRUSION MACHINES.
6. WEAKEN PLANE JOINT TO BE 2500 CENTRES
7. KERB PROFILES SHOWN ARE ONLY TO BE USED WHEN REINSTATING TO MATCH EXISTING PROFILES. NEW KERBS TO BE AS PER EDCM 301 & 302
8. ALL DIMENSIONS SHOWN ARE IN mm UNLESS OTHERWISE SHOWN

17/11/2017 1:57:04 PM

ISSUE	APPD	DATE	AMENDMENT
E	M.H	12/16	REVISED DRAWING FONTS
D	M.H	06/11	REVIEWED DRAWING AND UPDATED NOTES
C	M.H	06/11	REMOVED PROFILES AND RETAINED MELTON SPECIFIC KERB TYPES
B	P.J.	01/08	MATCHED KERB PROFILES TO VICROADS STANDARD DRAWINGS
A	J.V	06/07	REVIEWED AND UPDATED 2000 STANDARD DRAWINGS

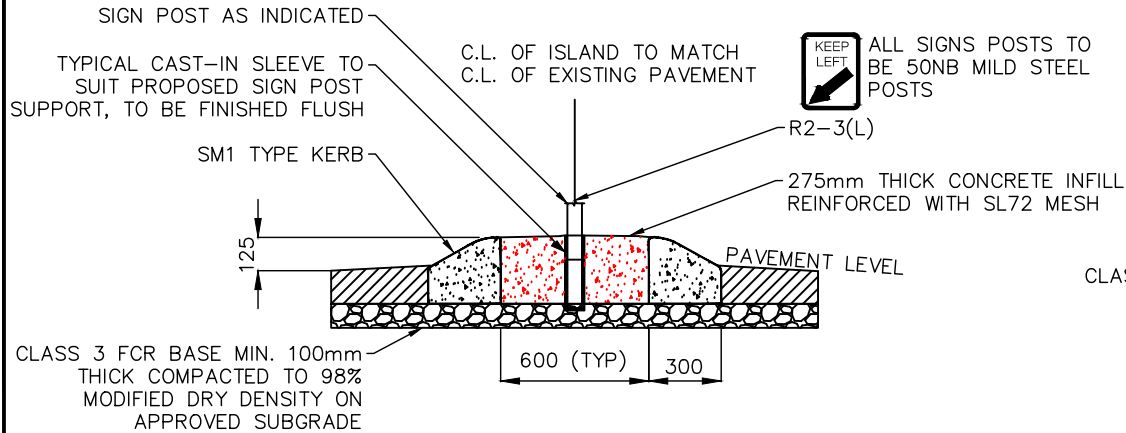
GENERAL NOTES



DESIGN	B.SELL
DRAWN	B.SELL
CHECKED	M.HUTCHINSON
DATE	APRIL 16

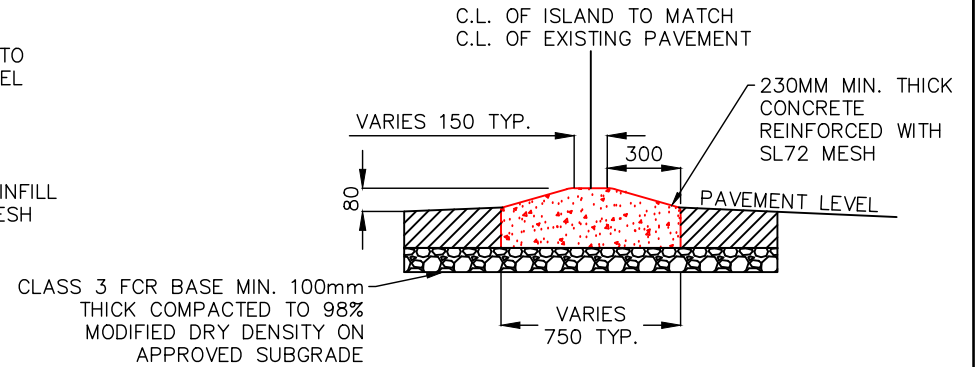
PROJECT	STANDARD DRAWINGS - MCC 304
DETAILS	MELTON CITY COUNCIL SPECIFIC KERB TYPES

N.T.S.	
SHEET 1 OF 1	PAPER A4
DRAWING No.	REV E
FILE NAME MCC 304 MELTON COUNCIL SPECIFIC KERB TYPES.DWG	



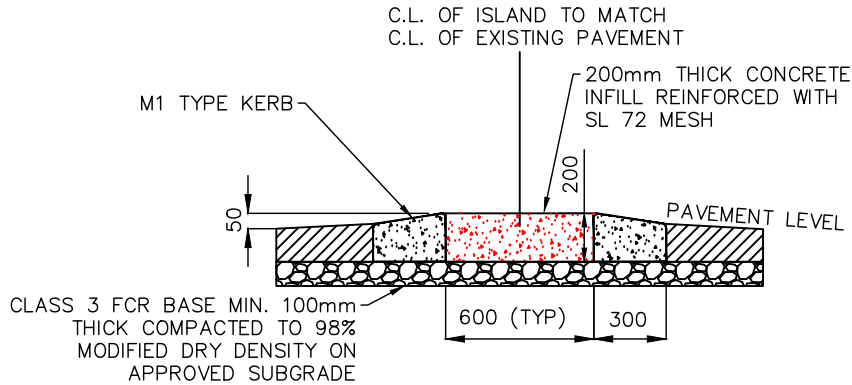
TYPICAL ISLAND CROSS SECTION – SI1

USED WHEN THE MINOR ROAD IS $\geq 8.6m$ AND THE MAJOR ROAD IS $\geq 9.6m$
OTHERWISE USE SI3
N.T.S



TYPICAL ISLAND CROSS SECTION – SI3

USED WHEN THE MINOR ROAD IS $< 8.6m$ AND/OR THE MAJOR ROAD IS $< 9.6m$
OTHERWISE USE SI1
N.T.S



TYPICAL ISLAND CROSS SECTION – SI2

USED WHEN NEED TO ACCOMMODATE DRIVEWAY ACCESS, ETC.
N.T.S

NOTES

1. IF THE SPLITTER ISLAND IS REQUIRED TO SHELTER A SIGN, THEN SI1 MUST BE USED.
2. IF THE SPLITTER ISLAND IS TO BE USED AS A PEDESTRIAN REFUGE, THE DESIRABLE MINIMUM WIDTH OF THE ISLAND SHALL BE INCREASED TO AT LEAST 1.8M WHERE IT CAN BE ACCOMMODATED. REFER MCC 306 & 307
3. A PRAM CROSSING SHALL BE PROVIDED FOR ALL SPLITTER ISLANDS USED FOR PEDESTRIAN REFUGE ON EACH SIDE.
4. A MINIMUM OFFSET OF 0.5M SHALL BE PROVIDED TO THE END NOSE OF THE ISLAND WHICH IS ADJACENT TO THE MAJOR THROUGH ROAD.
5. MINIMUM CONCRETE STRENGTH SHALL BE 25MPa.
6. WHERE A SPLITTER ISLAND IS RETROFITTED, THE ASPHALT SURFACE SHALL BE SAW CUT TO PROVIDE A NEAT AND CLEAN EDGE FOR EXCAVATION, AND THE PAVEMENT IS TO BE REINSTATED AND THE SEAL TO MATCH THE EXISTING PAVEMENT.
7. FOR ALL ISLANDS, RRPMS AND LINEMARKINGS SHALL BE PROVIDED TO AS 1742.2 AND MCC 306, 307 & 308.
8. WHERE ISLAND IS TO BE CONSTRUCTED FLUSH TO ACCOMMODATE DRIVEWAY ACCESS, SI2 PROFILE IS TO BE USED

19/7/2018 2:47:40 PM

ISSUE	APPD	DATE	AMENDMENT
E			
D	M.H.	06/18	AMENDED ISLAND CRITERIA
C	M.H.	06/16	REVISED SI1 & SI3 USAGE
B	M.H.	06/16	REVISED DRAWING FONTS, LINEWEIGHTS, ETC. AMENDED SI3 USAGE
A	M.H.	06/16	INCORPORATED EDCM DRAWING DETAILS

GENERAL NOTES	



ENGINEERING SERVICES DEPT

DESIGN	L.SHE
DRAWN	L.SHE
CHECKED	M.HUTCHINSON
DATE	APRIL 2016

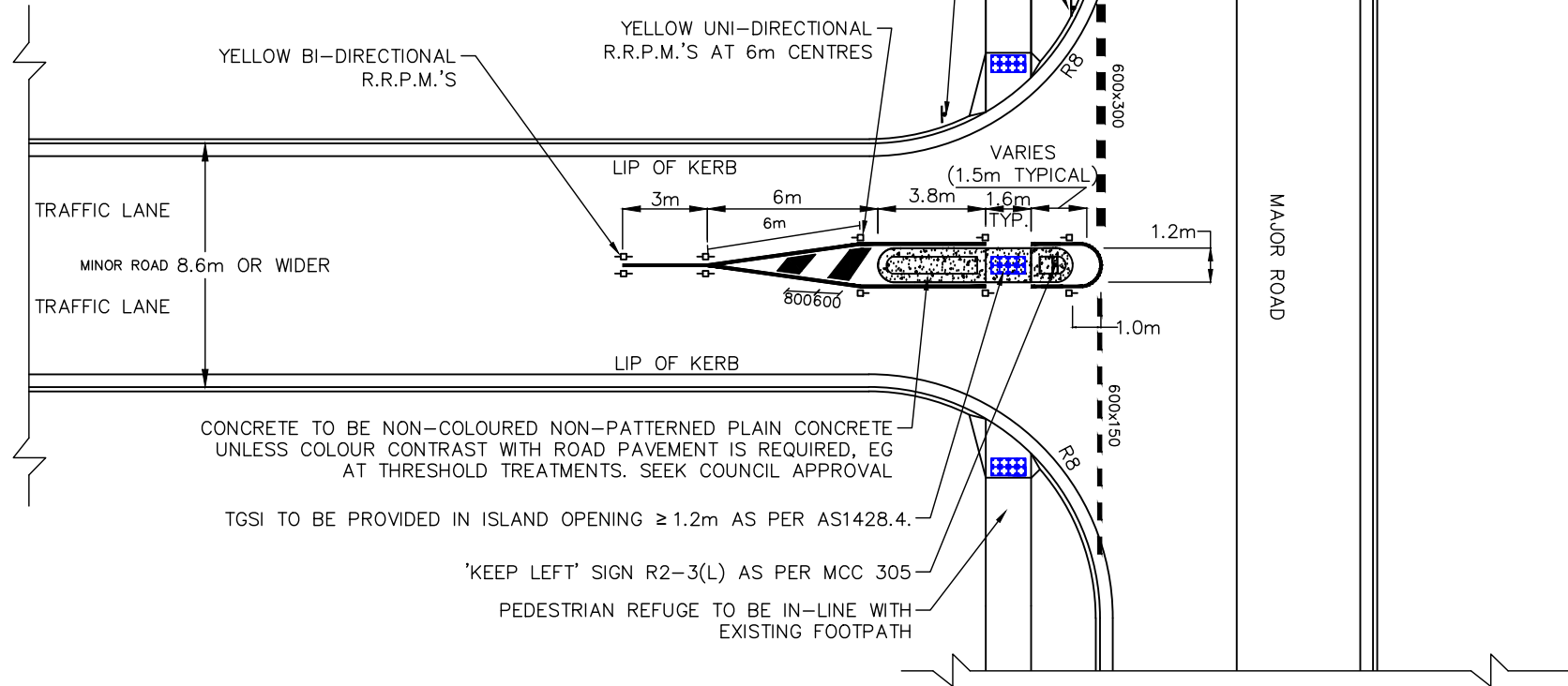
PROJECT	STANDARD DRAWING - MCC 305
DETAILS	SPLITTER ISLANDS

N.T.S.	
SHEET 1 OF 1	PAPER A4
DRAWING No.	REV D
FILE NAME	MCC 305.DWG

NOTES:

1. THIS DRAWING ASSUMES THE INTERSECTING ROADS ARE AT RIGHT ANGLE, KERB RETURN RADIUS OF MIN. 8m AND ROAD WIDTHS AS NOTED. ALL OTHER CASES, THE DESIGNER IS TO CHECK VEHICLE TURNING PATHS USING APPROPRIATE TEMPLATES AS PER AUSTRROADS GUIDE TO ROAD DESIGN, PART 4.
2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH MCC 305.
3. ALL LINEMARKING AND RRPMS ARE TO BE CARRIED OUT AS SHOWN AND AS1742.2. ALL LINEMARKING TO BE THERMOPLASTIC LONG LIFE TYPE.
4. WHERE A SPLITTER ISLAND IS RETROFITTED, THE ASPHALT SURFACE SHALL BE SAW CUT TO PROVIDE A NEAT AND CLEAN EDGE FOR EXCAVATION, AND THE PAVEMENT IS TO BE REINSTATED AND THE SEAL TO MATCH THE EXISTING PAVEMENT.
5. ALL DIMENSIONS ARE TO INVERT (LINE) OF KERB UNLESS NOTED OTHERWISE

ALTERNATE POSITION OF GIVEWAY/STOP SIGNS (WHERE REQUIRED AS PER AS 1428.2). PLACE SIGN WITHIN SIGHT LINES OF APPROACHING DRIVERS AND AS CLOSE TO THE STOP/HOLD LINE AS POSSIBLE



CONCRETE TO BE NON-COLOURED NON-PATTERNED PLAIN CONCRETE UNLESS COLOUR CONTRAST WITH ROAD PAVEMENT IS REQUIRED, EG AT THRESHOLD TREATMENTS. SEEK COUNCIL APPROVAL

TGSI TO BE PROVIDED IN ISLAND OPENING $\geq 1.2m$ AS PER AS1428.4.

'KEEP LEFT' SIGN R2-3(L) AS PER MCC 305

PEDESTRIAN REFUGE TO BE IN-LINE WITH EXISTING FOOTPATH

TYPICAL S11 SPLITTER ISLAND LAYOUT:

USED WHEN THE MINOR ROAD IS $\geq 8.6m$ AND THE MAJOR ROAD IS $\geq 9.6m$ OTHERWISE USE S13 TYPE ISLAND, REFER MCC 307 & 305

19/7/2018 2:47:44 PM

ISSUE	APPD	DATE	AMENDMENT
E			
D	M.H.	06/18	AMENDED ISLAND CRITERIA
C	M.H.	07/17	AMENDED PAINTED CHEVRON MARKING LENGTH AND ISLAND USAGE
B	M.H.	12/16	AMENDED INTERSECTION LABELS & NOTES
A	M.H.	08/16	PRELIMINARY DESIGN

GENERAL NOTES	



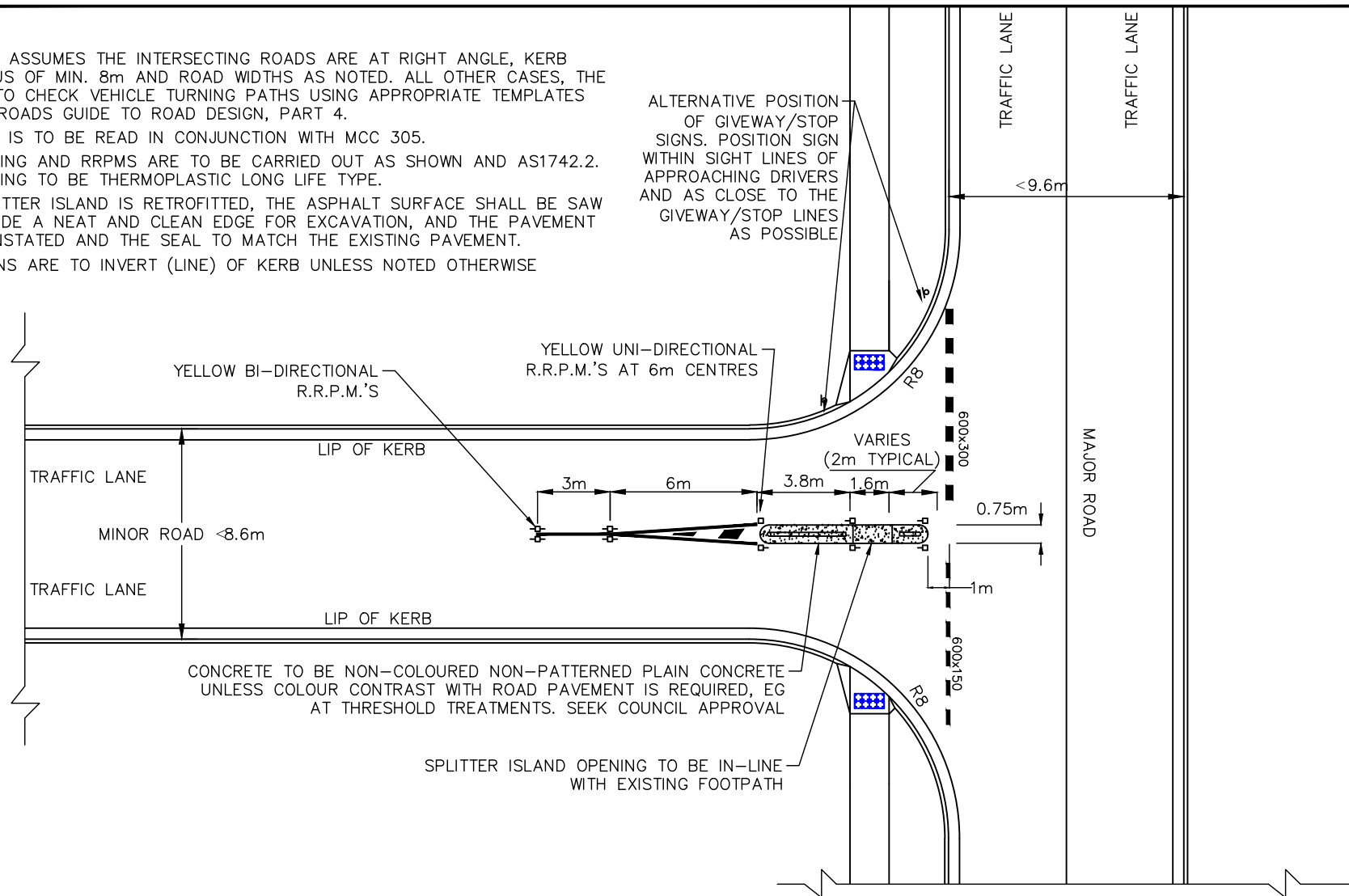
DESIGN	L.SHE
DRAWN	L.SHE
CHECKED	M.HUTCHINSON
DATE	APRIL 2016

PROJECT	STANDARD DRAWING - MCC 306
DETAILS	S11 TYPE SPLITTER ISLAND TYPICAL LAYOUT

N.T.S.	
SHEET 1 OF 1	PAPER A4
DRAWING No.	REV D
FILE NAME MCC 306 - S11 SPLITTER ISLAND LAYOUT PLAN.DWG	

NOTES:

1. THIS DRAWING ASSUMES THE INTERSECTING ROADS ARE AT RIGHT ANGLE, KERB RETURN RADIUS OF MIN. 8m AND ROAD WIDTHS AS NOTED. ALL OTHER CASES, THE DESIGNER IS TO CHECK VEHICLE TURNING PATHS USING APPROPRIATE TEMPLATES AS PER AUSTRROADS GUIDE TO ROAD DESIGN, PART 4.
2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH MCC 305.
3. ALL LINEMARKING AND RRPMS ARE TO BE CARRIED OUT AS SHOWN AND AS1742.2. ALL LINEMARKING TO BE THERMOPLASTIC LONG LIFE TYPE.
4. WHERE A SPLITTER ISLAND IS RETROFITTED, THE ASPHALT SURFACE SHALL BE SAW CUT TO PROVIDE A NEAT AND CLEAN EDGE FOR EXCAVATION, AND THE PAVEMENT IS TO BE REINSTATED AND THE SEAL TO MATCH THE EXISTING PAVEMENT.
5. ALL DIMENSIONS ARE TO INVERT (LINE) OF KERB UNLESS NOTED OTHERWISE



TYPICAL S13 SPLITTER ISLAND LAYOUT:

USED WHEN THE MINOR ROAD IS $< 8.6\text{m}$ AND/OR THE MAJOR ROAD IS $< 9.6\text{m}$
OTHERWISE USE S11 TYPE ISLAND, REFER MCC 305 & MCC 306

ISSUE	APPD	DATE	AMENDMENT
E	M.H.	06/18	REVISED ISLAND CRITERIA
D	M.H.	05/17	CHANGED FROM S12 TO S13
C	M.H.	05/17	AMENDED PAINTED LINEMARKING
B	M.H.	12/16	AMENDED SPLITTER ISLAND LAYOUT AND LABELING.
A	M.H.	12/16	PRELIMINARY DESIGN

GENERAL NOTES	

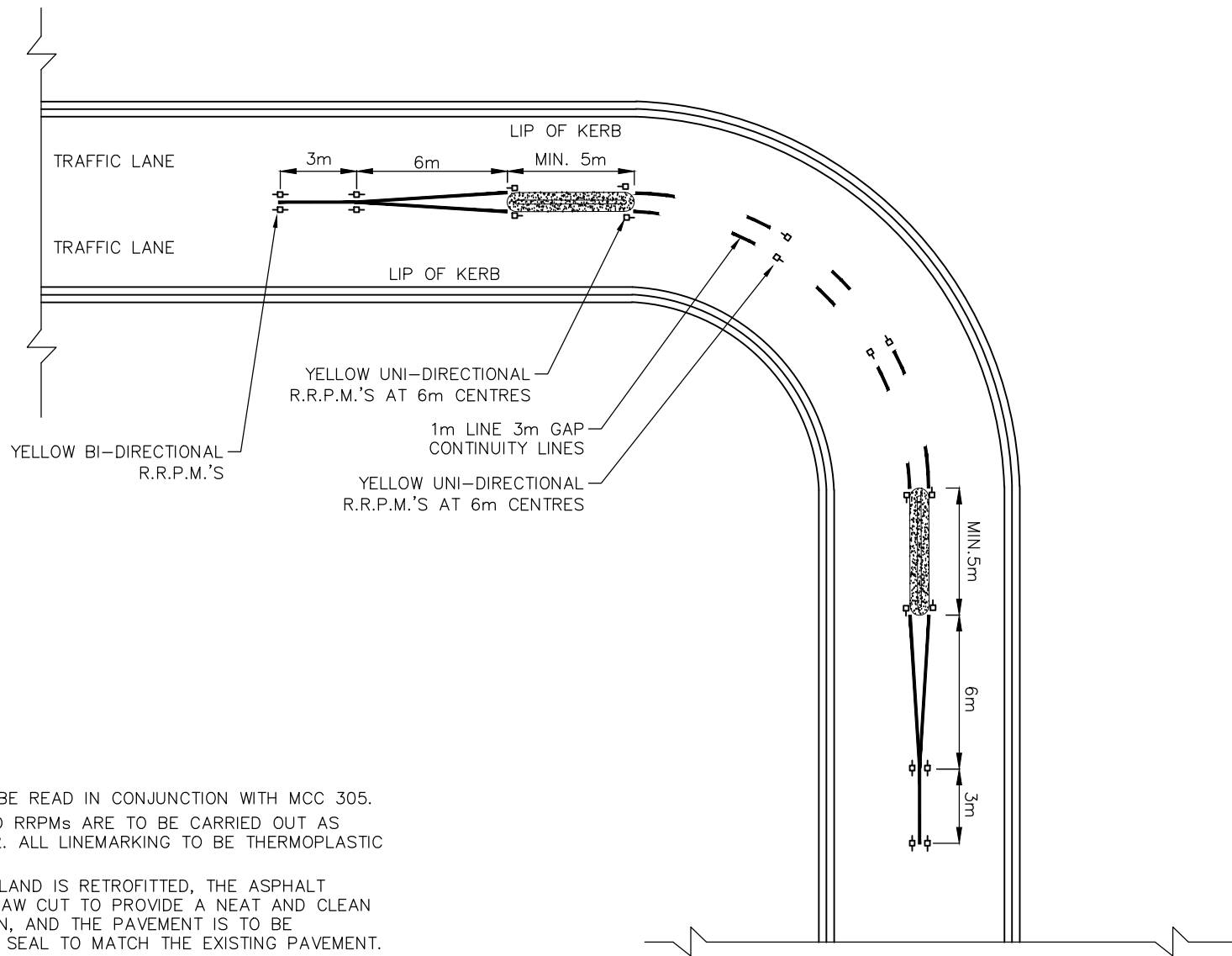


DESIGN	L.SHE
DRAWN	L.SHE
CHECKED	M.HUTCHINSON
DATE	APRIL 2016

PROJECT	STANDARD DRAWING - MCC 307
DETAILS	S13 TYPE SPLITTER ISLAND TYPICAL LAYOUT

N.T.S.	
SHEET 1 OF 1	PAPER A4
DRAWING No.	REV E
FILE NAME MCC 307 - SPLITTER ISLAND LAYOUT PLAN S13.DWG	

19/7/2018 2:47:48 PM



NOTES:

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH MCC 305.
2. ALL LINEMARKING AND RRPMS ARE TO BE CARRIED OUT AS SHOWN AND AS1742.2. ALL LINEMARKING TO BE THERMOPLASTIC LONG LIFE TYPE.
3. WHERE A SPLITTER ISLAND IS RETROFITTED, THE ASPHALT SURFACE SHALL BE SAW CUT TO PROVIDE A NEAT AND CLEAN EDGE FOR EXCAVATION, AND THE PAVEMENT IS TO BE REINSTATED AND THE SEAL TO MATCH THE EXISTING PAVEMENT.
4. WHERE IN FRONT OF DRIVEWAYS, MAKING FLUSH AND/OR RELOCATING THE ISLANDS SHOULD BE CONSIDERED.

TYPICAL S13 SPLITTER ISLAND LAYOUT ON 90 DEGREES BENDS

E				
D				
C	M.H.	05/17	AMENDED LINEMARKING	
B	M.H.	12/16	REVISED LINEMARKING SPACING	
A	M.H.	10/16	PRELIMINARY DESIGN	
ISSUE	APPD	DATE		AMENDMENT

GENERAL NOTES

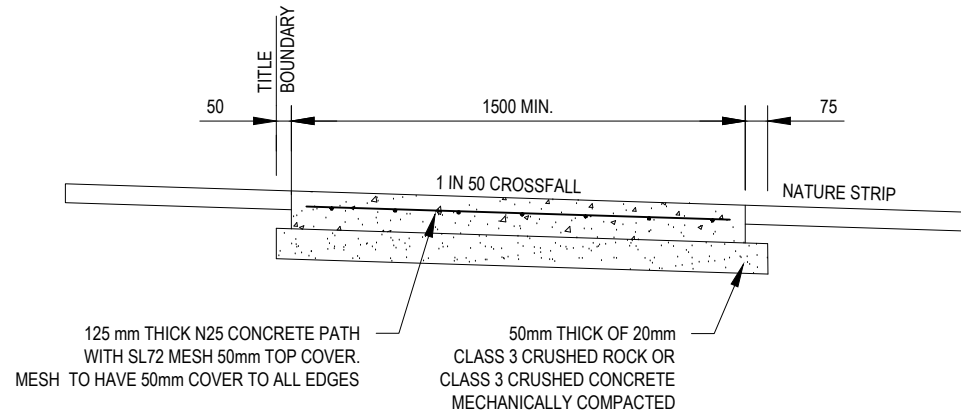


DESIGN	L.SHE
DRAWN	L.SHE
CHECKED	M.HUTCHINSON
DATE	APRIL 2016

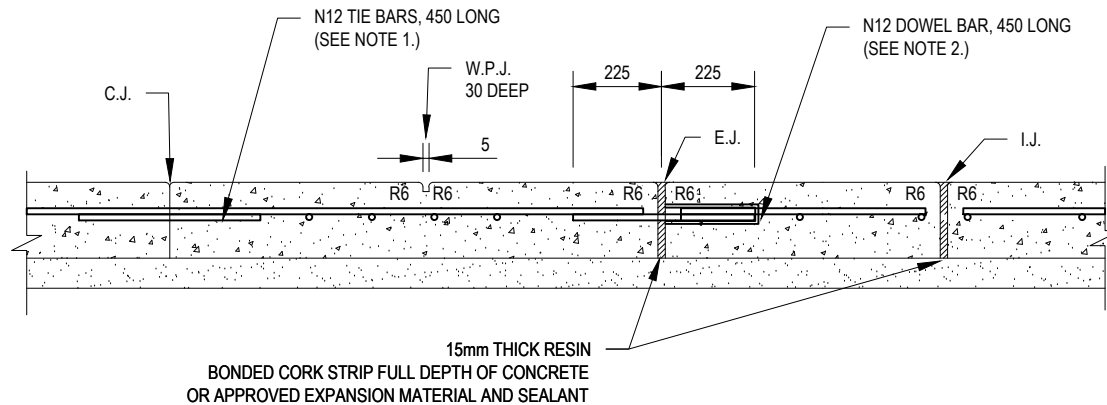
PROJECT	STANDARD DRAWING - MCC 308
DETAILS	S13 SPLITTER ISLAND LAYOUT ON 90 DEGREES BENDS

N.T.S.	
SHEET 1 OF 1	PAPER A4
DRAWING No.	REV C
FILE NAME MCC 308 - SPLITTER ISLAND LAYOUT ON 90 DEGREES BENDS.DWG	

10/05/2017 8:58:11 AM



TYPICAL FOOTPATH CROSS SECTION



CONSTRUCTION JOINT (C.J.) (NOTE 1.)

CONTROL JOINT / WEAKENED PLANE JOINT (W.P.J.) (NOTE 4.)

EXPANSION JOINT (E.J.) (NOTE 2.)

ISOLATION JOINT (I.J.)

CONCRETE JOINT DETAILS

NOTES:

1. TIE BARS TO BE INSTALLED AT 400 MAXIMUM CENTRES COMMENCING 150 FROM EDGE.
2. DOWEL BARS TO BE INSTALLED AT 400 CENTRES COMMENCING AT A MINIMUM OF 100 AND A MAXIMUM OF 200 FROM THE EDGE OF PATH. 16 DIAMETER PVC SLEEVE WITH END CAP OR CLOSED END TO BE FITTED TO ONE END OF THE BAR. DOWEL BARS TO BE SECURELY TIED TO LONGITUDINAL REINFORCING MESH.
3. EXPANSION JOINTS (EJ) LOCATED BOTH SIDE OF VEHICLE CROSSING AND AT A MAXIMUM OF 12000 CENTRES.
4. WEAKENED PLANE JOINTS LOCATED AT SPACINGS EQUAL TO THE WIDTH OF THE PATH AND MADE WITH A 'T' IRON OR CONCRETE SAW CUT.
5. IN SHARED PATHS WEAKENED PLANE JOINTS MUST BE MADE BY CONCRETE SAW CUTTING.
6. CONCRETE TO BE LIGHT BROOM FINISH WITH EDGE AND JOINTS NEATLY TOOLED AFTER THE BROOM IS APPLIED.
7. ALL FINISHED SURFACES TO COMPLY WITH AS 4586 SLIP RESISTANT CLASSIFICATION OF NEW PEDESTRIAN SURFACE MATERIAL.
8. THE USE OF COLOURED CONCRETE MUST BE APPROVED BY COUNCIL. MINIMUM STRENGTH OF COLOURED CONCRETE TO BE 32 MPa.
9. FORMWORK TIMBER TO BE MIN. 125mm DEEP.
10. ALL DIMENSIONS IN MILLIMETRES.
11. SHARED PATHS TO BE 2.5m IN WIDTH MINIMUM. REFER TO APPROVED CONSTRUCTION PLANS FOR ACTUAL WIDTH.

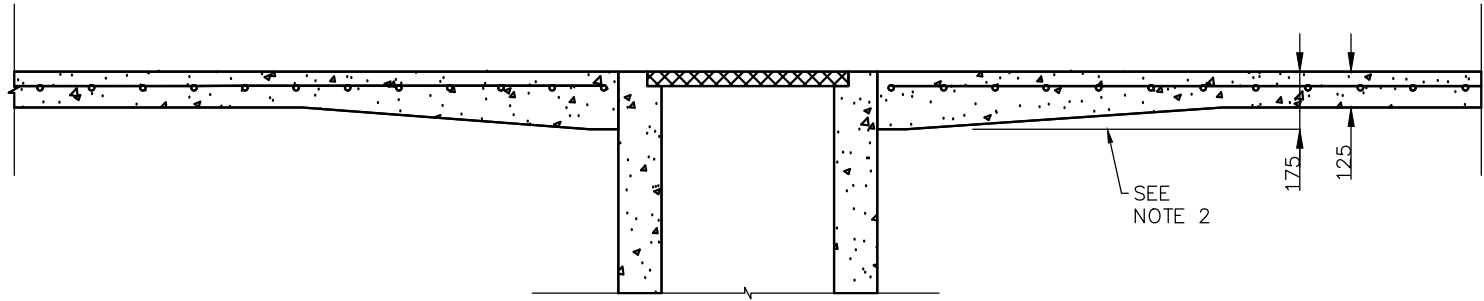
No	Revision	Note: * Indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date
0	FINAL ISSUE		DG	MM	-	16.11.15



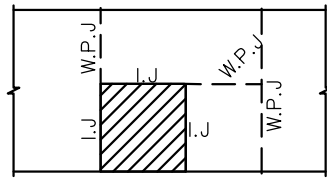
STANDARD DRAWINGS FOR SUBDIVISIONS IN GROWTH AREAS
CONCRETE FOOTPATH CROSS SECTIONS AND JOINTS

Revision 0
Date DEC 2015

EDCM 401

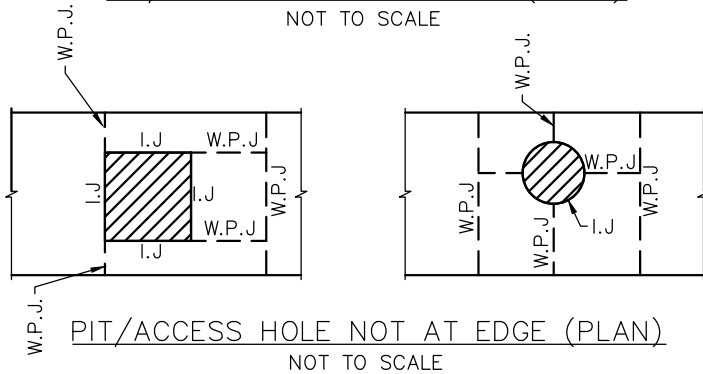


FOOTPATH THICKENING AROUND PITS
NOT TO SCALE



PIT/ACCESS HOLE AT EDGE (PLAN)
NOT TO SCALE

REFER EDCM 401 FOR JOINT DETAILS
W.P.J.=WEAKENED PLANE JOINT
I.J = ISOLATION JOINT



PIT/ACCESS HOLE NOT AT EDGE (PLAN)
NOT TO SCALE

NOTES:

1. FOR JOINT & CONCRETE DETAILS REFER EDCM401.
2. FOOTPATH THICKENING AT PIT TO EXTEND FROM PIT TO NEXT W.P.J OR 500 WHICH EVER IS THE GREATER
3. ISOLATION JOINTS (I.J) ARE NOT REQUIRED AROUND TELECOM AND ELECTRICITY PITS

17/1/2017 1:57:12 PM

E				
D				
C				
B				
A	M.H.	05/2016	ADOPTED FROM EDCM DRAWING. ADDED NOTE 3. FONTS.	
ISSUE	APPD	DATE	AMENDMENT	

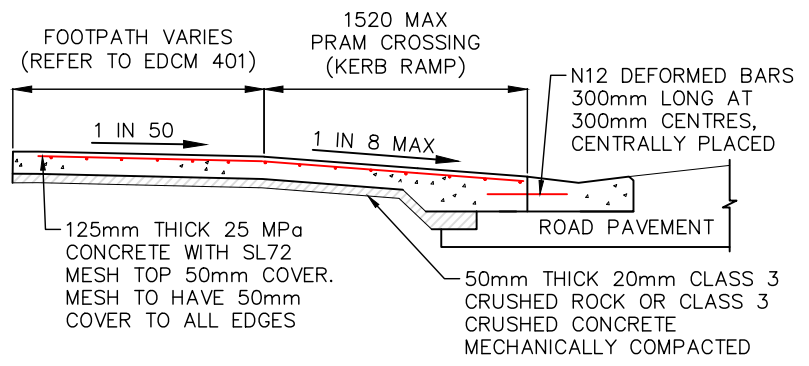
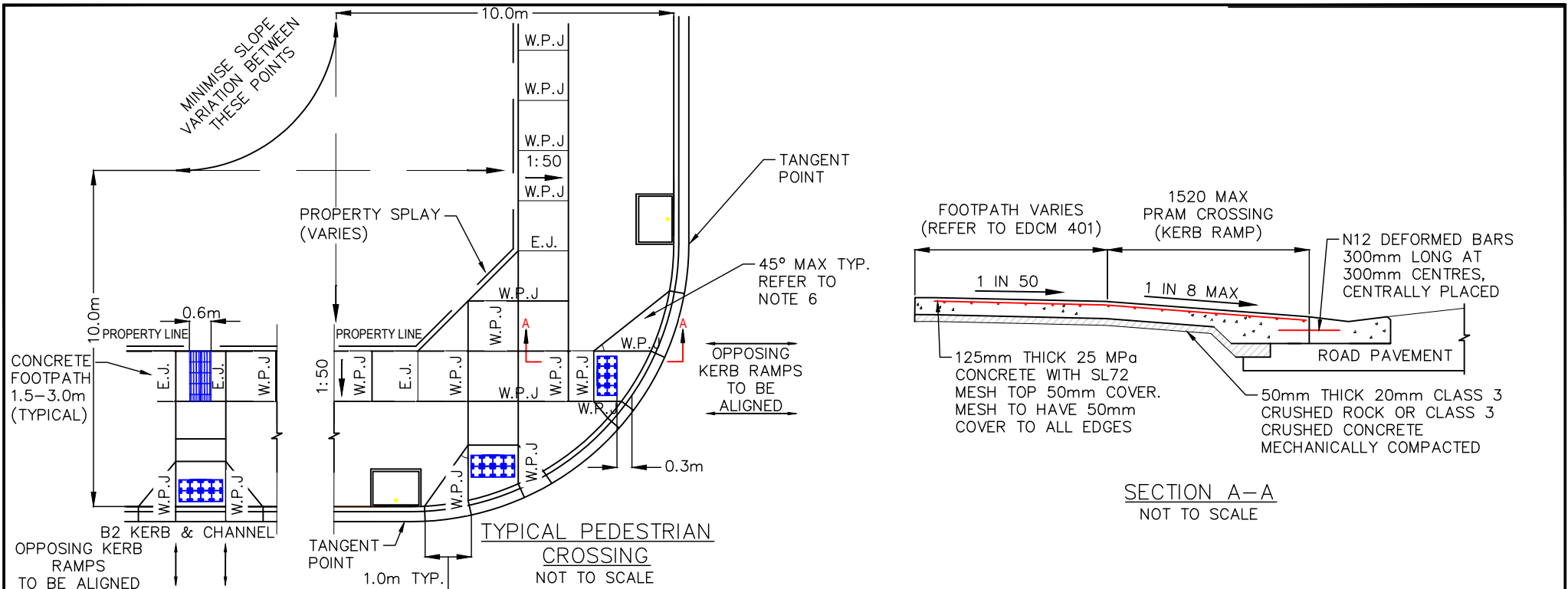
GENERAL NOTES



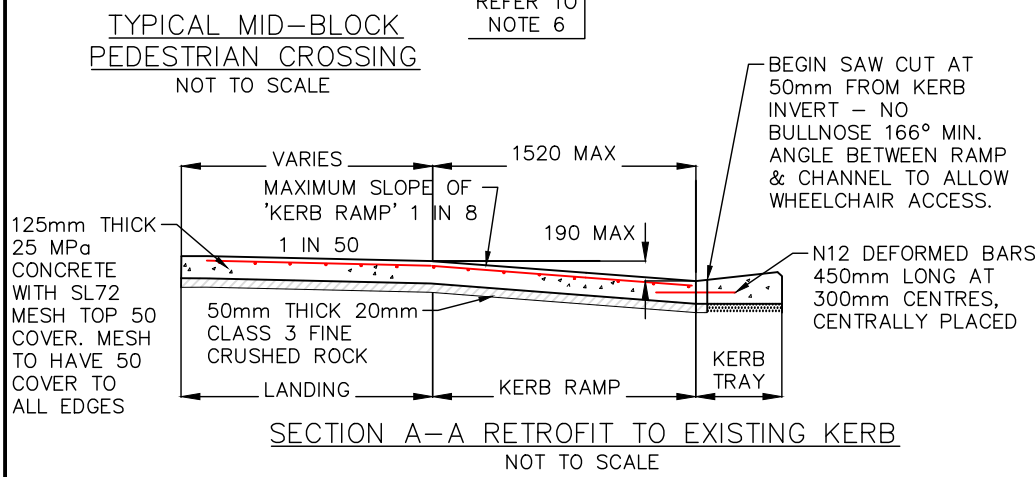
DESIGN	L.SHE
DRAWN	L.SHE
CHECKED	M.HUTCHINSON
DATE	JUNE 2016

PROJECT	STANDARD DRAWING - MCC 402
DETAILS	JOINT DETAIL FOR PITS WITHIN PATHS

N.T.S.	
SHEET 1 OF 1	PAPER A4
DRAWING No.	REV A
FILE NAME	MCC 402 - JOINT DETAIL FOR PITS WITHIN PATHS.DWG



SECTION A-A
NOT TO SCALE



SECTION A-A RETROFIT TO EXISTING KERB
NOT TO SCALE

- NOTES:**
1. TACTILE GROUND SURFACE INDICATORS (TGSi's) SHALL BE PROVIDED AS PER THIS STANDARD DRAWING AND STANDARD DRAWING MCC 404.
 2. ALL FINISHED SURFACES MUST COMPLY WITH AS 4586 - SLIP RESISTANT CLASSIFICATION OF NEW PEDESTRIAN SURFACE MATERIALS.
 3. FOR KERB RAMP RETRO-FITTING, SAW-CUT EXISTING KERB AND DRILL IN N12 DEFORMED BARS 450mm LONG AT 300mm CENTRES, PARALLEL TO KERB.
 4. SPLAYS TO BE 1000mm WITH KERB TRANSITION, OR AT 45° IF KERB RAMP LENGTH IS LESS THAN 1000mm.
 5. CONCRETE TO BE LIGHT BROOM FINISH, UNLESS OTHERWISE SPECIFIED, WITH EDGES AND JOINTS NEATLY TOOLED AFTER THE BROOM IS APPLIED.
 6. ALL TRANSITIONS IN RAMP AND SPLAY GRADE SHALL BE SHARP, TO ASSIST PEDESTRIAN NAVIGATION.
 7. NO BULLNOSE IN THE INVERT OF KERB SHALL BE ACCEPTED.
 8. REFER TECHNICAL SPECIFICATION FOR ROADS AND DRAINAGE WORKS FOR JOINT SPACING REQUIREMENTS.

ISSUE	APPD	DATE	AMENDMENT
E			
D			
C	M.H	02/2018	ADDED TGSi DETAILS
B	M.H	12/2016	REVISED FONTS TO MATCH MCC STANDARD
A	M.H	08/2016	FIRST DRAFT

GENERAL NOTES	

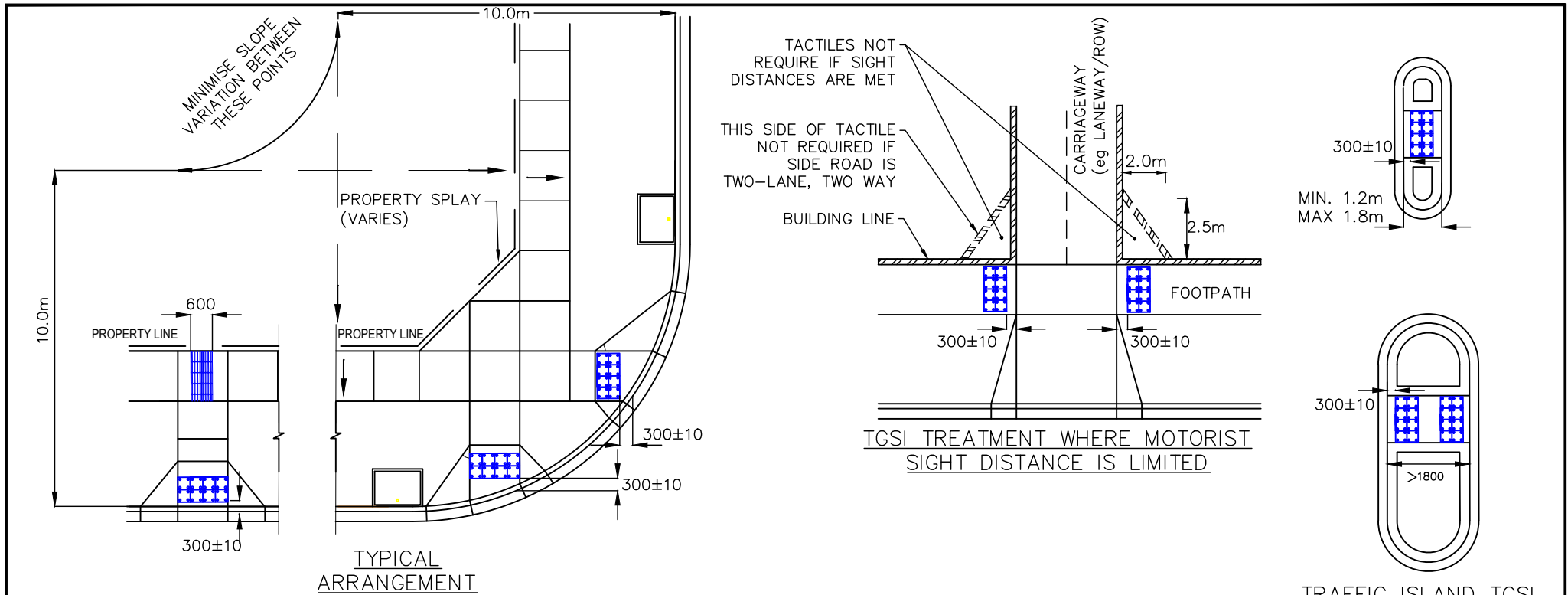


DESIGN	L.SHE
DRAWN	L.SHE
CHECKED	M.HUTCHINSON
DATE	APRIL 2016

PROJECT	STANDARD DRAWING - MCC403
DETAILS	PEDESTRIAN CROSSING KERB RAMP DETAILS

N.T.S.	
SHEET 1 OF 1	PAPER A4
DRAWING No.	REV C
FILE NAME MCC 403 - PEDESTRIAN CROSSING KERB RAMP DETAILS.DWG	

19/7/2018 2:47:33 PM



NOTES:

1. TGSi'S MUST BE INSTALLED AT ALL NEW INTERSECTIONS, AND AS PART OF ANY INTERSECTION OR FOOTPATH UPGRADE WORKS.
2. REFER TO MCC403 FOR PEDESTRIAN CROSSING KERB RAMP DETAILS.
3. ALL TGSi MUST BE FIBRE REINFORCED OR CERAMIC, AND OBTAINED FROM VICROADS APPROVED SUPPLIERS (ROAD DESIGN NOTE (RDN) 06-05C - SUPPLIERS OF VICROADS ACCEPTED PRODUCTS).
4. THE INSTALLATION OF TGSi'S MUST BE AS PER THE SUPPLIERS SPECIFICATIONS AND AS1428.4.1.
5. RUBBER (STICK DOWN) TYPE TYSi WILL NOT BE ACCEPTED BY THE CITY OF MELTON RESULTING FROM CURRENT UNSATISFACTORY ADHESIVES UNTIL PROVEN OTHERWISE.
6. COUNCIL PREFERENCE IS FOR THE INSTALLATION OF IVORY TGSi, OTHER COLOURS WILL BE CONSIDERED SUBJECT TO THEIR COMPLIANCE WITH THE BELOW LUMINANCE CONTRAST REQUIREMENTS INCLUDING TESTING. TGSi'S WITHIN ACTIVITY CENTRES/SHOPPING STRIPS ARE TO BE CONSISTENT WITH THE STREETSCAPE DESIGN (CONSULT WITH COUNCIL DESIGN ENGINEER IF UNCLEAR).
7. TGSi'S MUST HAVE A MINIMUM LUMINANCE CONTRAST AS PER AS1428.4.1.
8. TGSi PRODUCTS MUST BE SLIP RESISTANCE TESTED.
9. TGSi DESIGN (SIZE AND SPACINGS) MUST BE COMPLIANT WITH AS1428.4.1.
10. TGSi'S MUST HAVE A MINIMUM GUARANTEE OF PRODUCT (INCLUDING UV RESISTANCE AND INSTALLATION) OF 5 YEARS.

E				
D				
C	-	-	-	
B	-	-	-	
A	M.H	06/2018	FINAL ISSUE	
ISSUE	APPD	DATE		AMENDMENT

GENERAL NOTES

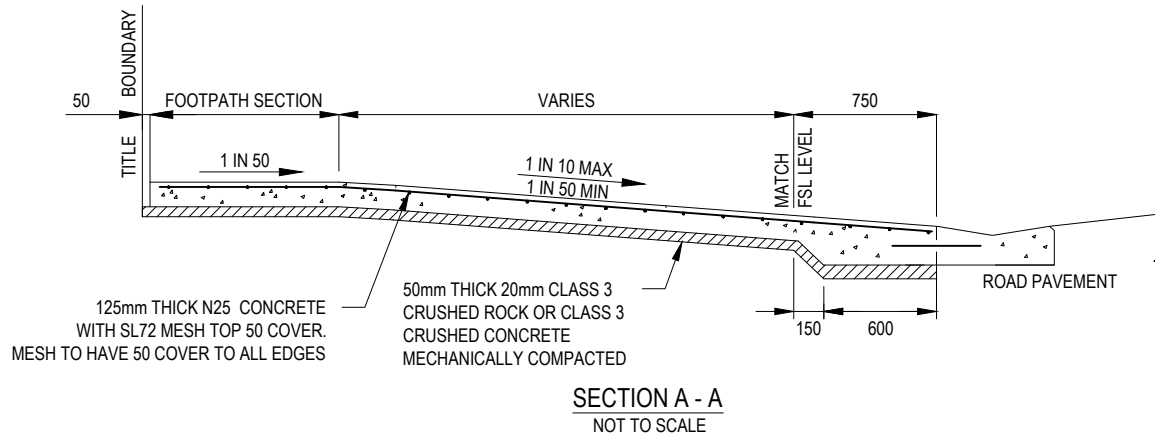


DESIGN	L.SHE
DRAWN	L.SHE
CHECKED	M.HUTCHINSON
DATE	FEBRUARY 2018

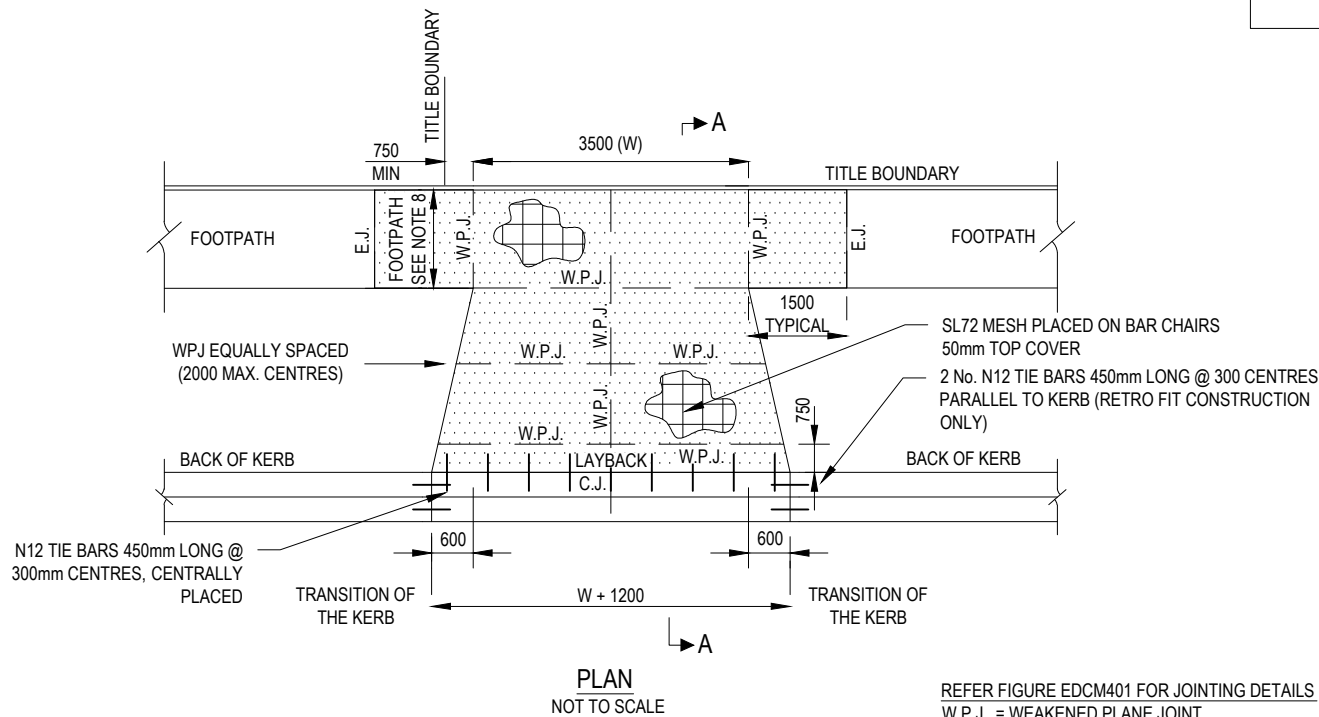
PROJECT	STANDARD DRAWING - MCC404
DETAILS	TACTILES SURFACE INDICATORS DETAIL

N.T.S.	
SHEET 1 OF 1	PAPER A4
DRAWING No.	REV A
FILE NAME MCC 404 - TACTILE SURFACE INDICATORS DETAIL.DWG	

19/7/2018 2:47:30 PM



BETWEEN CROSSOVERS	7 METRES AT KERB
DRAINAGE PITS	0.75 METRES (WITHIN 0.75m - INSTALL CLASS D PIT LID)
TRAFFIC MANAGEMENT DEVICES	1 METRE
UTILITY SERVICE ASSETS	1 METRE
STREET LIGHT	1 METRE
INTERSECTIONS	6 METRES FROM TANGENT POINT AND CLEAR OF SPLITTER ISLANDS
PRAM CROSSING	2 METRES AT KERB
TREES	2.5 METRES
FIRE HYDRANT	1 METRE
LEGAL POINT OF DISCHARGE	1 METRE



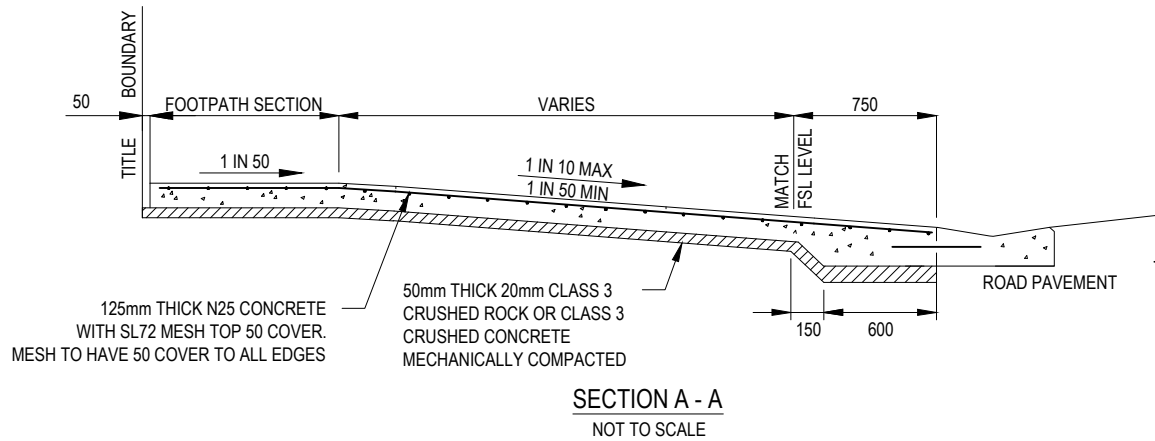
REFER FIGURE EDCM401 FOR JOINTING DETAILS
 W.P.J. = WEAKENED PLANE JOINT
 E.J. = EXPANSION JOINT
 C.J. = CONSTRUCTION JOINT

NOTES:

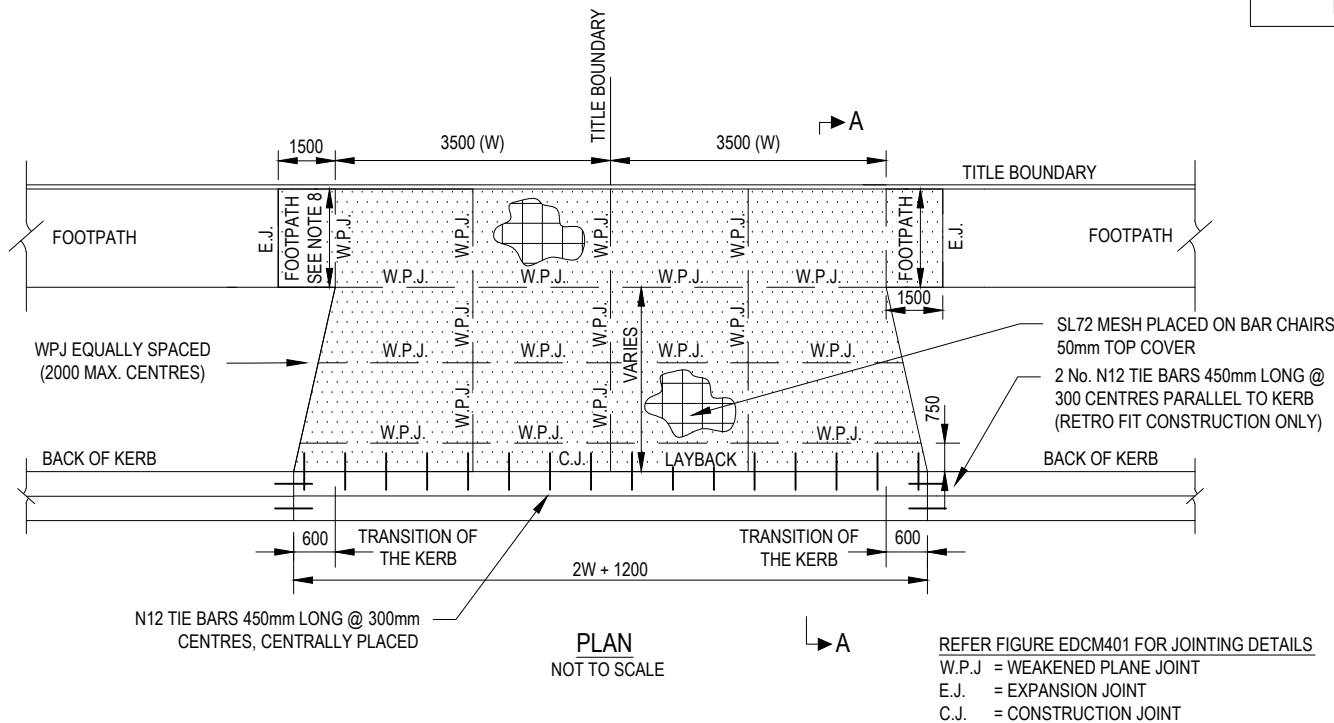
1. NO BULLNOSE IN THE INVERT OF KERB.
2. CONCRETE TO BE LIGHT BROOM FINISH WITH EDGES AND JOINTS NEATLY TOOLED AFTER THE BROOM IS APPLIED.
3. ALL FINISHED SURFACES TO COMPLY WITH AS 4586 - SLIP RESISTANT CLASSIFICATION OF NEW PEDESTRIAN SURFACE MATERIALS.
4. THE USE OF PATTERN PAVING OR COLOURED CONCRETE MUST BE APPROVED BY COUNCIL. MINIMUM STRENGTH OF COLOURED CONCRETE 32 MPa.
5. WIDTH OF CROSSING (W) 3500 UNLESS SHOWN OTHERWISE ON APPROVED PLANS.
6. WHERE CONCRETE PAVING CROSSES SERVICE, SEWER AND DRAINAGE TRENCHES, THE TRENCHES TO BE BACKFILLED WITH COMPACTED 20mm CLASS 3 CRUSHED ROCK OR CLASS 3 CRUSHED CONCRETE.
7. WHERE VEHICLE CROSSING IS RETROFITTED THE EXISTING KERB AND CHANNEL IS TO BE REMOVED AND IF THE EXISTING FOOTPATH IS LESS THAN 125mm THICK - ONE BAY OF PATH (TYPICAL 1500 WIDE) ON EITHER SIDE OF THE CROSSING IS TO BE REMOVED, REPLACED WITH 125mm THICK FOOTPATH AND JOINED TO THE EXISTING PATH WITH AN EXPANSION JOINT REFER FIGURE EDCM401.

No	Revision	Note: * Indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date
0	FINAL ISSUE		DG	MM	-	16.11.15





BETWEEN CROSSOVERS	7 METRES AT KERB
DRAINAGE PITS	0.75 METRES (WITHIN 0.75m - INSTALL CLASS D PIT LID)
TRAFFIC MANAGEMENT DEVICES	1 METRE
UTILITY SERVICE ASSETS	1 METRE
STREET LIGHT	1 METRE
INTERSECTIONS	6 METRES FROM TANGENT POINT AND CLEAR OF SPLITTER ISLANDS
PRAM CROSSING	2 METRES AT KERB
TREES	2.5 METRES
FIRE HYDRANT	1 METRE
LEGAL POINT OF DISCHARGE	1 METRE

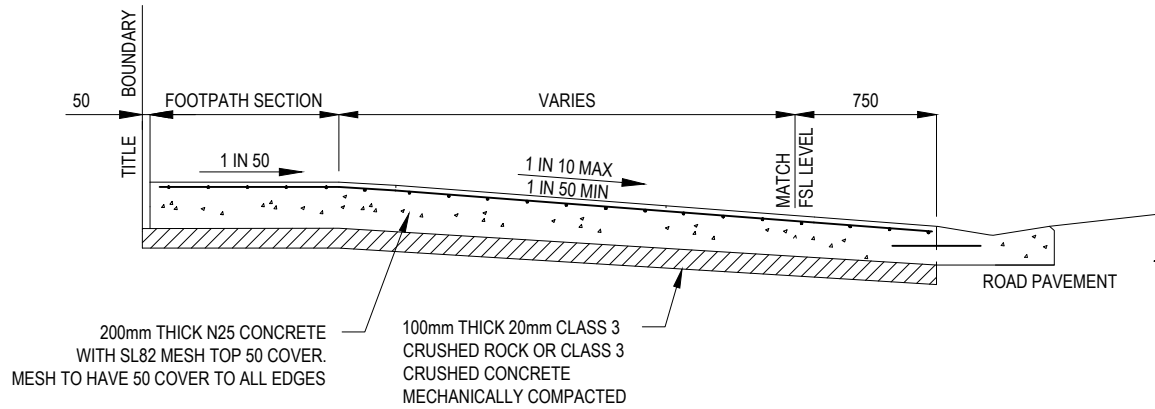


NOTES:

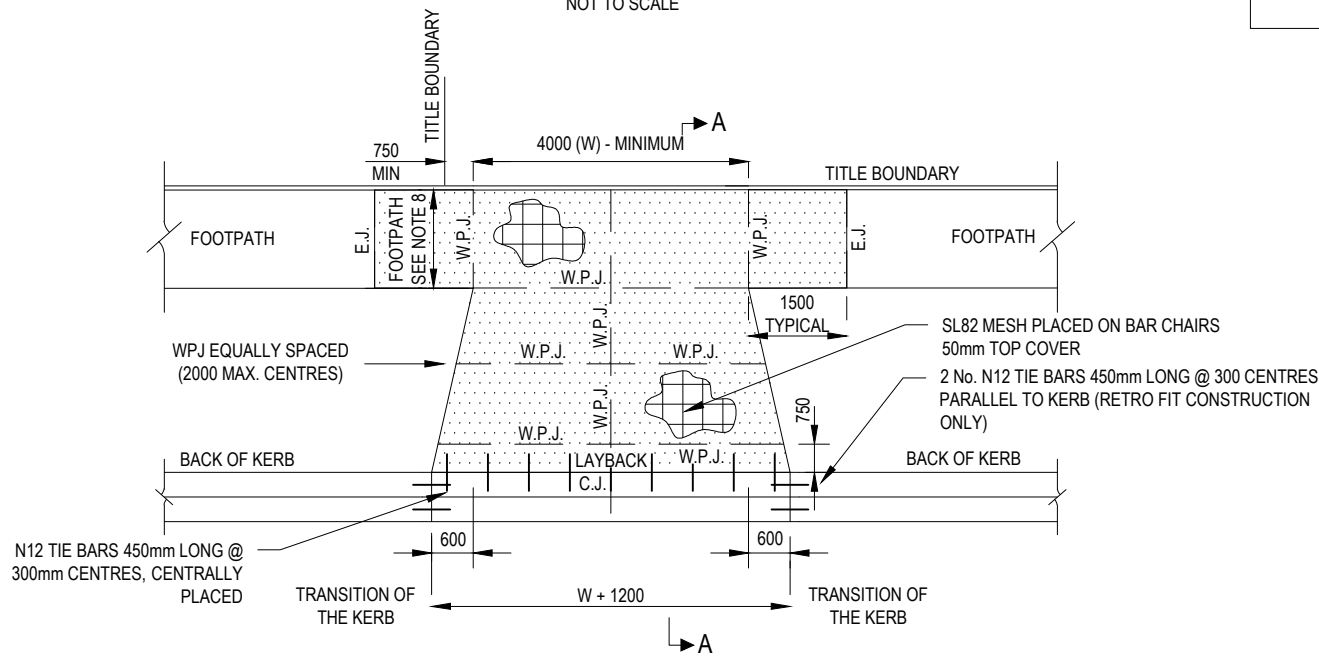
1. NO BULLNOSE IN THE INVERT OF KERB.
2. CONCRETE TO BE LIGHT BROOM FINISH WITH EDGES AND JOINTS NEATLY TOOLED AFTER THE BROOM IS APPLIED.
3. ALL FINISHED SURFACES TO COMPLY WITH AS 4586 - SLIP RESISTANT CLASSIFICATION OF NEW PEDESTRIAN SURFACE MATERIALS.
4. THE USE OF PATTERN PAVING OR COLOURED CONCRETE MUST BE APPROVED BY COUNCIL. MINIMUM STRENGTH OF COLOURED CONCRETE 32 MPa.
5. WIDTH OF CROSSING (W) 3500 UNLESS SHOWN OTHERWISE ON APPROVED PLANS.
6. WHERE CONCRETE PAVING CROSSES SERVICE, SEWER AND DRAINAGE TRENCHES, THE TRENCHES TO BE BACKFILLED WITH COMPACTED 20mm CLASS 3 CRUSHED ROCK OR CLASS 3 CRUSHED CONCRETE.
7. WHERE VEHICLE CROSSING IS RETROFITTED THE EXISTING KERB AND CHANNEL IS TO BE REMOVED AND IF THE EXISTING FOOTPATH IS LESS THAN 125mm THICK - ONE BAY OF PATH (TYPICAL 1500 WIDE) ON EITHER SIDE OF THE CROSSING IS TO BE REMOVED, REPLACED WITH 125mm THICK FOOTPATH AND JOINED TO THE EXISTING PATH WITH AN EXPANSION JOINT REFER FIGURE EDCM401.

No	Revision	Note: * Indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date
0	FINAL ISSUE		DG	MM	-	16.11.15





SECTION A - A
NOT TO SCALE



PLAN
NOT TO SCALE

REFER FIGURE EDCM401 FOR JOINTING DETAILS

W.P.J. = WEAKENED PLANE JOINT
E.J. = EXPANSION JOINT
C.J. = CONSTRUCTION JOINT

BETWEEN CROSSOVERS	7 METRES AT KERB
DRAINAGE PITS	0.75 METRES (WITHIN 0.75m - INSTALL CLASS D PIT LID)
TRAFFIC MANAGEMENT DEVICES	1 METRE
UTILITY SERVICE ASSETS	1 METRE
STREET LIGHT	1 METRE
INTERSECTIONS	6 METRES FROM TANGENT POINT AND CLEAR OF SPLITTER ISLANDS
PRAM CROSSING	2 METRES AT KERB
TREES	2.5 METRES
FIRE HYDRANT	1 METRE
LEGAL POINT OF DISCHARGE	1 METRE

NOTES:

1. NO BULLNOSE IN THE INVERT OF KERB.
2. CONCRETE TO BE LIGHT BROOM FINISH WITH EDGES AND JOINTS NEATLY TOOLED AFTER THE BROOM IS APPLIED.
3. ALL FINISHED SURFACES TO COMPLY WITH AS 4586 - SLIP RESISTANT CLASSIFICATION OF NEW PEDESTRIAN SURFACE MATERIALS.
4. THE USE OF PATTERN PAVING OR COLOURED CONCRETE MUST BE APPROVED BY COUNCIL. MINIMUM STRENGTH OF COLOURED CONCRETE 32 MPa.
5. WIDTH OF CROSSING (W) 4000 UNLESS SHOWN OTHERWISE ON APPROVED PLANS.
6. WHERE CONCRETE PAVING CROSSES SERVICE, SEWER AND DRAINAGE TRENCHES, THE TRENCHES TO BE BACKFILLED WITH COMPACTED 20mm CLASS 3 CRUSHED ROCK OR CLASS 3 CRUSHED CONCRETE.
7. WHERE VEHICLE CROSSING IS RETROFITTED THE EXISTING KERB AND CHANNEL IS TO BE REMOVED AND IF THE EXISTING FOOTPATH IS LESS THAN 200mm THICK - ONE BAY OF PATH (TYPICAL 1500 WIDE) ON EITHER SIDE OF THE CROSSING IS TO BE REMOVED, REPLACED WITH 200mm THICK FOOTPATH ON 100mm THICK 20mm CLASS 3 CRUSHED ROCK OR CLASS 3 CRUSHED CONCRETE AND JOINED TO THE EXISTING PATH WITH AN EXPANSION JOINT REFER FIGURE EDCM401.

No	Revision	Note: * Indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date
0	FINAL ISSUE		DG	MM	-	16.11.15

Plot Date: 16 November 2015 - 3:36 PM Plotted by: Kerry Walton

Cad File No: \\Infrastructure Planning\MPA standard drawings\20150506 EDCM DRAWINGS - NEW\3\2015 Drawings\EDCM - 503.dwg



STANDARD DRAWINGS FOR
SUBDIVISIONS IN GROWTH AREAS
**HEAVY DUTY
VEHICLE CROSSING**

Revision | 0
Date | DEC 2015
EDCM 503

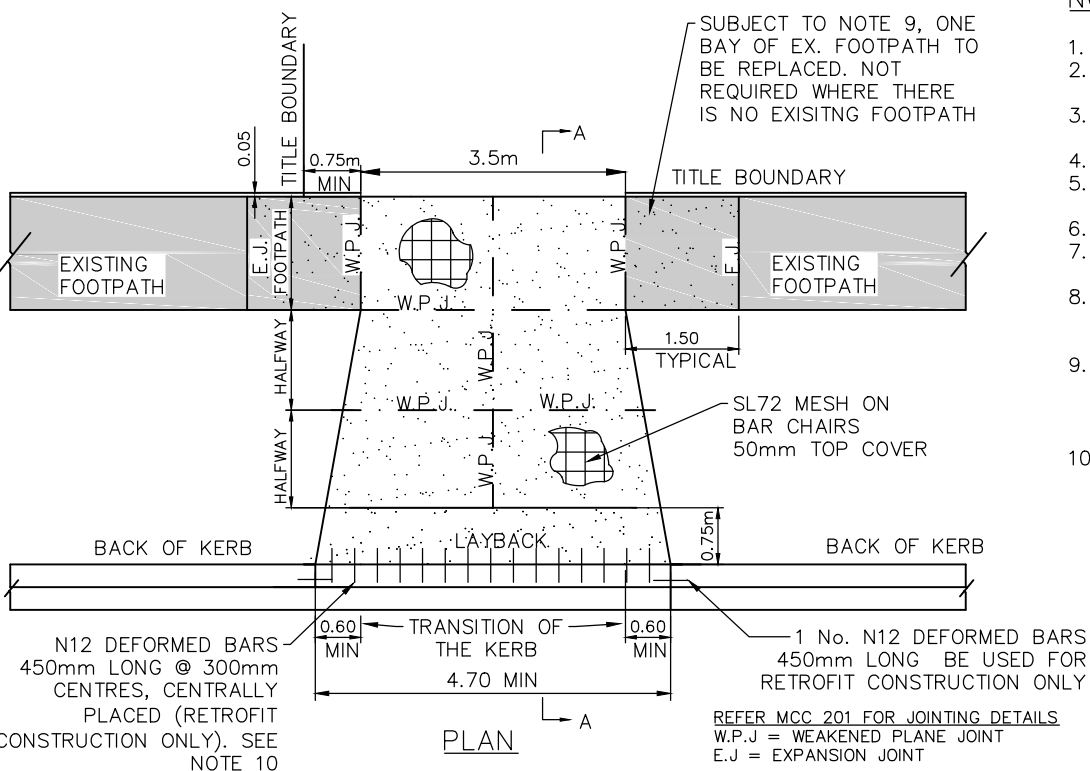
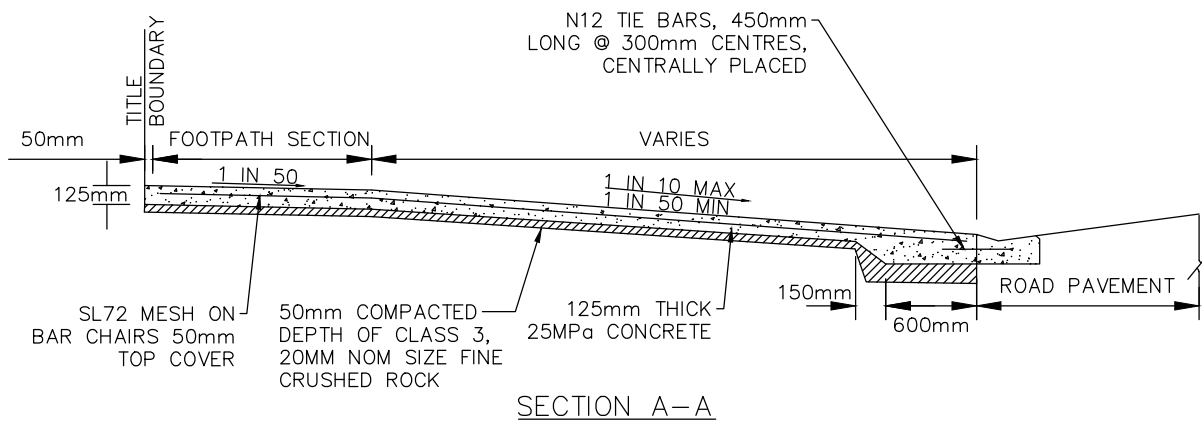
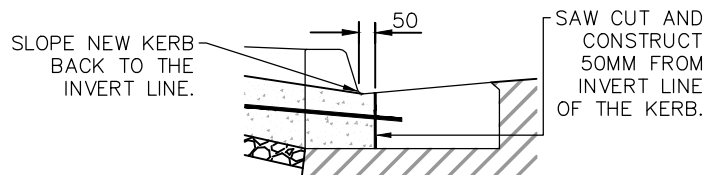


TABLE 1: MINIMUM CLEARANCES	
BETWEEN CROSSOVERS	6 METRES AT KERB
DRAINAGE PITS	0.75 METRES (IF WITHIN 0.75M OF PIT EDGE)-INSTALL CLASS B FIBRE CLASS PIT LID) (IF PIT IN CROSSOVER - MODIFY PIT & LID AS PER MCC 611 OR MCC 612)
TRAFFIC MANAGEMENT DEVICES	1 METRE
UTILITY SERVICE ASSETS	1 METRE
STREET LIGHT	1 METRES
INTERSECTIONS	6.0m FROM TANGENT POINT
PRAM CROSSINGS	2 METRES
TREES	2.5m (DEPENDANT ON SIZE OF TREE)
FIRE HYDRANT	1 METRES
BACK OF KERB LEGAL POINT OF DISCHARGE	1 METRE

NOTES:

1. NO BULLNOSE IN THE INVERT OF KERB SHALL BE ACCEPTED
2. CONCRETE TO BE LIGHT BROOM FINISH WITH EDGES AND JOINTS NEATLY TOOLED AFTER THE BROOM IS APPLIED
3. ALL FINISHED SURFACES TO COMPLY WITH AS 4586-SLIP RESISTANT CLASSIFICATION OF NEW PEDESTRIAN SURFACE MATERIALS.
4. NO PATTERN-PAVE FINISH OR COLOURED CONCRETE IS TO BE USED.
5. EXPANSION JOINT SHALL HAVE 3 No. N12 Ø DEFORMED BARS, 450mm LONG @ 300mm CENTRES AND AT CENTRAL DEPTH.
6. CONCRETE USED FOR RESIDENTIAL VEHICLE CROSSING SHALL BE 25MPa AT 28 DAYS.
7. REINFORCING TO BE PLACED 50mm FROM TOP OF SLAB AND MUST ACHIEVE MIN 50mm COVER TO ALL EDGES.
8. WHERE CONCRETE PAVING CROSSES SERVICE, SEWER AND DRAINAGE TRENCHES, THE TRENCHES TO BE BACKFILLED WITH COMPACTED 20mm CLASS 3 CRUSHED ROCK OR CLASS 3 CRUSHED CONCRETE
9. WHERE VEHICLE CROSSING IS RETROFITTED AND IF THE EXISTING FOOTPATH IS LESS THAN 125mm THICK - ONE BAY OF PATH (TYPICAL 1500 WIDE) ON EITHER SIDE OF THE CROSSING IS TO BE REMOVED, REPLACED WITH 125mm THICK FOOTPATH AND JOINED TO THE EXISTING PATH WITH AN EXPANSION JOINT AS PER EDCM 401.
10. WHERE VEHICLE CROSSING IS RETROFITTED, THE EXISTING BARRIER TYPE KERB AND CHANNEL IS TO BE SAW CUT AS PER SAWCUT DETAIL BELOW.



BARRIER TYPE KERB SAWCUT DETAIL

ISSUE	APPD	DATE	AMENDMENT
H	M.H.	28/02/22	INCREASED OFFSET FROM BOUNDARY
G	M.H.	06/18	MADE MINOR AMENDMENTS
F	M.H.	01/18	UPDATED CLEARANCES TO MATCH NEW CROSSOVER POLICY
E	M.H.	01/13	AMENDED AS PER INTERNAL FEEDBACK AND UPDATED EDCM DWGs
D	V.C.D	01/13	REMOVED WINGS AND REPLACED WITH SPLAYS

GENERAL NOTES
REFER MCC 201 FOR JOINTING DETAILS W.P.J = WEAKENED PLANE JOINT E.J = EXPANSION JOINT

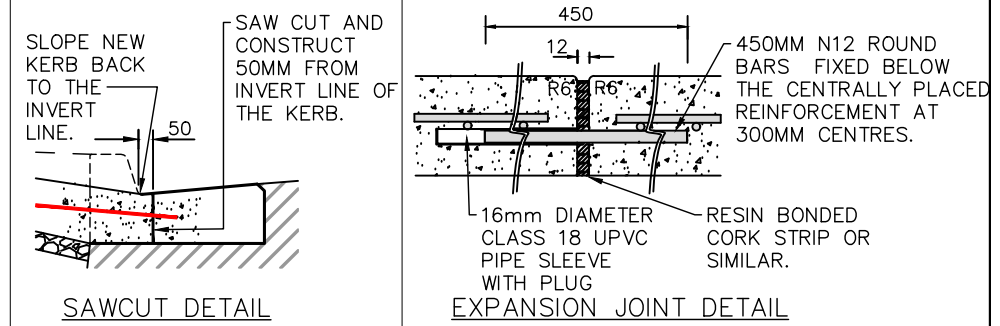
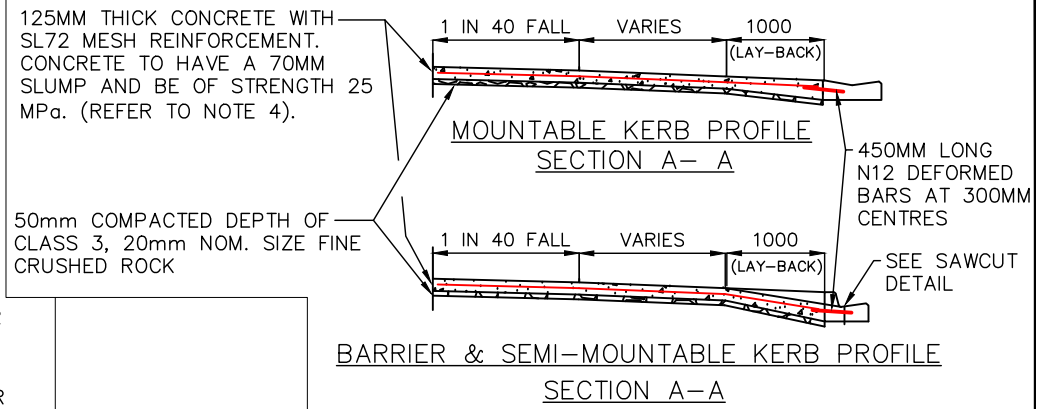
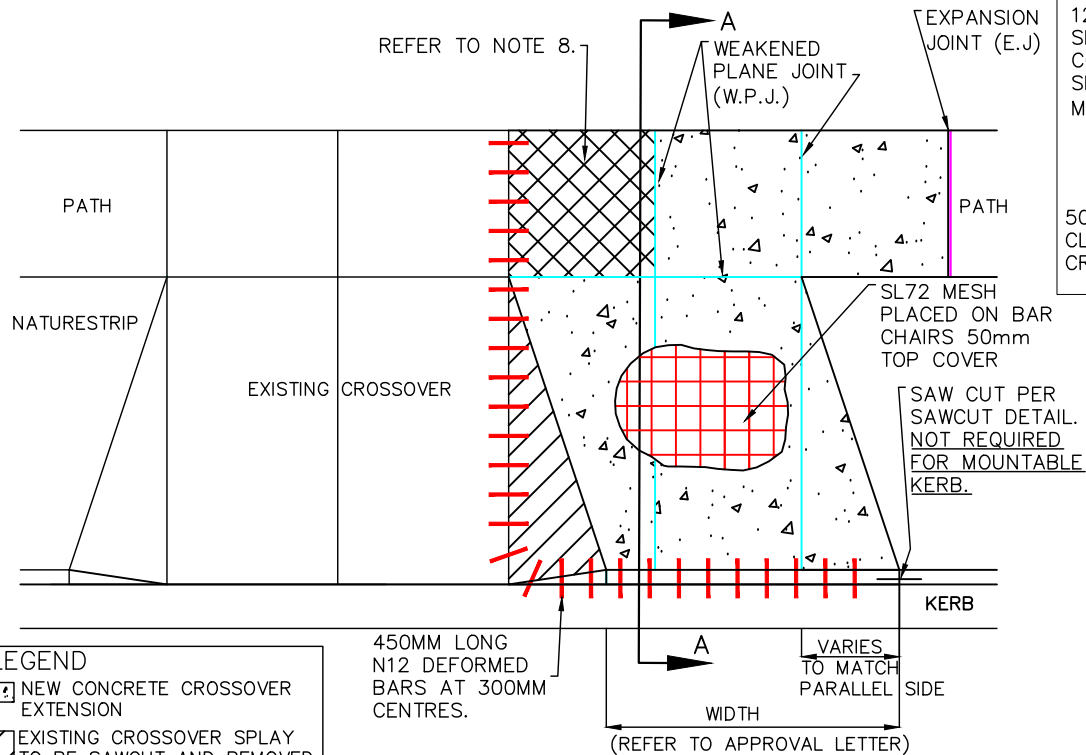
CITY OF
MELTON
ENGINEERING SERVICES DEPT

DESIGN	L.SHE
DRAWN	L.SHE
CHECKED	M.HUTCHINSON
DATE	APRIL 2016

PROJECT	STANDARD DRAWING - MCC 501
DETAILS	SINGLE RESIDENTIAL VEHICLE CROSSING

N.T.S.	
SHEET 1 OF 1	PAPER A4
DRAWING No.	REV H
FILE NAME MCC 501 - SINGLE RESIDENTIAL VEHICLE CROSSING.DWG	

28/02/2022 12:20:59 PM



LEGEND

NEW CONCRETE CROSSOVER EXTENSION

EXISTING CROSSOVER SPLAY TO BE SAWCUT AND REMOVED

TABLE 1: MINIMUM CLEARANCES

BETWEEN CROSSOVERS	6 METRES AT KERB
DRAINAGE PITS	0.75 METRES (IF WITHIN 0.75M OF PIT EDGE)—INSTALL CLASS B FIBRE GLASS PIT LID (IF PIT IN CROSSOVER — MODIFY PIT & LID AS PER MCC 611 OR MCC 612)
TRAFFIC MANAGEMENT DEVICES	1 METRE
UTILITY SERVICE ASSETS	1 METRE
STREET LIGHT	1 METRES
INTERSECTIONS	6.0m FROM TANGENT POINT
PRAM CROSSINGS	2 METRES
TREES	2.5m (DEPENDANT ON SIZE OF TREE)
FIRE HYDRANT	1 METRES
BACK OF KERB LEGAL POINT OF DISCHARGE	1 METRE

- NOTES:**
- PRIOR TO THE WIDENING OF ANY CROSSOVER APPROVAL FROM ENGINEERING SERVICES MUST BE OBTAINED.
 - WIDTH OF EXTENSION SHALL BE DETAILED IN CROSSOVER APPROVAL LETTER FROM ENGINEERING SERVICES.
 - PLEASE ENSURE APPROVAL IS OBTAINED FROM ANY RELEVANT SERVICE AUTHORITIES (EG TELSTRA, WATER AUTHORITY, SEWER AUTHORITY ETC).
 - REINFORCEMENT MESH TO BE CENTRALLY PLACED THROUGHOUT CROSSING. MINIMUM 50MM COVER AT ALL TIMES, APPROVED BAR CHAIRS MUST BE USED FOR PROPER PLACEMENT OF REINFORCEMENT. JOINTS TO OVERLAP ONE FULL PATTERN AS PER AS3600 AND AS2870.1
 - CROSSOVER PROFILE TO MATCH EXISTING ENVIRONMENT OR AS DIRECTED BY COUNCIL ENGINEER.
 - WHEN A LAYBACK IS POURED SEPARATELY, THEN 450MM N12 BARS ARE TO BE USED TO JOIN LAYBACK TO CROSSOVER.
 - PATH AND CROSSING TO BE JOINTED AS SHOWN. WEAKENED PLANE JOINT SPACING TO MATCH EXISTING, OR EQUAL WIDTH OF PATH WHERE PRESENT.
 - PATH COMPONENT OF CROSSOVER TO BE 125MM THICK WITH SL72 REINFORCEMENT. NOT REQUIRED IF THERE IS NO EXISTING PATH NETWORK OR IF THE EXISTING PATH IS COMPLIANT.
 - NATURE STRIP TO BE MADE FLUSH WITH NEW CONCRETE WORKS AND SHALL BE OF APPROVED TOPSOIL AND SEED.

19/7/2018 2:47:52 PM

ISSUE	APPD	DATE	AMENDMENT
E	M.H	10/17	UPDATED CLEARANCES TO NEW CROSSOVER POLICY
D	M.H	05/16	REVIEWED AND UPDATED PER EDGM
C	M.H	06/11	REVIEWED AND UPDATED 2011 STANDARD DRAWINGS
B	V.C.D.	03/09	ADDED TABLE 1 AND MODIFIED NOTES
A	J.V.	06/07	REVIEWED AND UPDATED 2000 STANDARD DRAWINGS

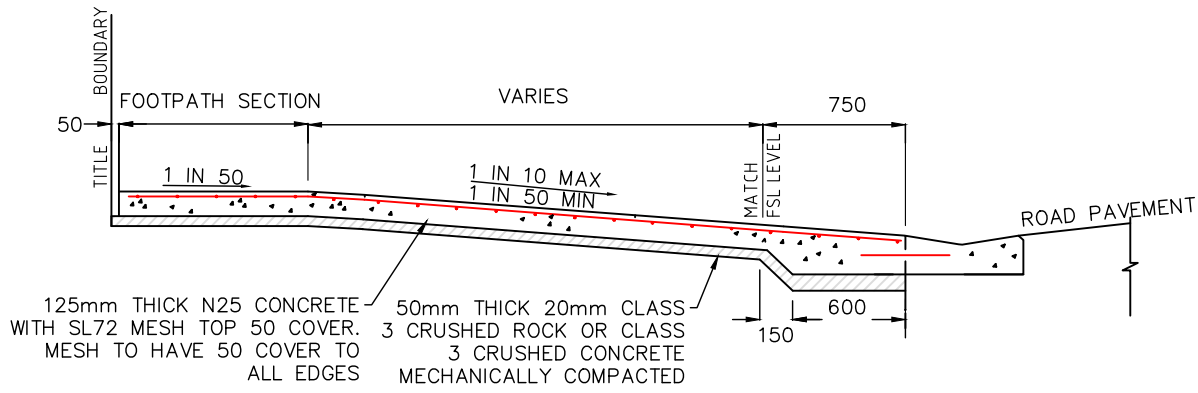
GENERAL NOTES



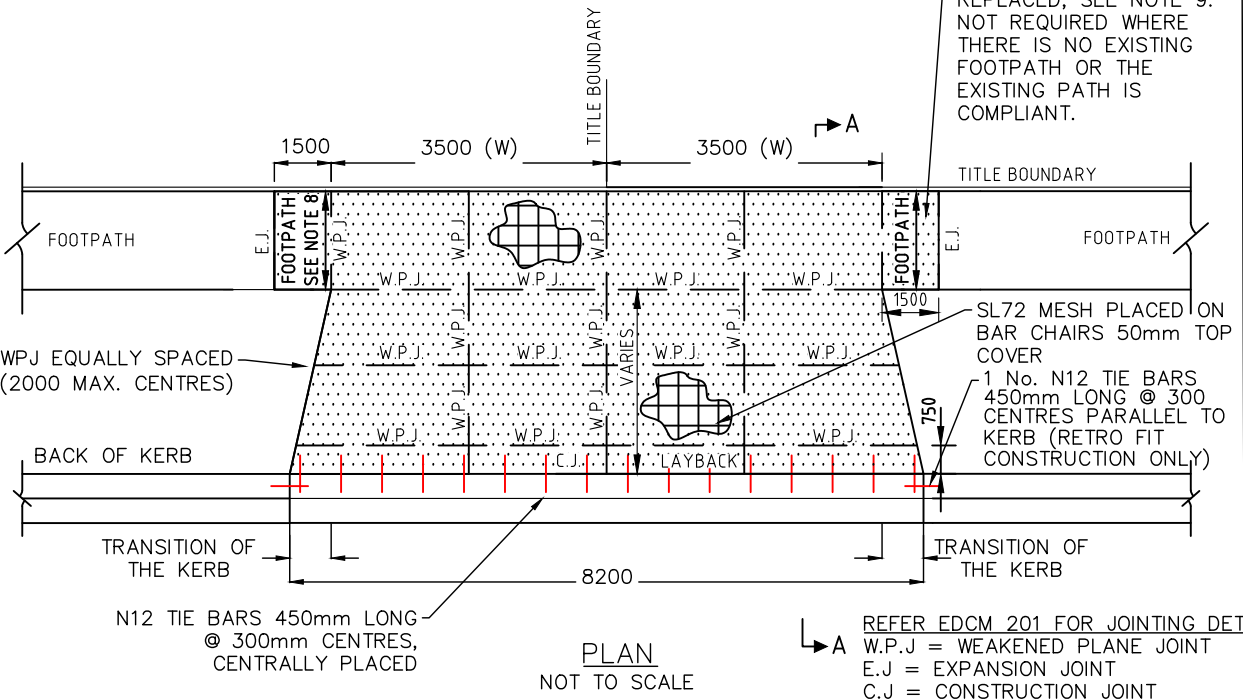
DESIGN	L.SHE
DRAWN	L.SHE
CHECKED	M.HUTCHINSON
DATE	MAY 2016

PROJECT	STANDARD DRAWING - MCC 502
DETAILS	EXTENSION OF CROSSOVER

N.T.S.	
SHEET 1 OF 1	PAPER A4
DRAWING No.	REV E
FILE NAME MCC 502 - EXTENSION OF CROSSOVER.DWG	



SECTION A-A
NOT TO SCALE



PLAN
NOT TO SCALE

ONE BAY OF EX. FOOTPATH TO BE REPLACED, SEE NOTE 9. NOT REQUIRED WHERE THERE IS NO EXISTING FOOTPATH OR THE EXISTING PATH IS COMPLIANT.

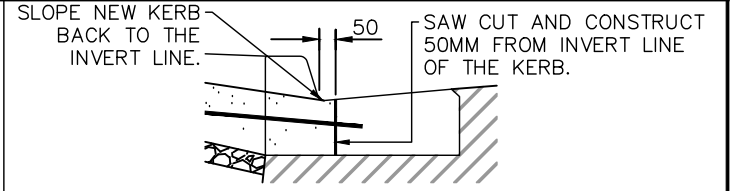
REFER EDCM 201 FOR JOINTING DETAILS
W.P.J = WEAKENED PLANE JOINT
E.J = EXPANSION JOINT
C.J = CONSTRUCTION JOINT

TABLE 1: MINIMUM CLEARANCES

BETWEEN CROSSOVERS	6 METRES AT KERB
DRAINAGE PITS	0.75 METRES (IF WITHIN 0.75M OF PIT EDGE)—INSTALL CLASS B FIBRE GLASS PIT LID (IF PIT IN CROSSOVER — MODIFY PIT & LID AS PER MCC 611 OR MCC 612)
TRAFFIC MANAGEMENT DEVICES	1 METRE
UTILITY SERVICE ASSETS	1 METRE
STREET LIGHT	1 METRES
INTERSECTIONS	6.0m FROM TANGENT POINT
PRAM CROSSINGS	2 METRES
TREES	2.5m (DEPENDANT ON SIZE OF TREE)
FIRE HYDRANT	1 METRES
BACK OF KERB LEGAL POINT OF DISCHARGE	1 METRE

NOTES:

1. NO BULLNOSE IN THE INVERT OF KERB SHALL BE ACCEPTED
2. CONCRETE TO BE LIGHT BROOM FINISH WITH EDGES AND JOINTS NEATLY TOOLED AFTER THE BROOM IS APPLIED
3. ALL FINISHED SURFACES TO COMPLY WITH AS 4586—SLIP RESISTANT CLASSIFICATION OF NEW PEDESTRIAN SURFACE MATERIALS.
4. NO PATTERN—PAVE FINISH OR COLOURED CONCRETE IS TO BE USED.
5. EXPANSION JOINT SHALL HAVE 3 No. (TYP) N12 Ø DEFORMED BARS, 450mm LONG @ 300mm CENTERS AND AT CENTRAL DEPTH.
6. CONCRETE USED FOR RESIDENTIAL VEHICLE CROSSING SHALL BE 25MPa AT 28 DAYS.
7. REINFORCING TO BE PLACED 50mm FROM TOP OF SLAB AND MUST ACHIEVE MIN 50mm COVER TO ALL EDGES.
8. WHERE CONCRETE PAVING CROSSES SERVICE, SEWER AND DRAINAGE TRENCHES, THE TRENCHES TO BE BACKFILLED WITH COMPACTED 20mm CLASS 3 CRUSHED ROCK OR CLASS 3 CRUSHED CONCRETE
9. WHERE VEHICLE CROSSING IS RETROFITTED AND IF THE EXISTING FOOTPATH IS LESS THAN 125mm THICK — ONE BAY OF PATH (TYPICAL 1500 WIDE) ON EITHER SIDE OF THE CROSSING IS TO BE REMOVED, REPLACED WITH 125mm THICK FOOTPATH AND JOINED TO THE EXISTING PATH WITH AN EXPANSION JOINT REFER EDCM 401
10. WHERE VEHICLE CROSSING IS RETROFITTED, THE EXISTING BARRIER TYPE KERB AND CHANNEL IS TO BE SAW CUT AS PER SAWCUT DETAIL.



SAWCUT DETAIL

19/7/2018 2:47:55 PM

ISSUE	APPD	DATE	AMENDMENT
E			
D	M.H.	06/18	MADE MINOR AMENDMENTS
C	M.H.	10/17	UPDATED CLEARANCES TO NEW CROSSOVER POLICY
B	M.H.	06/16	REVISED DRAWING FONTS, LINEWEIGHTS & REFERENCED DWGS
A	M.H.	06/16	INCORPORATED EDCM DRAWING DETAILS

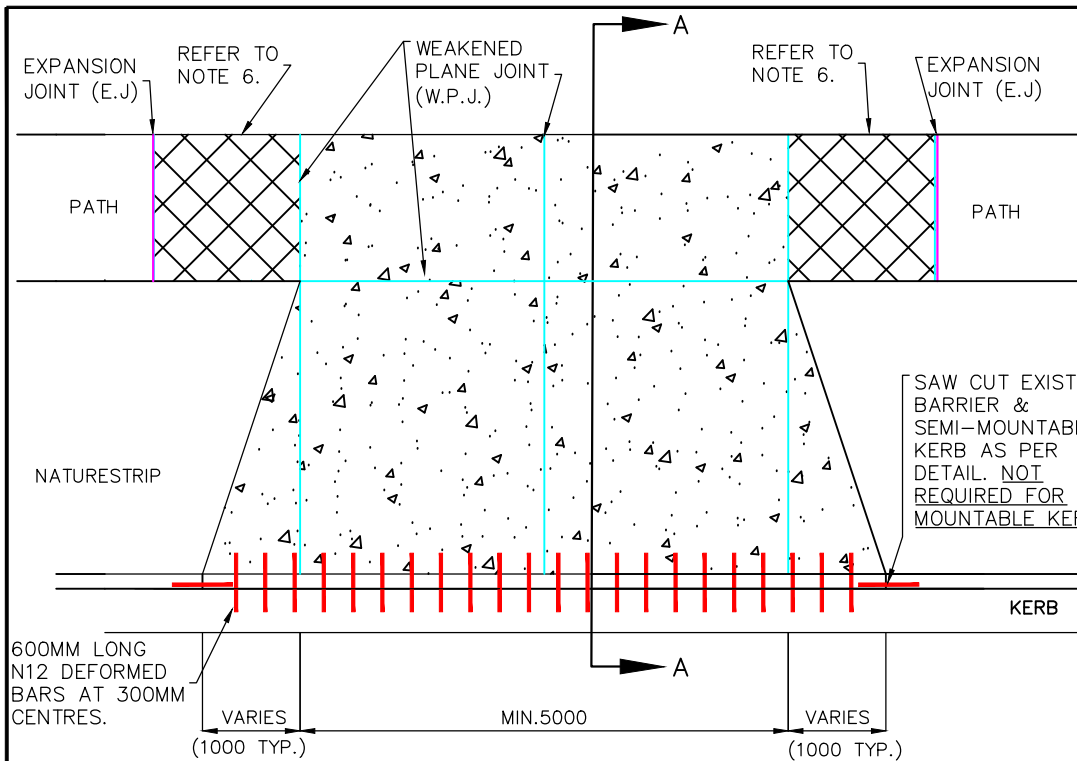
GENERAL NOTES	



DESIGN	L.SHE
DRAWN	L.SHE
CHECKED	M.HUTCHINSON
DATE	APRIL 2016

PROJECT	STANDARD DRAWING - MCC 503	
DETAILS	DOUBLE RESIDENTIAL VEHICLE CROSSING	

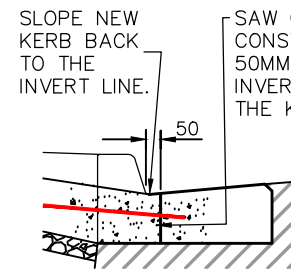
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SHEET 1 OF 1	PAPER A4
DRAWING No.	REV D
FILE NAME	MCC 503 - DOUBLE RESIDENTIAL VEHICLE CROSSING.DWG



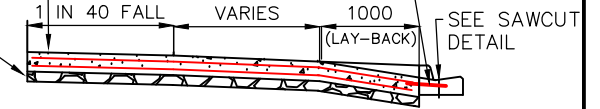
200MM THICK CONCRETE WITH TWO SHEETS OF SL82 MESH REINFORCEMENT. CONCRETE TO HAVE A 70MM SLUMP AND BE OF STRENGTH 25 MPa. (REFER TO NOTE 2).

COMPACTED 100MM THICK 20MM SIZE CLASS 3 CRUSHED ROCK ON TOP OF APPROVED SUBGRADE.

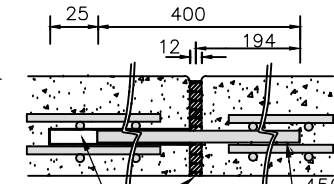
BARRIER & SEMI-MOUNTABLE KERB PROFILE
SECTION A-A



SAWCUT DETAIL



SAW CUT AND CONSTRUCT 50MM FROM INVERT LINE OF THE KERB.



16mm DIAMETER CLASS 18 UPVC PIPE SLEEVE WITH PLUG

RESIN BONDED CORK STRIP OR SIMILAR.

EXPANSION JOINT DETAIL

TABLE 1: MINIMUM CLEARANCES

BETWEEN CROSSOVERS	6 METRES AT KERB
DRAINAGE PITS	0.75METRES (IF WITHIN 0.75M OF PIT EDGE)--INSTALL FIBREGLASS PIT LID (IF PIT IN CROSSOVER - MODIFY PIT & LID)
TRAFFIC MANAGEMENT DEVICES	1 METRE
UTILITY SERVICE ASSETS	1 METRE
STREET LIGHT	1 METRES
INTERSECTIONS	6.0m FROM TANGENT POINT
PRAM CROSSINGS	2 METRES
TREES	2.5m (DEPENDANT ON SIZE OF TREE)
FIRE HYDRANT	1 METRES
BACK OF KERB LEGAL POINT OF DISCHARGE	1 METRE

NOTES:

- PLEASE ENSURE APPROVAL IS OBTAINED FROM ANY RELEVANT SERVICE AUTHORITIES (EG TELSTRA, WATER AUTHORITY, SEWER AUTHORITY ETC).
- REINFORCEMENT MESH TO BE CENTRALLY PLACED THROUGHOUT CROSSING. MINIMUM 50MM COVER AT ALL TIMES, APPROVED BAR CHAIRS MUST BE USED FOR PROPER PLACEMENT OF REINFORCEMENT. JOINTS TO OVERLAP ONE FULL PATTERN AS PER AS3600 AND AS2870.1
- WHEN A LAYBACK IS POURED SEPARATELY, THEN 600MM N12 BARS ARE TO BE USED TO JOIN LAYBACK TO CROSSOVER.
- PATH AND CROSSING TO BE JOINTED AS SHOWN. WEAKENED PLANE JOINT SPACING TO MATCH EXISTING, OR EQUAL WIDTH OF PATH WHERE PRESENT.
- PATH COMPONENT OF CROSSOVER TO BE 200MM THICK WITH 2 LAYERS OF SL 82 REINFORCEMENT. NOT REQUIRED IF THERE IS NO EXISTING PATH.
- NATURE STRIP TO BE MADE FLUSH WITH NEW CONCRETE WORKS AND SHALL BE OF APPROVED TOPSOIL AND SEED.
- WHERE THE MINIMUM CLEARANCES (TABLE 1) CANNOT BE MET, WRITTEN APPROVAL IS REQUIRED FROM MELTON CITY COUNCIL ENGINEERING SERVICES DEPARTMENT.

1/3/2019 9:09:48 AM

ISSUE	APPD	DATE	AMENDMENT
F	M.H.	03/19	REMOVED REO IN PLAN VIEW, REMOVED OLD NOTE 3
E	M.H.	10/17	UPDATED CLEARANCES TO NEW CROSSOVER POLICY
D	M.H.	12/16	REVIEWED AND UPDATED FONT AND DRAWING NUMBER
C	V.C.D.	03/09	REVIEWED AND REVISED PER INTERNAL FEEDBACK
B	V.C.D.	03/09	ADDED TABLE 1 & MODIFIED NOTES

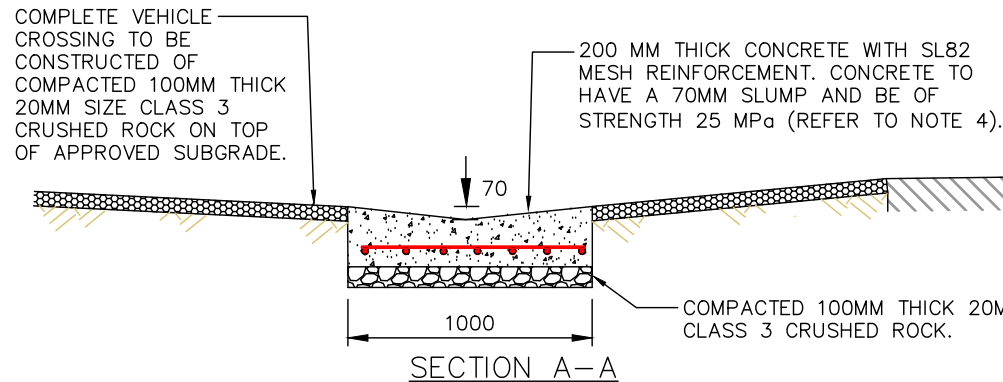
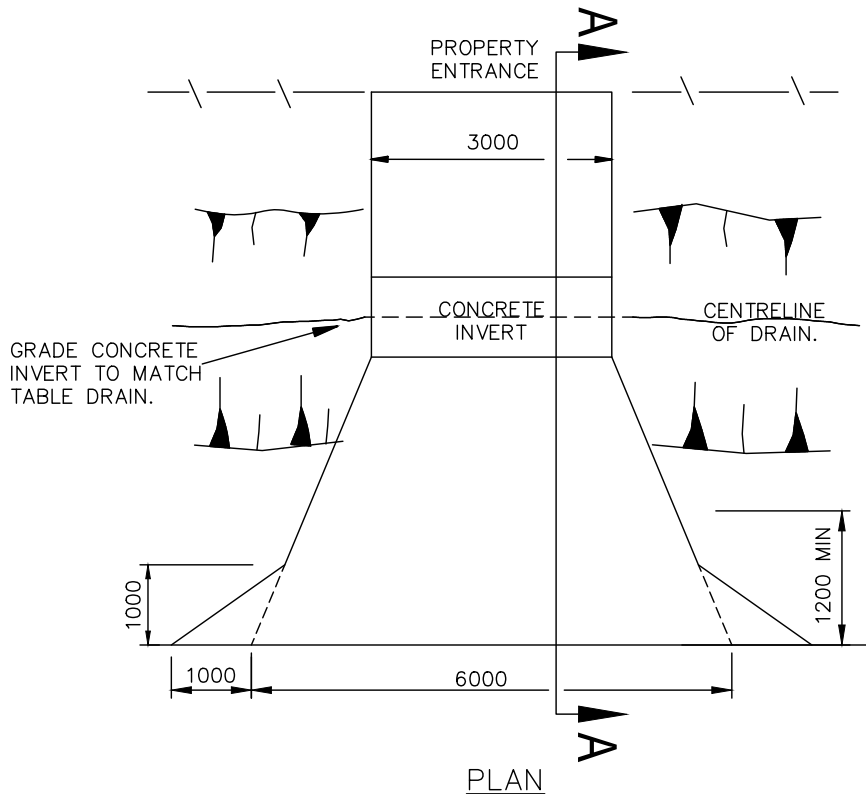
GENERAL NOTES



DESIGN	L.SHE
DRAWN	L.SHE
CHECKED	M.HUTCHINSON
DATE	APRIL 2016

PROJECT	STANDARD DRAWING - MCC 504
DETAILS	INDUSTRIAL VEHICLE CROSSING

N.T.S.	
SHEET	PAPER
1 OF 1	A4
DRAWING No.	REV
	F
FILE NAME	
MCC 504 - INDUSTRIAL VEHICLE CROSSING.DWG	



BETWEEN CROSSOVERS	6 METRES AT KERB
DRAINAGE PITS	0.75 METRES (IF WITHIN 0.75M OF PIT EDGE)—INSTALL CLASS B FIBRE GLASS PIT LID) (IF PIT IN CROSSOVER – MODIFY PIT & LID AS PER MCC 611 OR MCC 612)
TRAFFIC MANAGEMENT DEVICES	1 METRE
UTILITY SERVICE ASSETS	1 METRE
STREET LIGHT	1 METRES
INTERSECTIONS	6.0m FROM TANGENT POINT
PRAM CROSSINGS	2 METRES
TREES	2.5m (DEPENDANT ON SIZE OF TREE)
FIRE HYDRANT	1 METRES
BACK OF KERB LEGAL POINT OF DISCHARGE	1 METRE

NOTES

1. THIS TYPE OF VEHICLE CROSSING WILL BE APPROVED ONLY WHEN TABLE DRAIN IS OF INSUFFICIENT DEPTH TO INSTALL A PIPE CULVERT (REFER TO MCC 506).
2. IF ACCESS ABUTS A DECLARED ARTERIAL ROAD, THEN TOWN PLANNING PERMIT MUST BE OBTAINED.
3. PLEASE ENSURE APPROVAL IS OBTAINED FROM ANY RELEVANT SERVICE AUTHORITIES (EG TELSTRA, WATER AUTHORITY, SEWER AUTHORITY ETC).
4. REINFORCEMENT MESH TO BE CENTRALLY PLACED THROUGHOUT CROSSING. MINIMUM 50MM COVER AT ALL TIMES. APPROVED BAR CHAIRS MUST BE USED FOR PROPER PLACEMENT OF REINFORCEMENT. JOINTS TO OVERLAP ONE FULL PATTERN AS PER AS3600 & AS2870.1.
5. NATURE STRIP TO BE MADE FLUSH WITH NEW CONCRETE WORKS AND SHALL BE OF APPROVED TOP SOIL AND SEED.

19/7/2018 2:48:03 PM

ISSUE	APPD	DATE	AMENDMENT
E	M.H.	06/18	AMENDED CLEARANCE TABLE
D	M.H.	10/17	UPDATED CLEARANCE TO NEW CROSSOVER POLICY
C	M.H.	12/16	AMENDED LINE WEIGHTS, FONTS & REFERENCE DWGS
B	V.C.D.	03/09	ADDED TABLE 1 & MODIFIED NOTES
A	J.V.	06/07	REVIEWED AND UPDATED 2000 STANDARD DRAWINGS

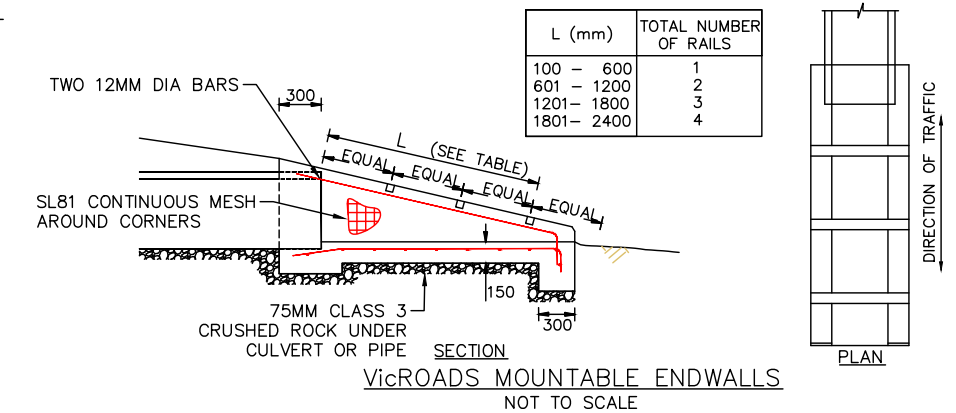
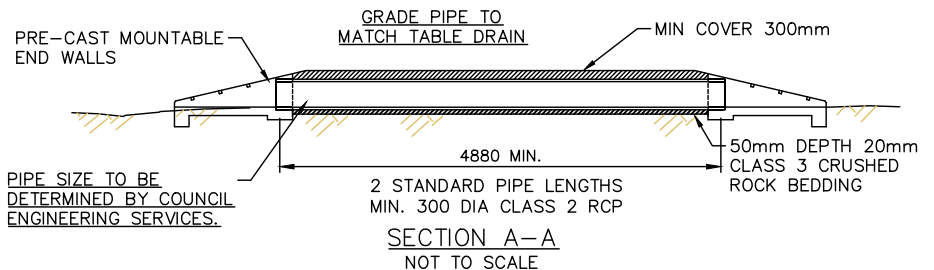
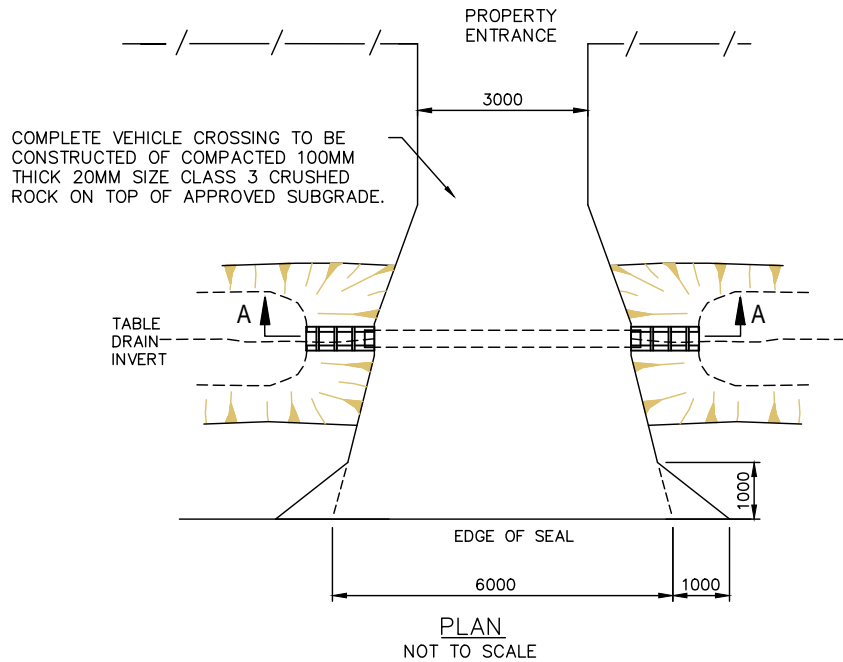
GENERAL NOTES	



DESIGN	L.SHE
DRAWN	L.SHE
CHECKED	M.HUTCHINSON
DATE	APRIL 2016

PROJECT	STANDARD DRAWING - MCC 505
DETAILS	RURAL VEHICLE CROSSING FOR SHALLOW TABLE DRAIN

N.T.S.	
SHEET 1 OF 1	PAPER A4
DRAWING No.	REV E
FILE NAME MCC 505 -RURAL VEHICLE CROSSING FOR SHALLOW TABLE DRAINS.DWG	



- NOTES**
1. THIS TYPE OF VEHICLE CROSSING WILL BE APPROVED ONLY WHEN TABLE DRAIN IS TOO DEEP TO INSTALL A SHALLOW TABLE DRAIN CROSSOVER (REFER TO MCC 505).
 2. END WALLS TO BE PRE CAST VICROADS STYLE MOUNTABLE END WALLS.
 3. PLEASE ENSURE APPROVAL IS OBTAINED FROM ANY RELEVANT SERVICE AUTHORITIES (EG TELSTRA, WATER AUTHORITY, SEWER AUTHORITY ETC).
 4. SLOPE OF ENDWALL TO MATCH BATTER SLOPE. MAXIMUM SLOPE 1 IN 4.
 5. NATURE STRIP TO BE MADE FLUSH WITH NEW WORKS AND SHALL BE OF APPROVED TOP SOIL AND SEED.
 6. WHERE THE MINIMUM CLEARANCES (TABLE1) CANNOT BE MET, WRITTEN APPROVAL IS REQUIRED FROM MELTON CITY COUNCIL ENGINEERING SERVICES DEPARTMENT.

TABLE 1: MINIMUM CLEARANCES	
BETWEEN CROSSOVERS	6 METRES AT KERB
DRAINAGE PITS	0.75 METRES (IF WITHIN 0.75M OF PIT EDGE)-INSTALL CLASS B FIBRE GLASS PIT LID (IF PIT IN CROSSOVER - MODIFY PIT & LID AS PER MCC 611 OR MCC 612)
TRAFFIC MANAGEMENT DEVICES	1 METRE
UTILITY SERVICE ASSETS	1 METRE
STREET LIGHT	1 METRES
INTERSECTIONS	6.0m FROM TANGENT POINT
PRAM CROSSINGS	2 METRES
TREES	2.5m (DEPENDANT ON SIZE OF TREE)
FIRE HYDRANT	1 METRES
LEGAL POINT OF DISCHARGE	1 METRE

ISSUE	APPD	DATE	AMENDMENT
E			
D	M.H.	10/17	UPDATED CLEARANCES TO NEW CROSSOVER POLICY
C	M.H.	12/16	REMOVED GUIDE POSTS & REVISED DWG FONTS
B	V.C.D.	03/09	ADDED TABLE 1 & MODIFIED NOTES
A	J.V.	06/07	REVIEWED AND UPDATED 2000 STANDARD DRAWINGS

GENERAL NOTES

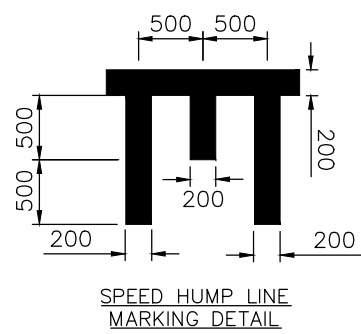
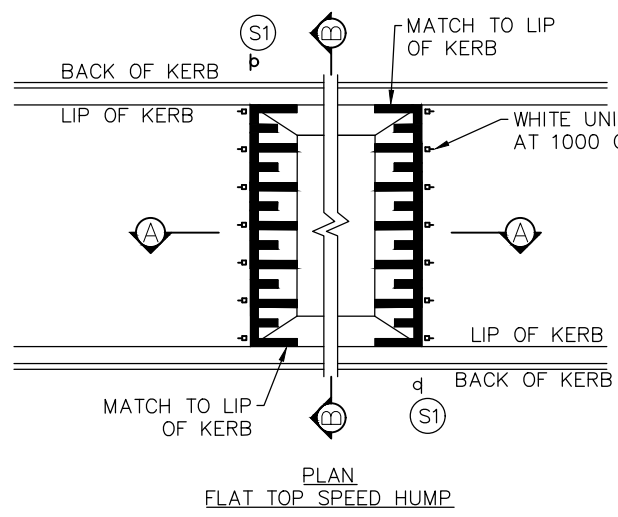
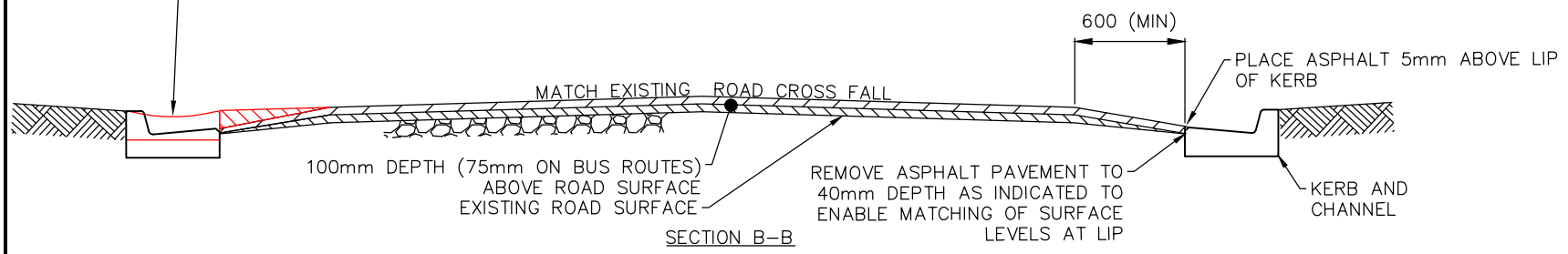
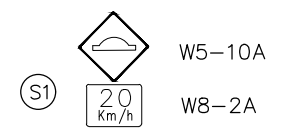
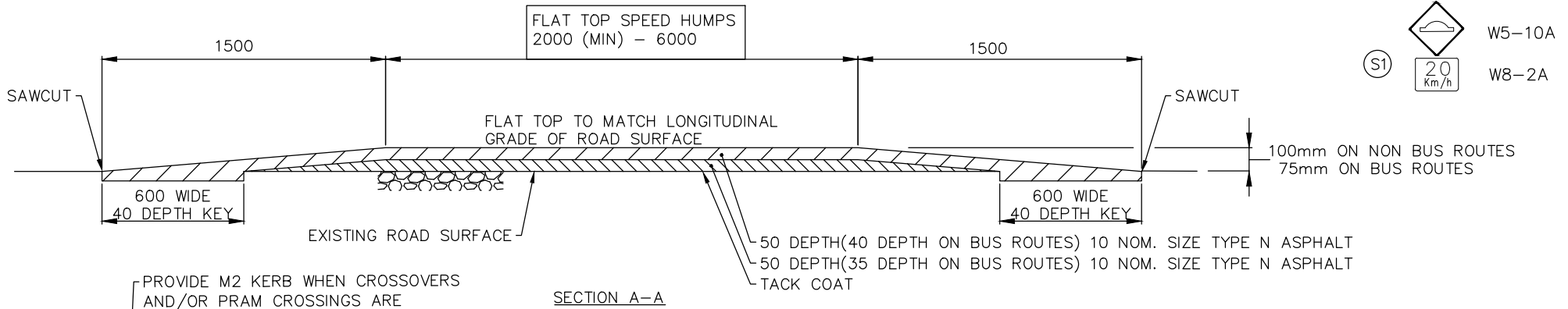


DESIGN	L.SHE
DRAWN	L.SHE
CHECKED	M.HUTCHINSON
DATE	APRIL 2016

PROJECT
STANDARD DRAWING - MCC 506

DETAILS
RURAL PIPE CULVERT VEHICLE CROSSING

N.T.S.	
SHEET 1 OF 1	PAPER A4
DRAWING No.	REV D
FILE NAME MCC 506 - RURAL PIPE CULVERT VEHICLE CROSSING.DWG	



- NOTES:
1. ALL DESIGN TO BE IN ACCORDANCE WITH 'AUSTRROADS AGTM08 – PART 8 – LATM'
 2. FLAT TOP WIDTH SHOULD BE MIN. 6m FOR BUSES.
 3. ALL TRAFFIC MANAGEMENT DEVICES SHOULD BE SUPPLEMENTED WITH ADEQUATE STREET LIGHTING
 4. ALL LINE MARKING TO BE THERMOPLASTIC OR COLD APPLIED PLASTIC LONG-LIFE TYPE
 5. ALL SIGNS TO BE INSTALLED AS PER MCC 205
 6. ASPHALT LEVELS TO BE CONSTRUCTED WITHIN TOLERANCE OF +10/-5mm.
 7. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE
 8. CROSSOVERS MUST BE MIN. 1m FROM SPEED HUMPS

23/11/2021 11:03:09 AM

ISSUE	APPD	DATE	AMENDMENT
E			
D			
C	---	20/10/21	ADDED M2 DETAILS, UPDATED RAMP GRADE. 25/10+8/11+22/11 CHANGES
B	M.H	07/04/2020	---
A	M.H	08/03/2019	ADDED TO SET

GENERAL NOTES

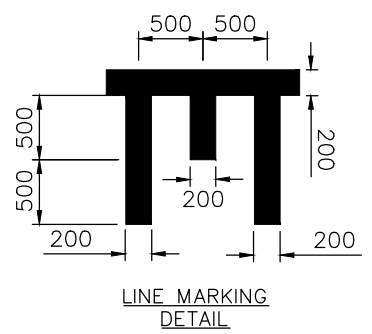
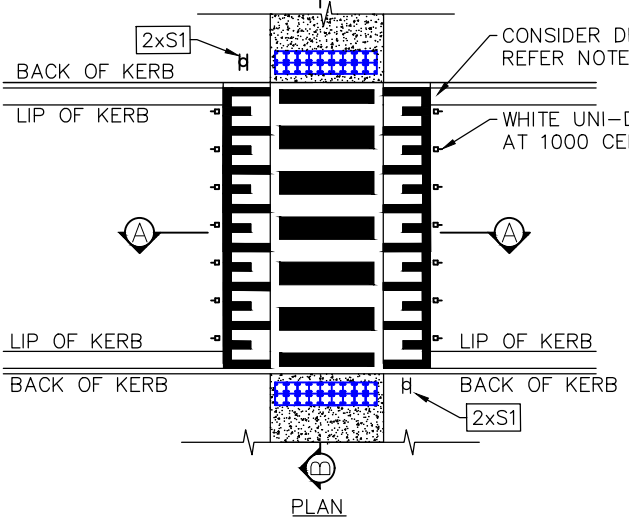
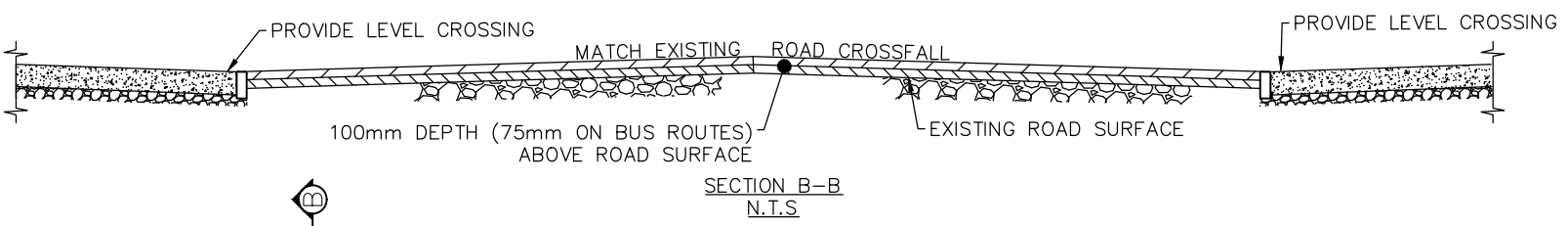
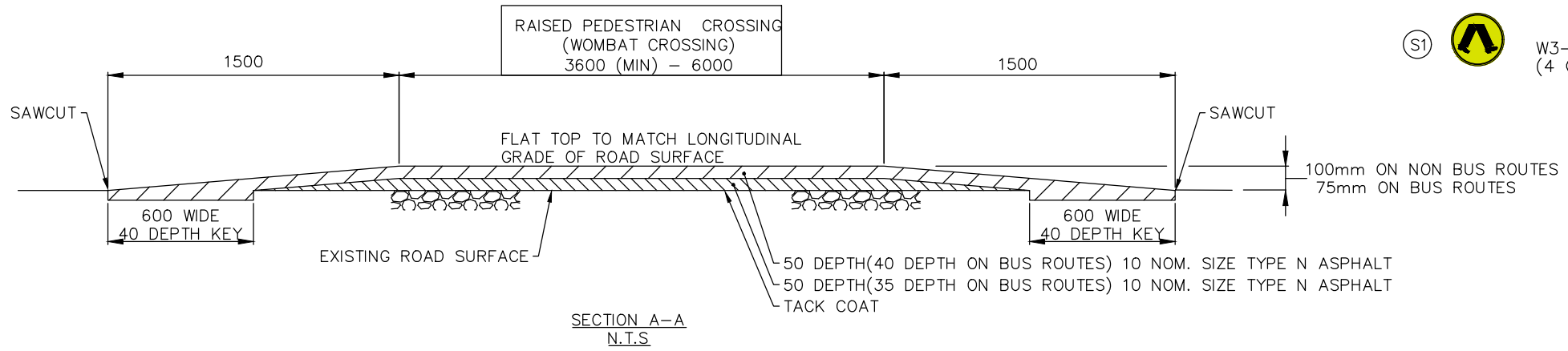


DESIGN	L.SHE
DRAWN	L.SHE
CHECKED	M.HUTCHINSON
DATE	MARCH 2019

PROJECT	STANDARD DRAWING - MCC 508
DETAILS	FLAT TOP SPEED HUMP DETAILS

N.T.S	
SHEET 1 OF 1	PAPER A3
DRAWING No. MCC 508	REV C
FILE NAME MCC 508 - SPEED HUMP GUIDELINES V2.DWG	

S1  W3-1A
(4 OF)



- NOTES:**
1. ALL DESIGN TO BE IN ACCORDANCE WITH 'AUSTRROADS AGTM08 - PART 8 - LATM'
 2. FLAT TOP WIDTH SHOULD BE MIN. 6m FOR BUSES.
 3. ALL TRAFFIC MANAGEMENT DEVICES SHOULD BE SUPPLEMENTED WITH ADEQUATE STREET LIGHTING
 4. ALL LINE MARKING TO BE THERMOPLASTIC OR COLD APPLIED PLASTIC LONG-LIFE TYPE
 5. ALL SIGNS TO BE INSTALLED AS PER MCC 205
 6. ASPHALT LEVELS TO BE CONSTRUCTED WITHIN TOLERANCE OF +10/-5mm.
 7. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE
 8. CROSSOVERS MUST BE MIN. 1m FROM SPEED HUMPS
 9. PEDESTRIAN CROSSING SIGNS SHALL BE 2 NO. FOR EACH DIRECTION FOR TOTAL OF 4 NO. SIGNS.
 10. DRAINAGE MUST BE CONSIDERED AND NO UNDRAINED LOW SPOTS. DRAINAGE PITS ARE PREFERRED AND HEEL SAFE GRATES ARE CONSIDERED.

28/2/2022 12:18:40 PM

ISSUE	APPD	DATE	AMENDMENT
E			
D			
C	---	---	---
B	---	28/02/22	ADDED EDGE STRIP, TACTILES AND NOTES ABOUT DRAINAGE
A	M.H	17/01/21	ADDED FOR COMMENTS

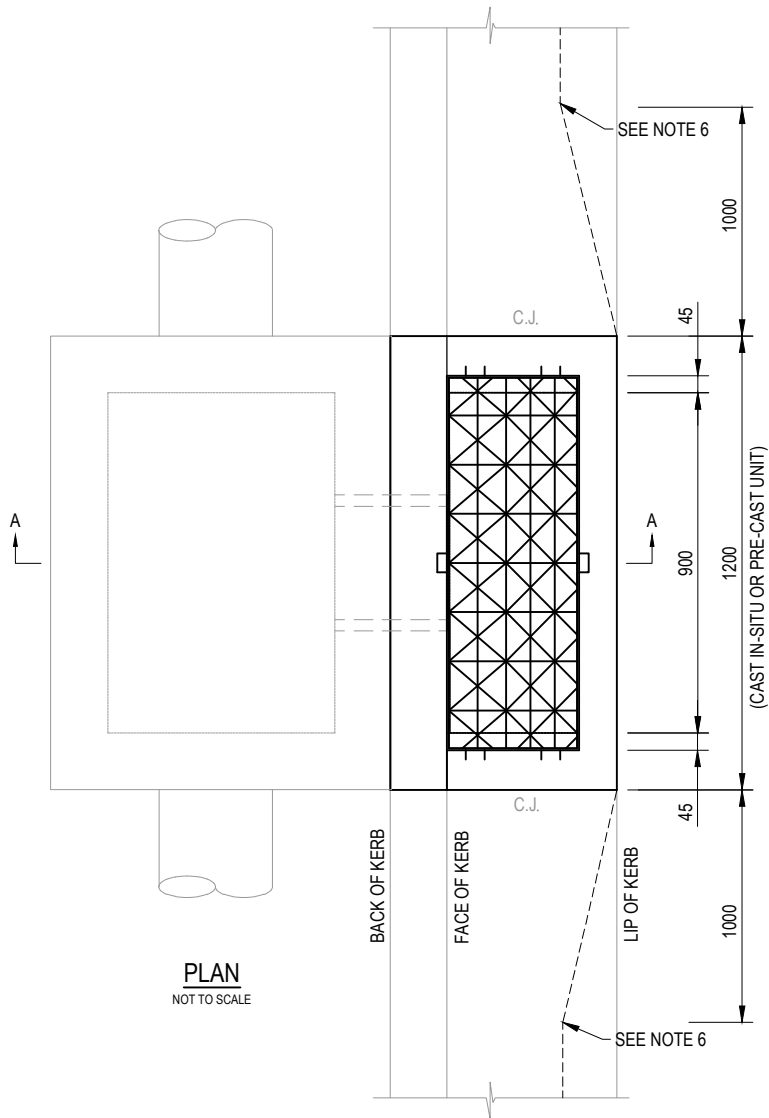
GENERAL NOTES



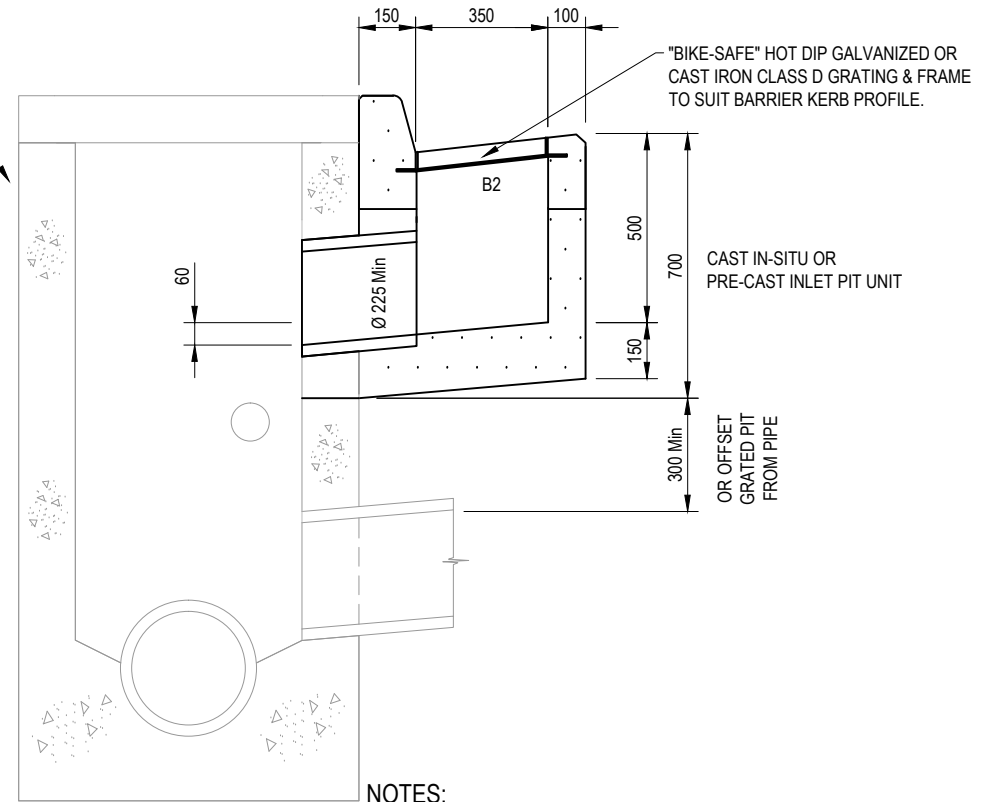
DESIGN	L.SHE
DRAWN	L.SHE
CHECKED	-
DATE	JAN 2022

PROJECT	STANDARD DRAWING - MCC 509
DETAILS	
	RAISED PEDESTRIAN CROSSING DETAILS (WOMBAT CROSSING)

N.T.S	
SHEET	1 OF 1
PAPER	A3
DRAWING No.	MCC 509
REV	B
FILE NAME	MCC 509 - WOMBAT CROSSING GUIDELINES V1.DWG



REFER
EDCM 605,
606, 607 &
608 FOR
JUNCTION
DETAILS.



NOTES:

1. PIPE CENTRE LINE TO BE DIAMETER OF PIPE / 2 + 200mm BEHIND BACK OF KERB.
2. FOR PIPE GREATER THAN 525mm JUNCTION PIT TO BE HAUNCHED.
3. SUBJECT TO COUNCIL APPROVAL PRECAST PITS COMPLYING WITH AS 5100 BRIDGE DESIGN AND VICROADS SPECIFICATION 705 DRAINAGE PITS MAY BE USED.
4. CHANNEL GRATES TO COMPLY WITH AS 3996, BE FITTED WITH AN APPROVED LOCKING DEVICE AND HAVE A CLEAR OPENING OF 900mm X 350mm.
5. 225mm DIAMETER SEWER GRADE PVC PIPE WHEN GAP BETWEEN CATCH PIT AND JUNCTION PIT IS LESS THAN 300mm. 225mm DIAMETER REINFORCED CONCRETE PIPE WHEN GAP IS GREATER THAN 300mm.
6. WHEN PIT IS USED WITH 300mm WIDE KERB TRAY-FLARE, KERB TRAY TO MATCH WIDTH OF PIT
7. SHAPE FLOOR OF PIT TO OUTLET & RENDER FLOOR AND WALLS TO CLASS 2 FINISH.
8. CONCRETE STRENGTH 32 MPa AT 28 DAYS.
9. NOT APPLICABLE TO MELBOURNE WATER CORPORATION DRAINAGE ASSETS. FOR MWC WORKS REFER TO MWC LAND DEVELOPMENT MANUAL

No	Revision	Note: * Indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date
0	FINAL ISSUE		DG	MM	-	16.11.15

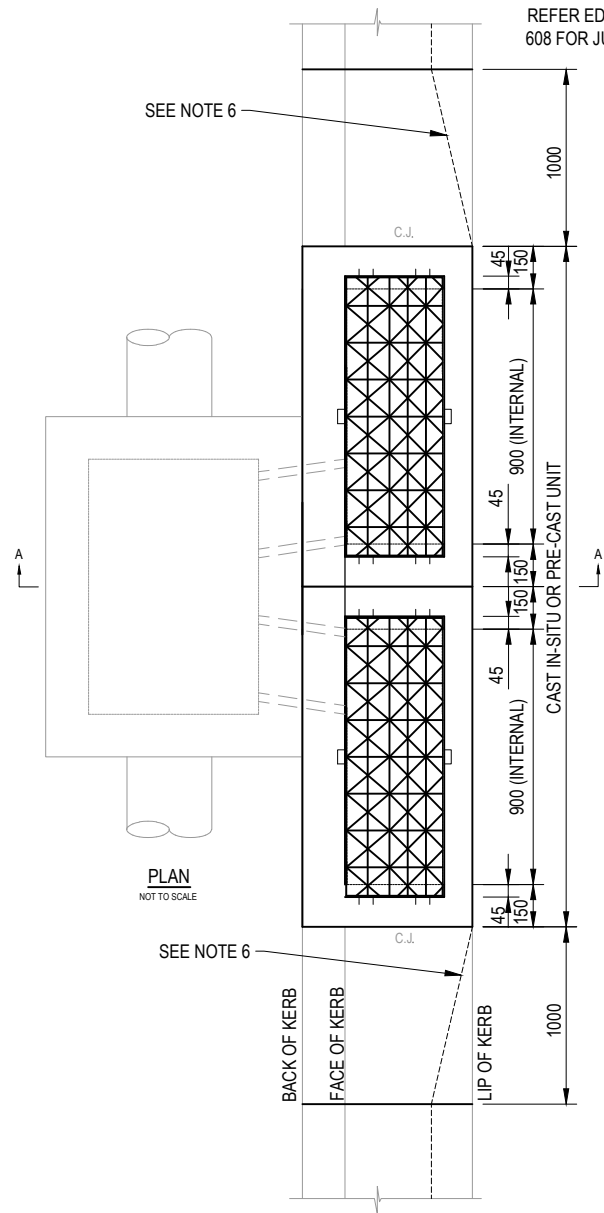
Plot Date: 16 November 2015 - 4:11 PM Plotted by: Kerry Walton

Cad File No: \Infrastructure Planning\EDCM Standard Drawings\EDCM - 601.dwg

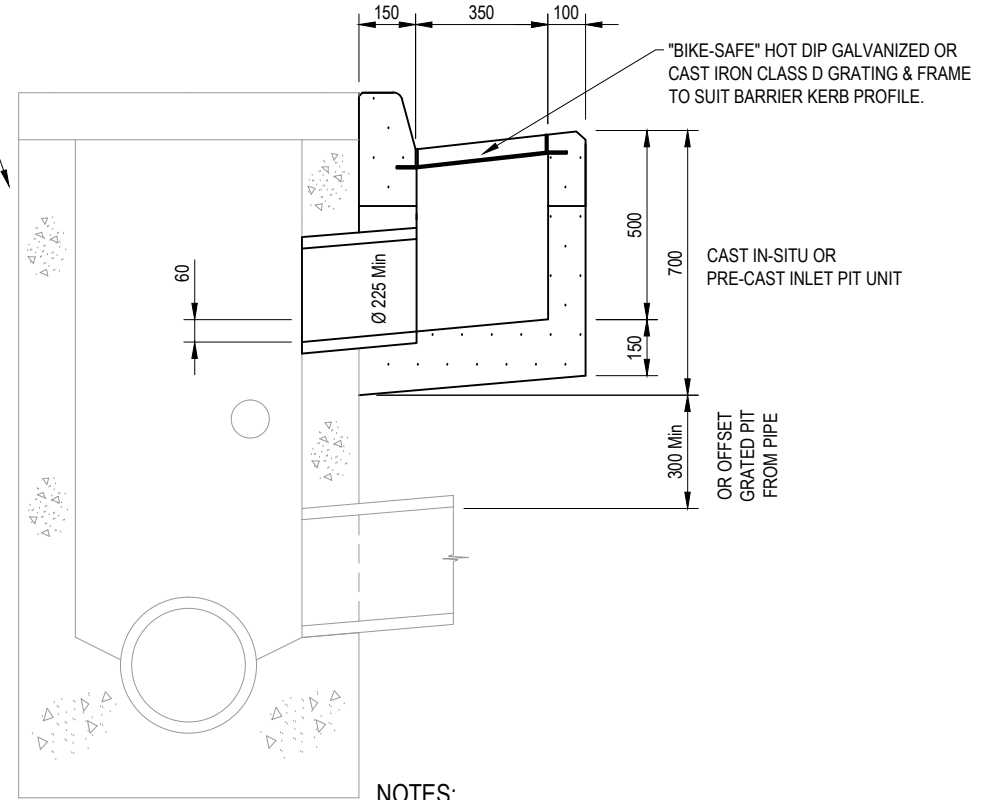


STANDARD DRAWINGS FOR
SUBDIVISIONS IN GROWTH AREAS
SINGLE SIDE ENTRY PIT GRATED
600 B2 KERB □ CHANNEL

Revision | 0
Date | DEC 2015
EDCM 601



PLAN
NOT TO SCALE



SECTION A - A
NOT TO SCALE

NOTES:

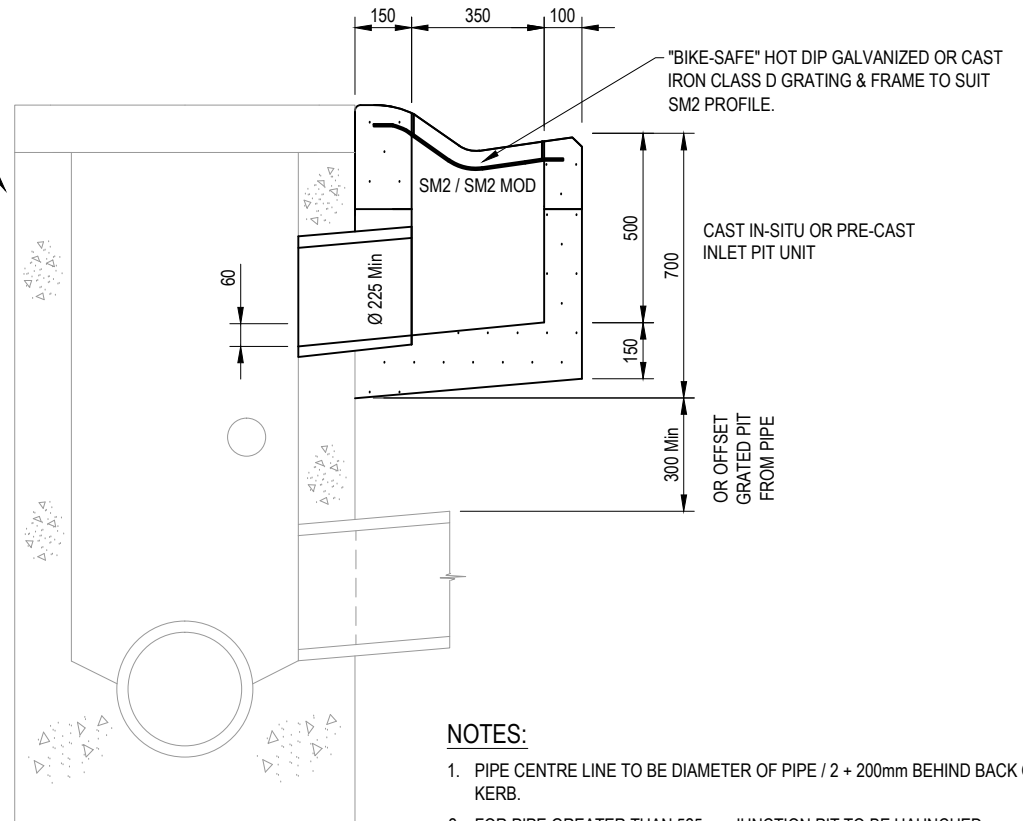
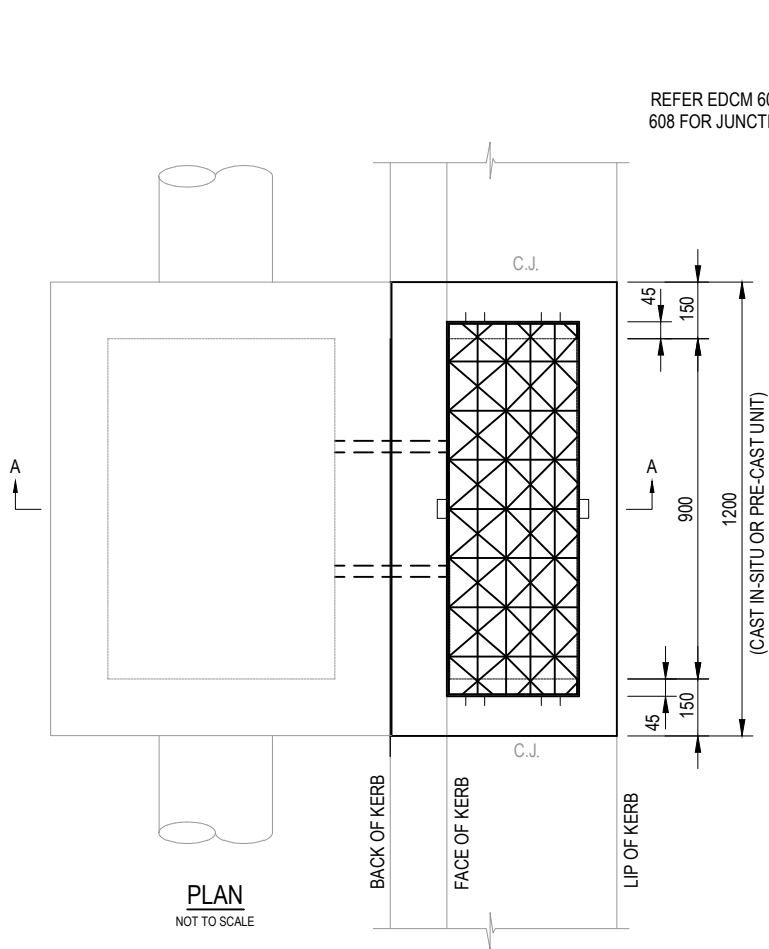
1. PIPE CENTRE LINE TO BE DIAMETER OF PIPE / 2 + 200mm BEHIND BACK OF KERB.
2. FOR PIPE GREATER THAN 525mm JUNCTION PIT TO BE HAUNCHED.
3. SUBJECT TO COUNCIL APPROVAL PRECAST PITS COMPLYING WITH AS 5100 BRIDGE DESIGN AND VICROADS SPECIFICATION 705 DRAINAGE PITS MAY BE USED.
4. CHANNEL GRATES TO COMPLY WITH AS 3996, BE FITTED WITH AN APPROVED LOCKING DEVICE AND HAVE A CLEAR OPENING OF 900mm X 350mm.
5. 225mm DIAMETER SEWER GRADE PVC PIPE WHEN GAP BETWEEN CATCH PIT AND JUNCTION PIT IS LESS THAN 300mm. 225mm DIAMETER REINFORCED CONCRETE PIPE WHEN GAP IS GREATER THAN 300mm.
6. WHEN PIT IS USED WITH 300mm WIDE KERB TRAY - FLARE KERB TRAY TO MATCH WIDTH OF PIT.
7. SHAPE FLOOR OF PIT TO OUTLET & RENDER FLOOR AND WALLS TO CLASS 2 FINISH.
8. CONCRETE STRENGTH 32 MPa AT 28 DAYS.
9. NOT APPLICABLE TO MELBOURNE WATER CORPORATION DRAINAGE ASSETS. FOR MWC WORKS REFER TO MWC LAND DEVELOPMENT MANUAL

0	FINAL ISSUE	DG	MM	-	16.11.15	
No	Revision	Note: * Indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date



STANDARD DRAWINGS FOR
SUBDIVISIONS IN GROWTH AREAS
DOUBLE SIDE ENTRY PIT GRATED
600 B2 KERB □ CHANNEL

Revision | 0
Date | DEC 2015
EDCM 602



NOTES:

1. PIPE CENTRE LINE TO BE DIAMETER OF PIPE / 2 + 200mm BEHIND BACK OF KERB.
2. FOR PIPE GREATER THAN 525mm JUNCTION PIT TO BE HAUNCHED.
3. SUBJECT TO COUNCIL APPROVAL PRECAST PITS COMPLYING WITH AS 5100 BRIDGE DESIGN AND VICROADS SPECIFICATION 705 DRAINAGE PITS MAY BE USED.
4. CHANNEL GRATES TO COMPLY WITH AS 3996, BE FITTED WITH AN APPROVED LOCKING DEVICE AND HAVE A CLEAR OPENING OF 900mm X 350mm.
5. 225mm DIAMETER SEWER GRADE PVC PIPE WHEN GAP BETWEEN CATCH PIT AND JUNCTION PIT IS LESS THAN 300mm. 225mm DIAMETER REINFORCED CONCRETE PIPE WHEN GAP IS GREATER THAN 300mm.
6. SHAPE FLOOR OF PIT TO OUTLET & RENDER FLOOR AND WALLS TO CLASS 2 FINISH.
7. CONCRETE STRENGTH 32 MPa AT 28 DAYS.
8. NOT APPLICABLE TO MELBOURNE WATER CORPORATION DRAINAGE ASSETS. FOR MWC WORKS REFER TO MWC LAND DEVELOPMENT MANUAL

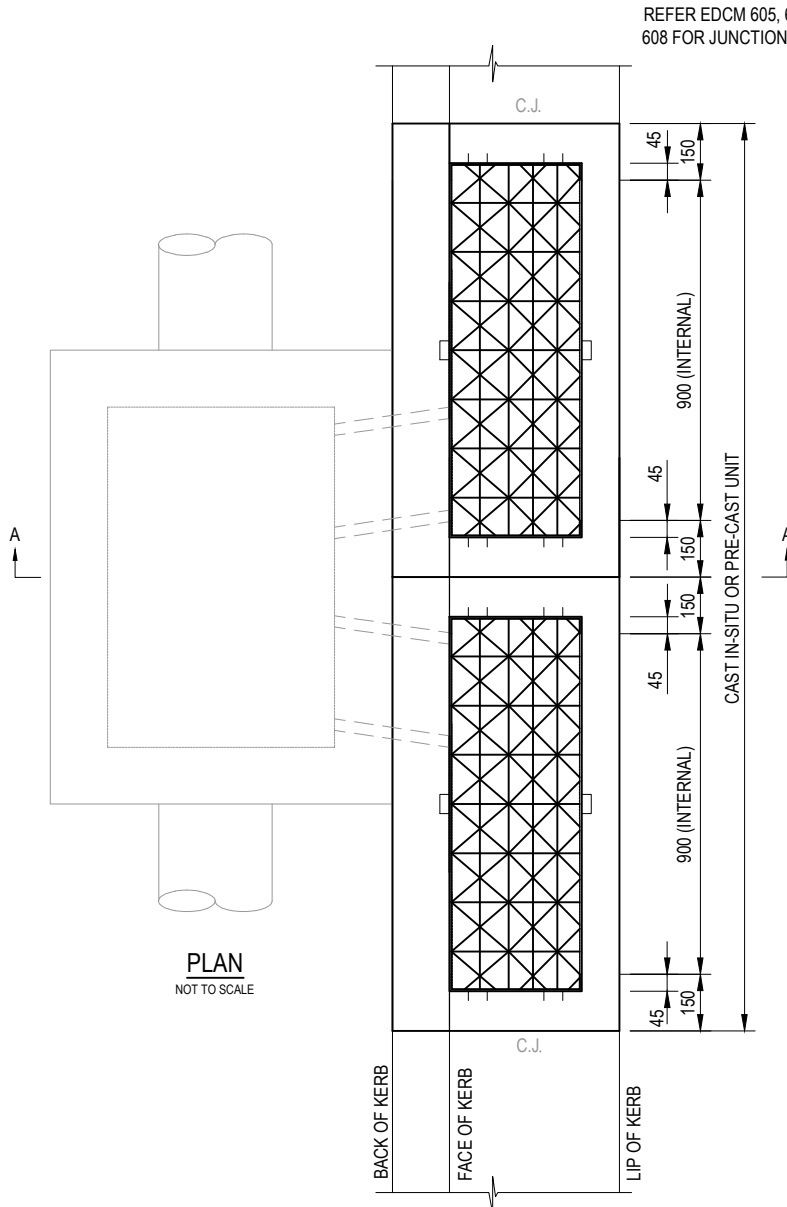
No	Revision	Note: * Indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date
0	FINAL ISSUE		DG	MM	-	16.11.15



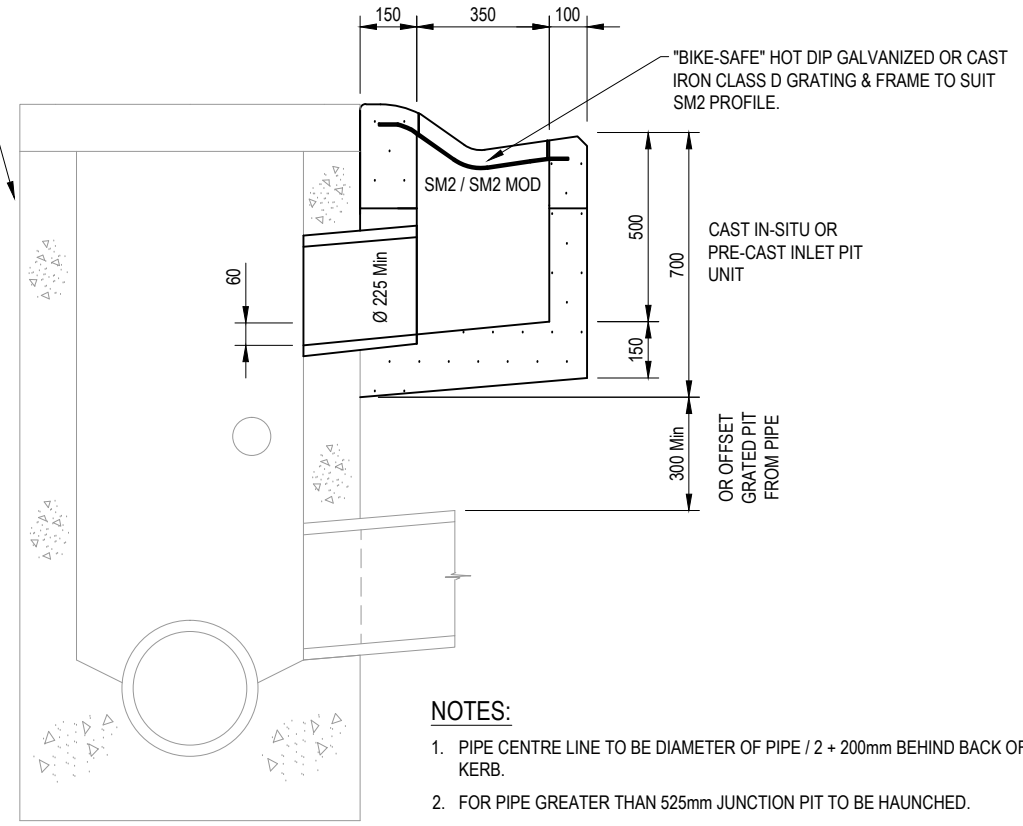
STANDARD DRAWINGS FOR
SUBDIVISIONS IN GROWTH AREAS
SINGLE SIDE ENTRY PIT GRATED
SM2 KERB □ CHANNEL

Revision | 0
Date | DEC 2015
EDCM 603

REFER EDCM 605, 606, 607 & 608 FOR JUNCTION DETAILS.



PLAN
NOT TO SCALE



SECTION A - A
NOT TO SCALE

NOTES:

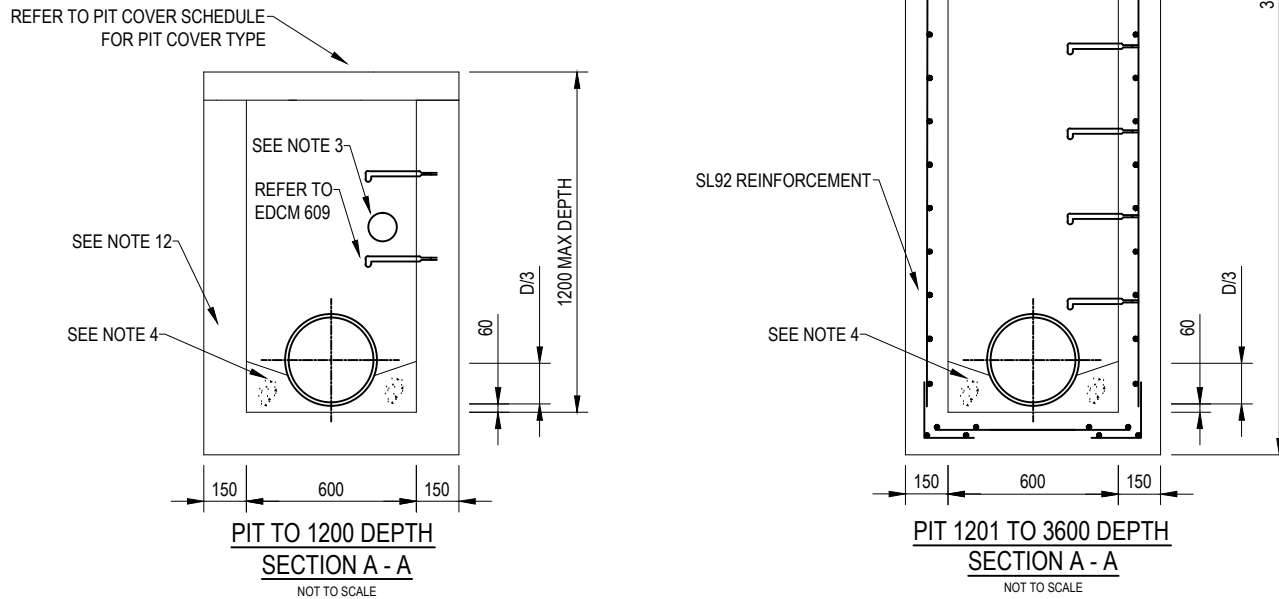
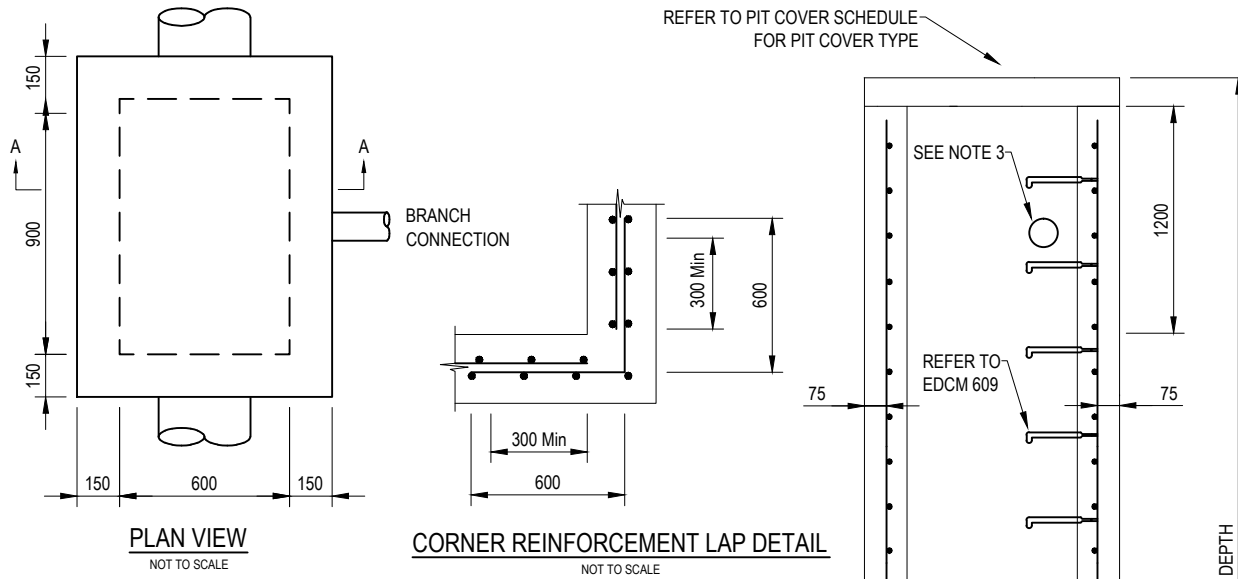
1. PIPE CENTRE LINE TO BE DIAMETER OF PIPE / 2 + 200mm BEHIND BACK OF KERB.
2. FOR PIPE GREATER THAN 525mm JUNCTION PIT TO BE HAUNCHED.
3. SUBJECT TO COUNCIL APPROVAL PRECAST PITS COMPLYING WITH AS 5100 BRIDGE DESIGN AND VICROADS SPECIFICATION 705 DRAINAGE PITS MAY BE USED.
4. CHANNEL GRATES TO COMPLY WITH AS 3996, BE FITTED WITH AN APPROVED LOCKING DEVICE AND HAVE A CLEAR OPENING OF 900mm X 350mm.
5. 225mm DIAMETER SEWER GRADE PVC PIPE WHEN GAP BETWEEN CATCH PIT AND JUNCTION PIT IS LESS THAN 300mm. 225mm DIAMETER REINFORCED CONCRETE PIPE WHEN GAP IS GREATER THAN 300mm.
6. SHAPE FLOOR OF PIT TO OUTLET & RENDER FLOOR AND WALLS TO CLASS 2 FINISH.
7. CONCRETE STRENGTH 32 MPa AT 28 DAYS.
8. NOT APPLICABLE TO MELBOURNE WATER CORPORATION DRAINAGE ASSETS. FOR MWC WORKS REFER TO MWC LAND DEVELOPMENT MANUAL

0	FINAL ISSUE	DG	MM	-	16.11.15	
No	Revision	Note: * Indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date



STANDARD DRAWINGS FOR
SUBDIVISIONS IN GROWTH AREAS
GRATED CHANNEL PIT
SM2 KERB - DOUBLE

Revision | 0
Date | DEC 2015
EDCM 604



NOTES:

- PIPE CENTRE LINE TO BE DIAMETER OF PIPE / 2 + 200mm BEHIND BACK OF KERB.
- PIT TO BE HAUNCHED WHERE THE PIPE DIAMETER PLUS 75 IS GREATER THAN THE WIDTH OF THE PIT.
- INSTALL 100mm DIAMETER PENETRATION FOR SUBSURFACE DRAINAGE.
- FLOOR OF PIT TO BE SHAPED ON COMPLETION OF PIT WITH NO SLUMP CONCRETE.
- SUBJECT TO COUNCIL APPROVAL PRECAST PITS COMPLYING WITH AS 5100 BRIDGE DESIGN AND VICROADS SPECIFICATION 705 DRAINAGE PITS MAY BE USED.
- PITS TO BE FITTED WITH STEP IRONS.
- PIT COVER LEVEL TO MATCH FINISHED SURFACE LEVEL.
- PIT COVERS TO BE IMPRINTED WITH THE CLASS OF THE COVER AND WEIGHT.
- FIBRE GLASS PIT COVERS TO BE FITTED WITH AN APPROVED LOCKING DEVICE AND INSTALLED TO OPEN TO THE VERGE SIDE OF THE ROAD.
- FIBRE GLASS PIT COVERS TO BE ATTACHED WITH 4 N^o - 10mm DIA. 75mm LONG MASONRY ANCHORS OR AS PER MANUFACTURERS DETAILS.
- FIBRE GLASS PIT COVERS TO HAVE A CLEAR OPENING OF 900mm X 600mm.
- PITS GREATER THAN 1200 DEPTH TO BE REINFORCED
- CONCRETE PIT COVERS TO BE INSTALLED ON A 5mm BED OF MORTAR.
- FABRIC IN SHAFT TO HAVE MAIN BARS HORIZONTAL.
- CLEAR COVER TO REINFORCEMENT NOT LESS THAN 50mm.
- RETURN REINFORCEMENT BARS TO BE FABRIC OR EQUIVALENT BARS.
- CONCRETE STRENGTH 32 MPa AT 28 DAYS.
- NOT APPLICABLE TO MELBOURNE WATER CORPORATION DRAINAGE ASSETS. FOR MWC WORKS REFER TO MWC LAND DEVELOPMENT MANUAL.

MUNICIPALITIES	CARDINIA CASEY MELTON MITCHELL WHITTLESEA	HUME	WYNDHAM
LOCATION OF PIT			
RESERVES	CLASS B - FIBRE GLASS	CLASS B - CONCRETE	CLASS B - CONCRETE
EASEMENTS	CLASS B - FIBRE GLASS	CLASS B - CONCRETE OR FIBRE GLASS	CLASS B - CONCRETE
NATURESTRIPS	CLASS B - FIBRE GLASS	CLASS B - CONCRETE OR FIBRE GLASS	CLASS B - CONCRETE
WITHIN 0.75M OF A VEHICLE CROSSING	CLASS D - CAST IRON	CLASS D - CAST IRON	CLASS D - CAST IRON
WITHIN A VEHICLE CROSSING	CLASS D - CAST IRON	CLASS D - CAST IRON	CLASS D - CAST IRON
ROAD PAVEMENT	CLASS D - CAST IRON	CLASS D - CAST IRON	CLASS D - CAST IRON

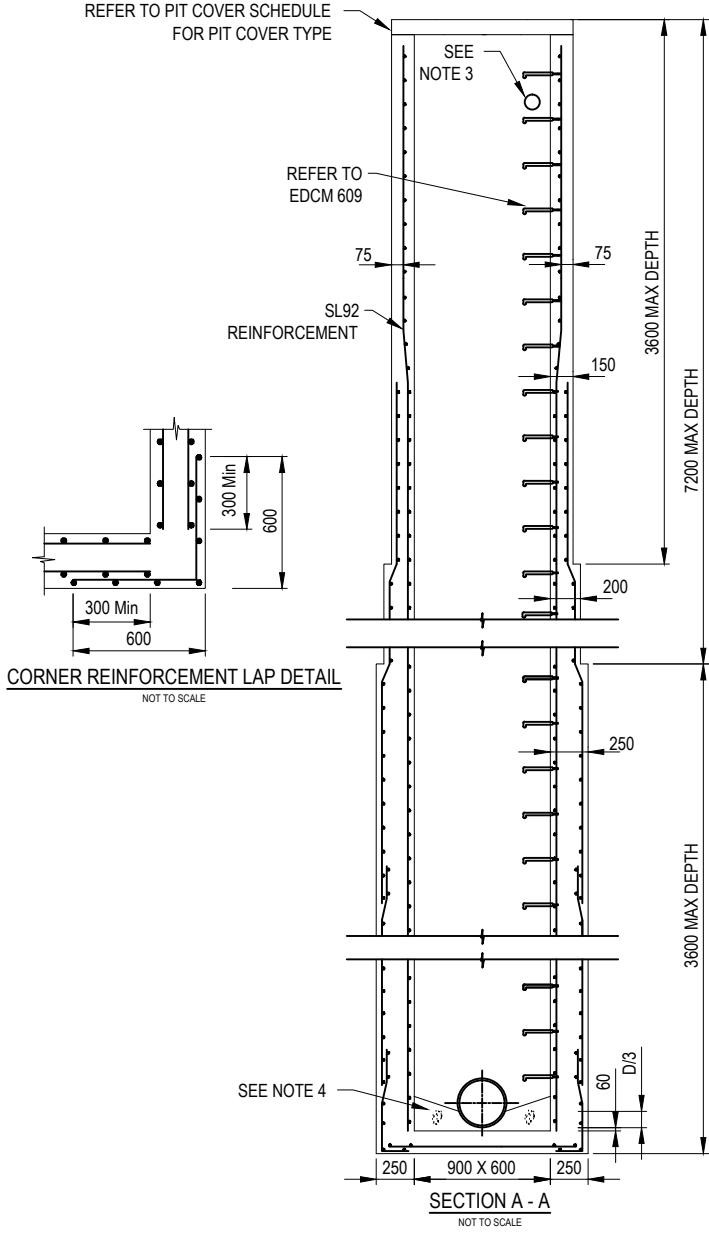
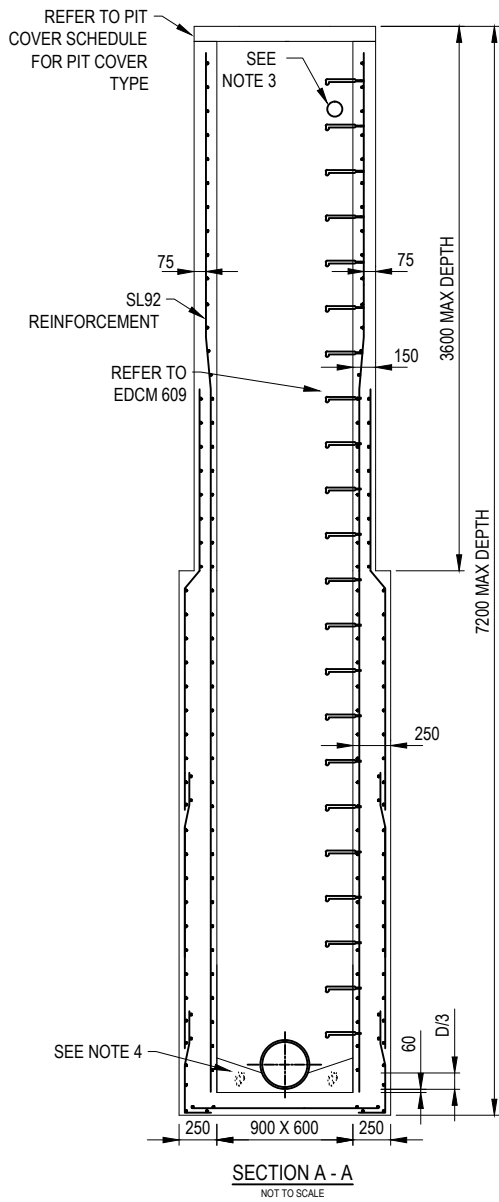
PIT COVER SCHEDULE

No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date
0	FINAL ISSUE		DG	MM	-	16.11.15



STANDARD DRAWINGS FOR
SUBDIVISIONS IN GROWTH AREAS
□ 00mm □ 600mm JUNCTION PIT
UP TO 3600mm DEPTH

Revision | 0
Date | DEC 2015
EDCM 605



NOTES:

1. PIPE CENTRE LINE TO BE DIAMETER OF PIPE / 2 + 200mm BEHIND BACK OF KERB.
2. PIT TO BE HAUNCHED WHERE THE PIPE DIAMETER PLUS 75 IS GREATER THAN THE WIDTH OF THE PIT.
3. INSTALL 100mm DIAMETER PENETRATION FOR SUBSURFACE DRAINAGE.
4. FLOOR OF PIT TO BE SHAPED ON COMPLETION OF PIT WITH NO SLUMP CONCRETE.
5. SUBJECT TO COUNCIL APPROVAL PRECAST PITS COMPLYING WITH AS 5100 BRIDGE DESIGN AND VICROADS SPECIFICATION 705 DRAINAGE PITS MAY BE USED.
6. PITS TO BE FITTED WITH STEP IRONS.
7. PIT COVER LEVEL TO MATCH FINISHED SURFACE LEVEL.
8. PIT COVERS TO BE IMPRINTED WITH THE CLASS OF THE COVER AND WEIGHT.
9. FIBRE GLASS PIT COVERS TO BE FITTED WITH AN APPROVED LOCKING DEVICE AND INSTALLED TO OPEN TO THE VERGE SIDE OF THE ROAD.
10. FIBRE GLASS PIT COVERS TO BE ATTACHED WITH 4 N^o - 10mm DIA. 75mm LONG MASONRY ANCHORS OR AS PER MANUFACTURERS DETAILS.
11. FIBRE GLASS PIT COVERS TO HAVE A CLEAR OPENING OF 900mm X 600mm.
12. PITS GREATER THAN 1200 DEPTH TO BE REINFORCED
13. CONCRETE PIT COVERS TO BE INSTALLED ON A 5mm BED OF MORTAR.
14. FABRIC IN SHAFT TO HAVE MAIN BARS HORIZONTAL.
15. CLEAR COVER TO REINFORCEMENT NOT LESS THAN 50mm.
16. RETURN REINFORCEMENT BARS TO BE FABRIC OR EQUIVALENT BARS.
17. CONCRETE STRENGTH 32 MPa AT 28 DAYS.
18. NOT APPLICABLE TO MELBOURNE WATER CORPORATION DRAINAGE ASSETS. FOR MWC WORKS REFER TO MWC LAND DEVELOPMENT MANUAL.

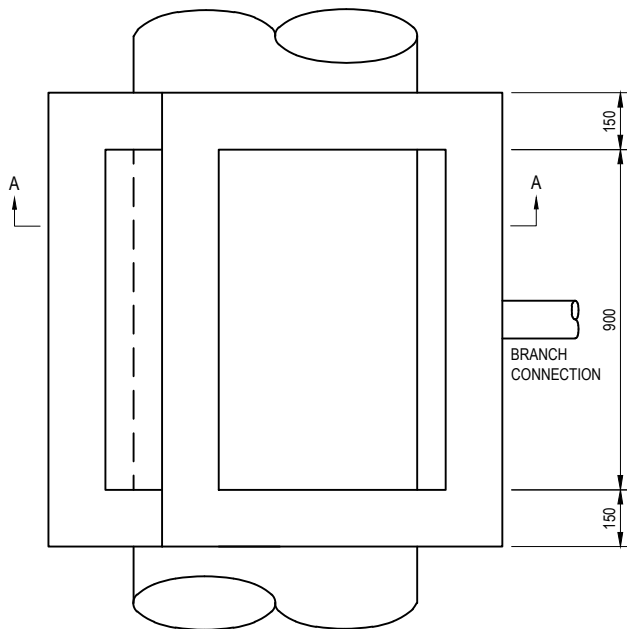
MUNICIPALITIES	CARDINIA CASEY MELTON MITCHELL WHITTLESEA	HUME	WYNDHAM
LOCATION OF PIT			
RESERVES	CLASS B - FIBRE GLASS	CLASS B - CONCRETE	CLASS B - CONCRETE
EASEMENTS	CLASS B - FIBRE GLASS	CLASS B - CONCRETE OR FIBRE GLASS	CLASS B - CONCRETE
NATURESTRIPS	CLASS B - FIBRE GLASS	CLASS B - CONCRETE OR FIBRE GLASS	CLASS B - CONCRETE
WITHIN 0.75m OF A VEHICLE CROSSING	CLASS D - CAST IRON	CLASS D - CAST IRON	CLASS D - CAST IRON
WITHIN A VEHICLE CROSSING	CLASS D - CAST IRON	CLASS D - CAST IRON	CLASS D - CAST IRON
ROAD PAVEMENT	CLASS D - CAST IRON	CLASS D - CAST IRON	CLASS D - CAST IRON

PIT COVER SCHEDULE

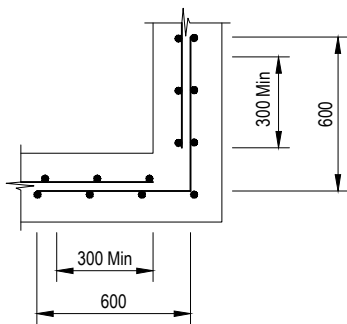
0	FINAL ISSUE	DG	MM	-	16.11.15	
No	Revision	Note: * Indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date



STANDARD DRAWINGS FOR
SUBDIVISIONS IN GROWTH AREAS
□00mm □ 600mm JUNCTION PITS
3601mm TO 10□00mm DEPTH
Revision 0
Date DEC 2015
EDCM 606



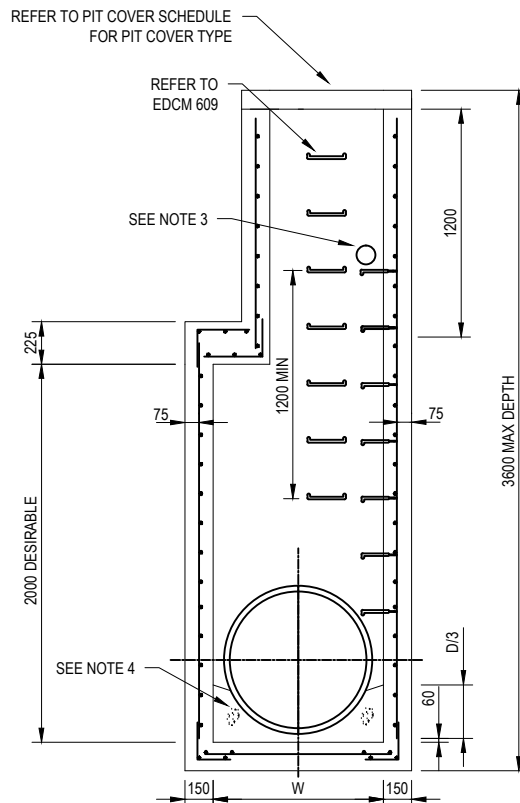
PLAN VIEW
NOT TO SCALE



CORNER REINFORCEMENT LAP DETAIL
NOT TO SCALE

PIT WIDTH "W"	REINFORCEMENT
UP TO 1200	SL92
1201 - 1800	RL918
1801 - 2400	RL1218

REINFORCEMENT DETAILS



SECTION A - A
NOT TO SCALE

NOTES:

- PIPE CENTRE LINE TO BE DIAMETER OF PIPE / 2 + 200mm BEHIND BACK OF KERB.
- PIT TO BE HAUNCHED WHERE THE PIPE DIAMETER PLUS 75 IS GREATER THAN THE WIDTH OF THE PIT.
- INSTALL 100mm DIAMETER PENETRATION FOR SUBSURFACE DRAINAGE.
- FLOOR OF PIT TO BE SHAPED ON COMPLETION OF PIT WITH NO SLUMP CONCRETE.
- SUBJECT TO COUNCIL APPROVAL PRECAST PITS COMPLYING WITH AS 5100 BRIDGE DESIGN AND VICROADS SPECIFICATION 705 DRAINAGE PITS MAY BE USED.
- PITS TO BE FITTED WITH STEP IRONS.
- PIT COVER LEVEL TO MATCH FINISHED SURFACE LEVEL.
- PIT COVERS TO BE IMPRINTED WITH THE CLASS OF THE COVER AND WEIGHT.
- FIBRE GLASS PIT COVERS TO BE FITTED WITH AN APPROVED LOCKING DEVICE AND INSTALLED TO OPEN TO THE VERGE SIDE OF THE ROAD.
- FIBRE GLASS PIT COVERS TO BE ATTACHED WITH 4 N^o - 10mm DIA. 75mm LONG MASONRY ANCHORS OR AS PER MANUFACTURERS DETAILS.
- FIBRE GLASS PIT COVERS TO HAVE A CLEAR OPENING OF 900mm X 600mm.
- PITS GREATER THAN 1200 DEPTH TO BE REINFORCED
- CONCRETE PIT COVERS TO BE INSTALLED ON A 5mm BED OF MORTAR.
- FABRIC IN SHAFT TO HAVE MAIN BARS HORIZONTAL.
- CLEAR COVER TO REINFORCEMENT NOT LESS THAN 50mm.
- RETURN REINFORCEMENT BARS TO BE FABRIC OR EQUIVALENT BARS.
- CONCRETE STRENGTH 32 MPa AT 28 DAYS.
- NOT APPLICABLE TO MELBOURNE WATER CORPORATION DRAINAGE ASSETS. FOR MWC WORKS REFER TO MWC LAND DEVELOPMENT MANUAL.

MUNICIPALITIES	CARDINIA CASEY MELTON MITCHELL WHITTLESEA	HUME	WYNDHAM
LOCATION OF PIT			
RESERVES	CLASS B - FIBRE GLASS	CLASS B - CONCRETE	CLASS B - CONCRETE
EASEMENTS	CLASS B - FIBRE GLASS	CLASS B - CONCRETE OR FIBRE GLASS	CLASS B - CONCRETE
NATURESTRIPS	CLASS B - FIBRE GLASS	CLASS B - CONCRETE OR FIBRE GLASS	CLASS B - CONCRETE
WITHIN 0.75m OF A VEHICLE CROSSING	CLASS D - CAST IRON	CLASS D - CAST IRON	CLASS D - CAST IRON
WITHIN A VEHICLE CROSSING	CLASS D - CAST IRON	CLASS D - CAST IRON	CLASS D - CAST IRON
NATURESTRIPS	CLASS D - CAST IRON	CLASS D - CAST IRON	CLASS D - CAST IRON

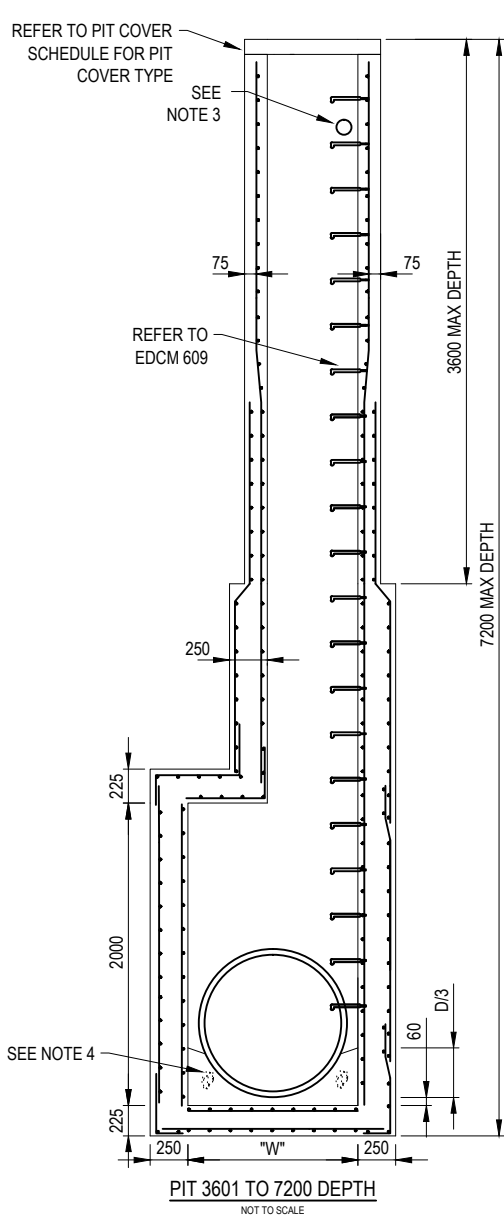
PIT COVER SCHEDULE

No	Revision	Note: * Indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date
0	FINAL ISSUE		DG	MM	-	16.11.15



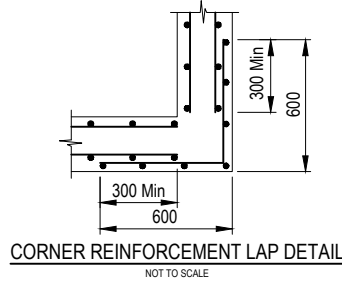
STANDARD DRAWINGS FOR
SUBDIVISIONS IN GROWTH AREAS
HAUNCHED JUNCTION PIT
UP TO 3600mm DEPTH

Revision | 0
Date | DEC 2015
EDCM 607



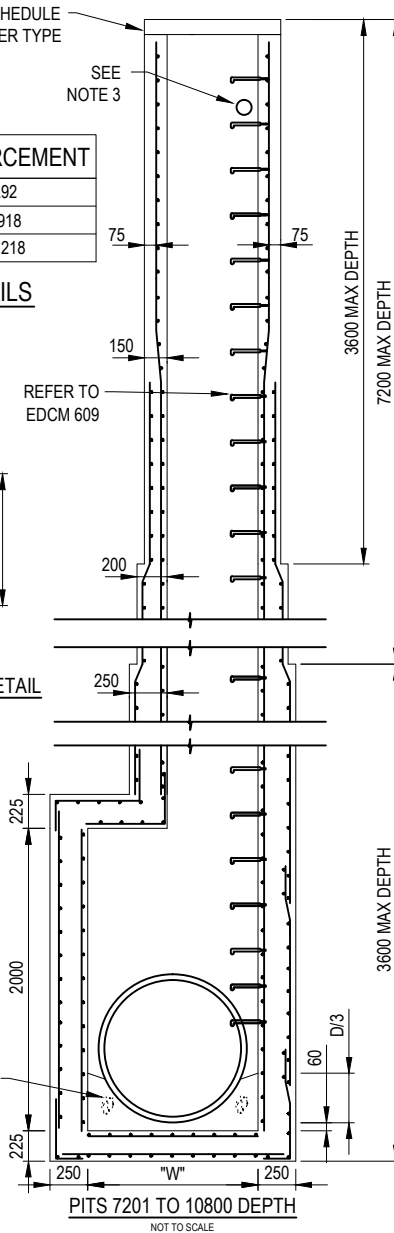
PIT WIDTH "W"	REINFORCEMENT
UP TO 1200	SL92
1201 - 1800	RL918
1801 - 2400	RL1218

REINFORCEMENT DETAILS



CORNER REINFORCEMENT LAP DETAIL

NOT TO SCALE



NOTES:

- PIPE CENTRE LINE TO BE DIAMETER OF PIPE / 2 + 200mm BEHIND BACK OF KERB.
- PIT TO BE HAUNCHED WHERE THE PIPE DIAMETER PLUS 75 IS GREATER THAN THE WIDTH OF THE PIT.
- INSTALL 100mm DIAMETER PENETRATION FOR SUBSURFACE DRAINAGE.
- FLOOR OF PIT TO BE SHAPED ON COMPLETION OF PIT WITH NO SLUMP CONCRETE.
- SUBJECT TO COUNCIL APPROVAL PRECAST PITS COMPLYING WITH AS 5100 BRIDGE DESIGN AND VICROADS SPECIFICATION 705 DRAINAGE PITS MAY BE USED.
- PITS TO BE FITTED WITH STEP IRONS.
- PIT COVER LEVEL TO MATCH FINISHED SURFACE LEVEL.
- PIT COVERS TO BE IMPRINTED WITH THE CLASS OF THE COVER AND WEIGHT.
- FIBRE GLASS PIT COVERS TO BE FITTED WITH AN APPROVED LOCKING DEVICE AND INSTALLED TO OPEN TO THE VERGE SIDE OF THE ROAD.
- FIBRE GLASS PIT COVERS TO BE ATTACHED WITH 4 N° - 10mm DIA. 75mm LONG MASONRY ANCHORS OR AS PER MANUFACTURERS DETAILS.
- FIBRE GLASS PIT COVERS TO HAVE A CLEAR OPENING OF 900mm X 600mm.
- PITS GREATER THAN 1200 DEPTH TO BE REINFORCED
- CONCRETE PIT COVERS TO BE INSTALLED ON A 5mm BED OF MORTAR.
- FABRIC IN SHAFT TO HAVE MAIN BARS HORIZONTAL.
- CLEAR COVER TO REINFORCEMENT NOT LESS THAN 50mm.
- RETURN REINFORCEMENT BARS TO BE FABRIC OR EQUIVALENT BARS.
- CONCRETE STRENGTH 32 MPa AT 28 DAYS.
- NOT APPLICABLE TO MELBOURNE WATER CORPORATION DRAINAGE ASSETS. FOR MWC WORKS REFER TO MWC LAND DEVELOPMENT MANUAL.

MUNICIPALITIES	CARDINIA CASEY MELTON MITCHELL WHITTLESEA	HUME	WYNDHAM
LOCATION OF PIT			
RESERVES	CLASS B - FIBRE GLASS	CLASS B - CONCRETE	CLASS B - CONCRETE
EASEMENTS	CLASS B - FIBRE GLASS	CLASS B - CONCRETE OR FIBRE GLASS	CLASS B - CONCRETE
NATURESTRIPS	CLASS B - FIBRE GLASS	CLASS B - CONCRETE OR FIBRE GLASS	CLASS B - CONCRETE
WITHIN 0.75m OF A VEHICLE CROSSING	CLASS D - CAST IRON	CLASS D - CAST IRON	CLASS D - CAST IRON
WITHIN A VEHICLE CROSSING	CLASS D - CAST IRON	CLASS D - CAST IRON	CLASS D - CAST IRON
ROAD PAVEMENT	CLASS D - CAST IRON	CLASS D - CAST IRON	CLASS D - CAST IRON

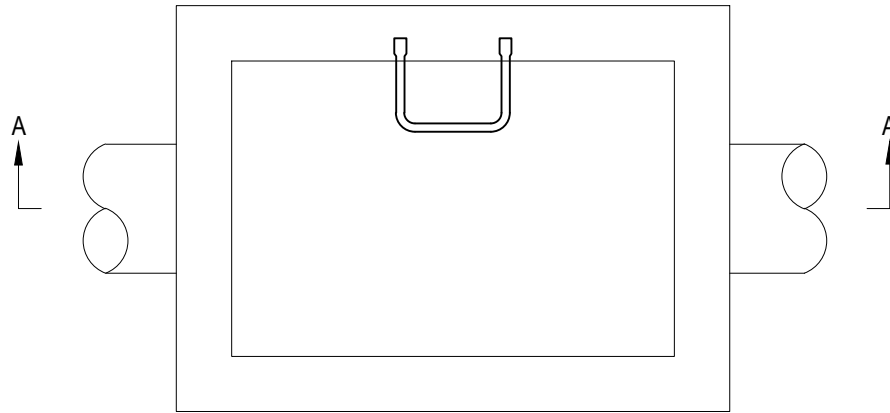
PIT COVER SCHEDULE

No	Revision	Note: * Indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date
0	FINAL ISSUE		DG	MM	-	16.11.15

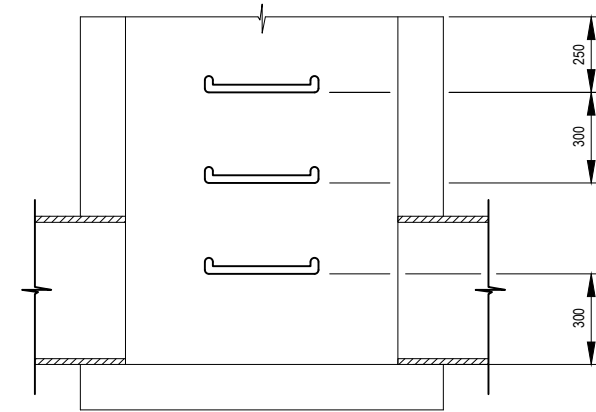


STANDARD DRAWINGS FOR
SUBDIVISIONS IN GROWTH AREAS
HAUNCHED JUNCTION PITS
3601mm TO 1000mm DEPTH

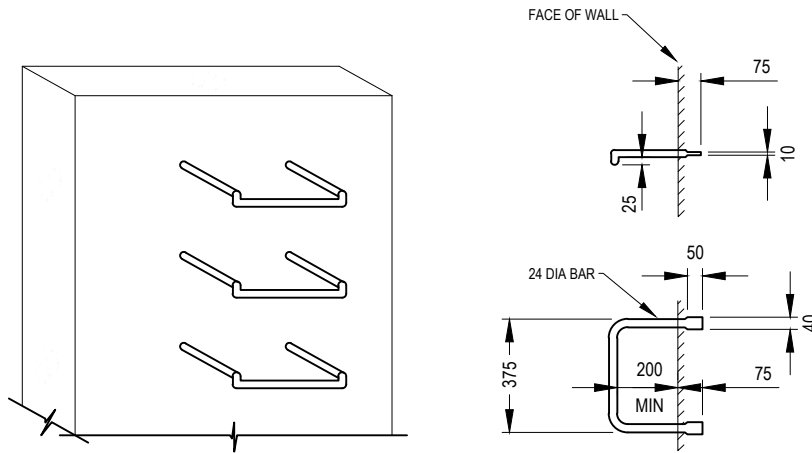
Revision | 0
Date | DEC 2015
EDCM 60



PLAN
NOT TO SCALE



SECTION A - A
NOT TO SCALE



STEP IRON DETAILS
NOT TO SCALE

NOTES:

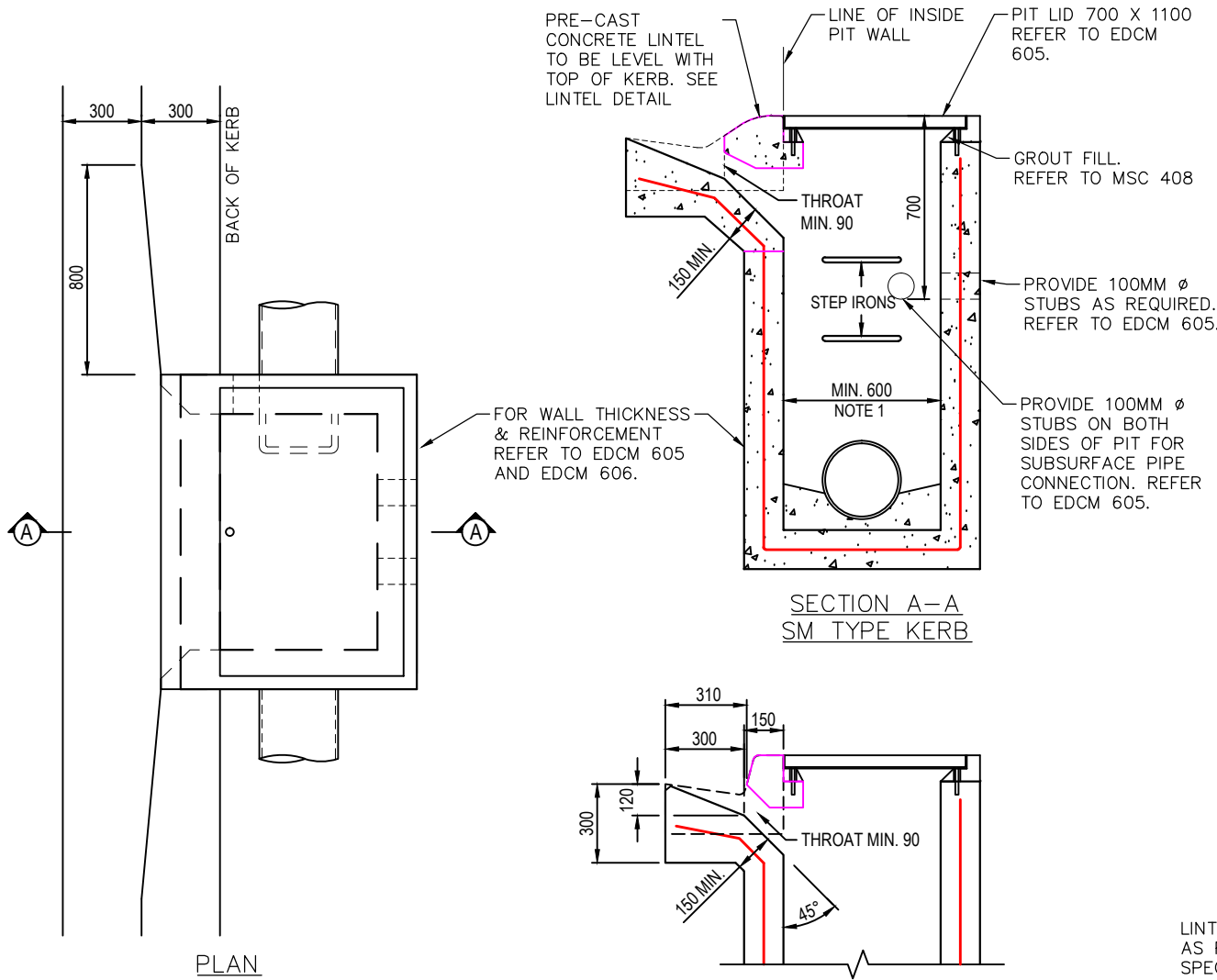
1. PITS DEEPER THAN 1000 TO BE FITTED WITH STEP IRONS.
2. STEP IRONS SHALL BE LOCATED DIRECTLY BELOW THE OPENING IN THE COVER AND DESIRABLY ON A WALL WITHOUT PIPE OPENINGS.
3. WHERE STEP IRON LADDER CHANGES FROM ONE WALL TO THE ADJACENT WALL, STEP IRON LADDERS TO OVERLAP BY 1200mm MINIMUM.
4. STEEL FOR STEP-IRONS SHALL BE STRUCTURAL GRADE 250 TO AS3679 PART 1.
5. STEP IRONS SHALL HAVE SHARP EDGES ROUNDED AND HOT DIP GALVANISED AFTER FABRICATION TO AS/NZS 4680.
6. PROPRIETARY POLYPROPYLENE STEP IRONS (OR APPROVED ALTERNATIVE) MAY BE USED. THESE SHALL BE INSTALLED ACCORDING TO THE MANUFACTURERS INSTRUCTIONS.
7. FOR PRECAST PITS, STEP IRONS SHALL BE LOAD TESTED TO AS4198/1994.
8. FOR REINFORCEMENT DETAILS REFER TO EDCM 605-608.

0	FINAL ISSUE	DG	MM	-	16.11.15	
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date



STANDARD DRAWINGS FOR
SUBDIVISIONS IN GROWTH AREAS
STEP IRONS

Revision | 0
Date | DEC 2015
EDCM 60 □



- NOTES**
1. MINIMUM INTERNAL PIT DIMENSION = EXTERNAL PIPE DIAMETER PLUS 150MM. FOR PIPE DIAMETER GREATER THAN 600MM, CORBEL PIT TO A MINIMUM OF 900MM.
 2. PRECAST UNITS MAY BE CONSTRUCTED TO THE MANUFACTURERS DETAILS. SEE EDCM 605 AND 606
 3. PIT LID TO BE LIGHT WEIGHT TRAFFICABLE OR APPROVED EQUIVALENT. REFER TO EDCM605.
 4. PITS DEEPER THAN 1000MM SHALL BE FITTED WITH HIGH DENSITY PLASTIC STEP 'IRONS'. REFER TO EDCM609 .
 5. CONCRETE STRENGTH TO BE 32MPa.
 6. WHERE NO SUBSURFACE PIPES EXIST, PUT SEAL STUBS.

LINTEL REINFORCING BARS AS PER MANUFACTURERS SPECIFICATIONS.

LINTEL DETAIL
SM KERB

17/1/2017 1:57:16 PM

ISSUE	APP'D	DATE	AMENDMENT
E			
D			
C	M.H.	12/16	REVIEWED AND REVISED DRAWING NO.
B	M.H.	09/07	MODIFIED TO SUIT SEMI MOUNTABLE AND BARRIER KERB
A	J.V.	06/07	REVIEWED AND UPDATED 2000 STANDARD DRAWINGS

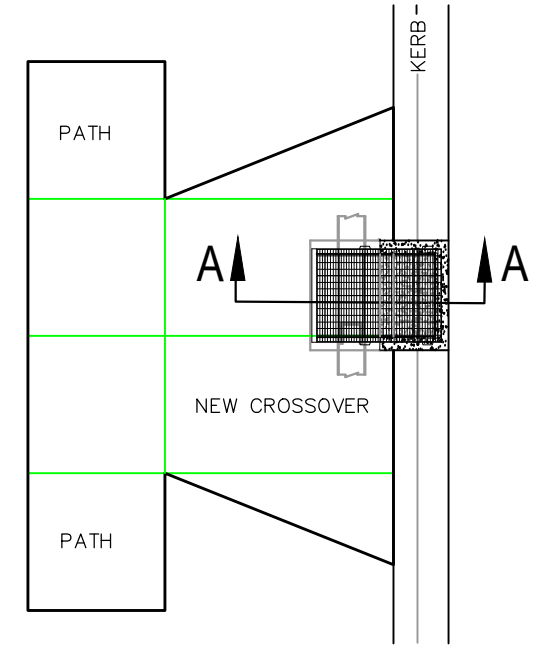
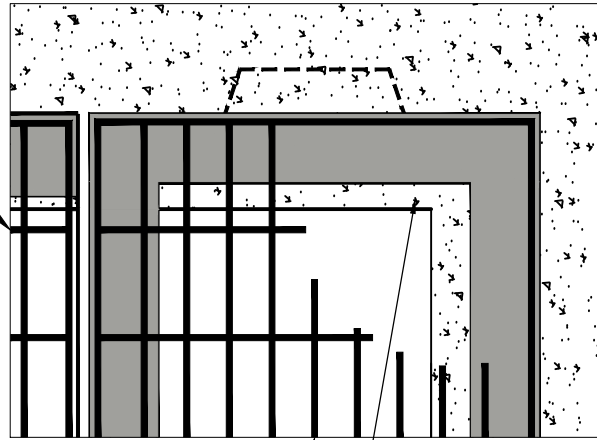
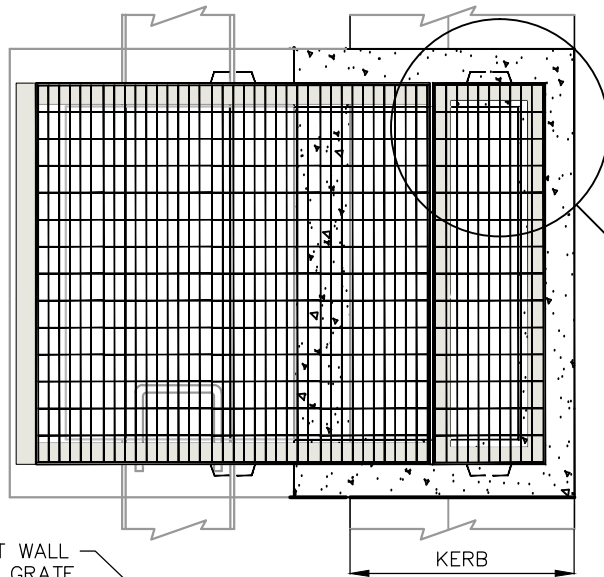
GENERAL NOTES



DESIGN	L.SHE
DRAWN	L.SHE
CHECKED	M.HUTCHINSON
DATE	APRIL 2016

PROJECT	STANDARD DRAWING - MCC 610
DETAILS	SIDE ENTRY PIT

N.T.S.	
SHEET 1 OF 1	PAPER A4
DRAWING No.	REV C
FILE NAME MCC 610 - SIDE ENTRY PIT.DWG	

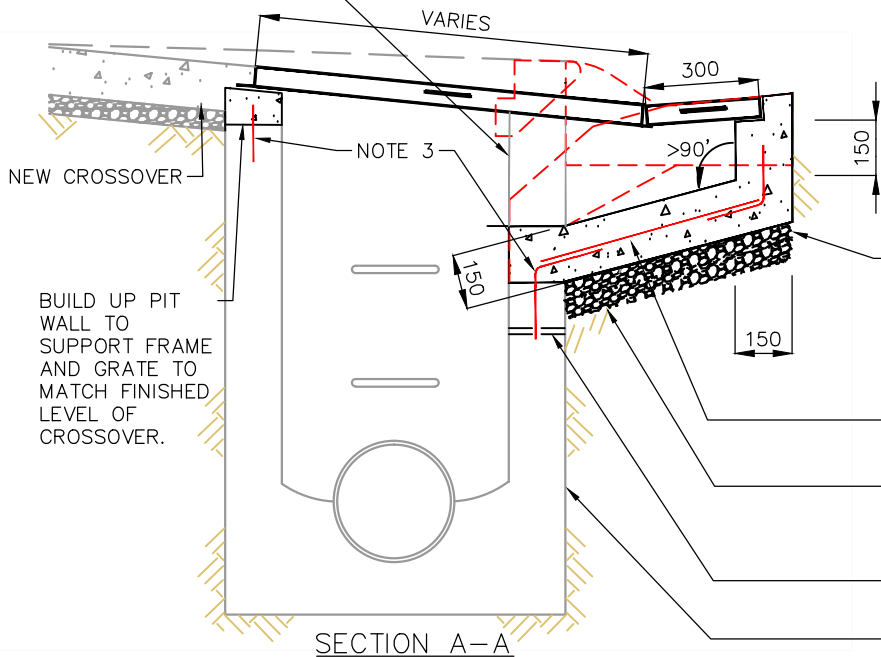


TRIM EX. PIT WALL TO SUIT PIT GRATE

KERB

GRATE & FRAME TO BE BICYCLE SAFE. REFER TO AUSTRALIAN STANDARD AS 3996. REFER TO NOTE 6.

SET FRAME INTO REBATE OF NEW CONCRETE PIT WALL. ENSURE THAT THE PIT WALL AND FRAME FINISH FLUSH.



SECTION A-A

NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH DRAWINGS MCC 501, MCC 502, MCC 503 & MCC 504.
2. WIDTH OF WALLS AND TRAY OF NEW WORKS TO BE OF 150mm THICK REINFORCED CONCRETE.
3. N12 BARS @ 300 CENTRES ARE TO BE USED TO JOIN NEW CONCRETE WORKS TO EXISTING CONCRETE.
4. REINFORCEMENT MESH TO BE CENTRALLY PLACED THROUGHOUT WORKS. MINIMUM 50MM COVER AT ALL TIMES. JOINTS TO OVERLAP ONE FULL PATTERN.
5. CROSSOVER PROFILE TO MATCH EXISTING ENVIRONMENT OR AS DIRECTED BY COUNCIL ENGINEER.
6. GRATE & FRAME TO BE MEDIUM DUTY FOR RESIDENTIAL CROSSINGS. HEAVY DUTY IS REQUIRED FOR INDUSTRIAL CROSSINGS. GRATE TO BE BICYCLE SAFE AND CONFORM TO AUSTRALIAN STANDARD AS 3996.

ISSUE	APPD	DATE	AMENDMENT
E			
D			
C			
B	M.H.	12/16	REVIEWED AND REVISED PIT DETAILS, FONTS
A	J.V.	06/07	REVIEWED AND UPDATED 2000 STANDARD DRAWINGS

GENERAL NOTES

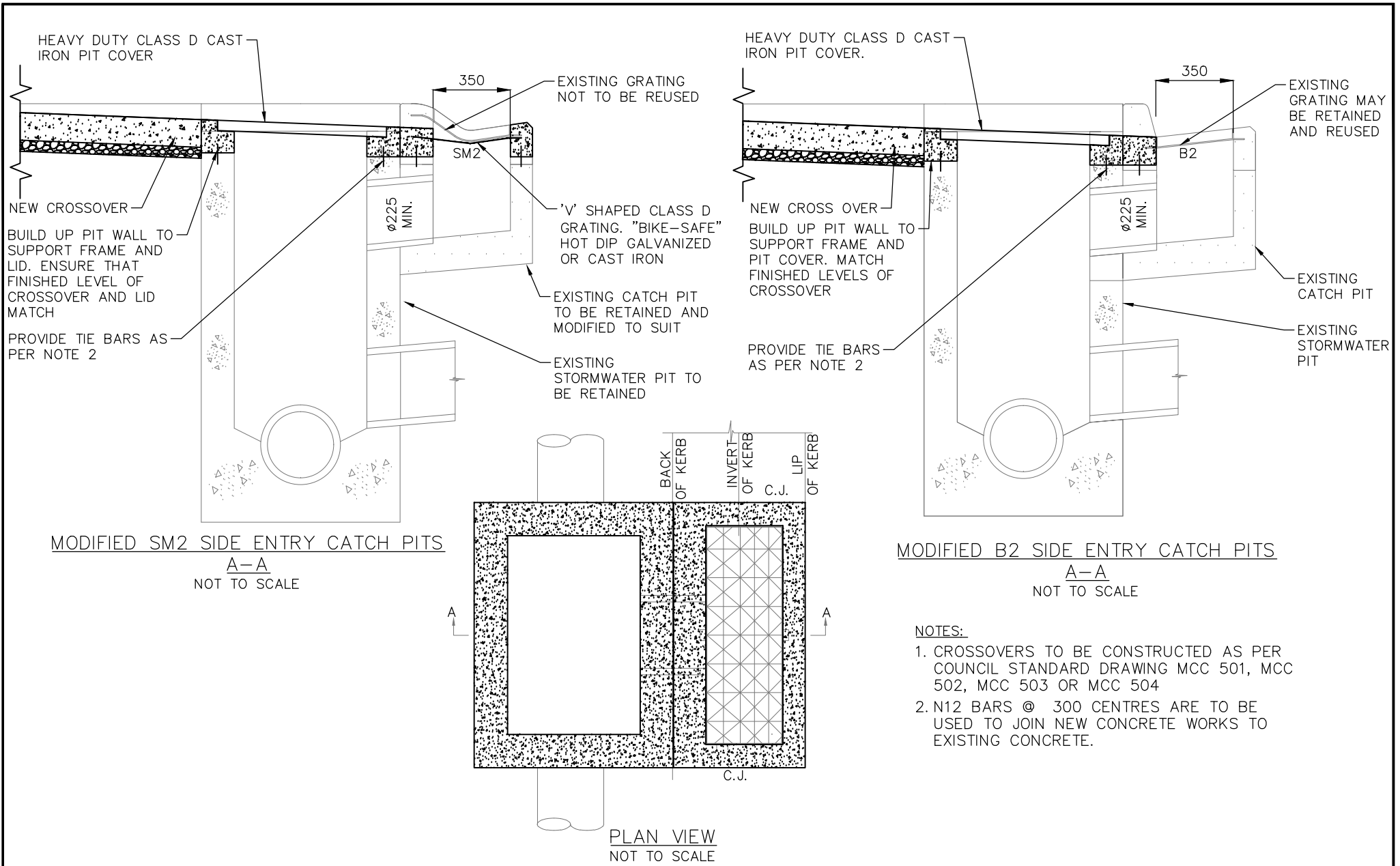


DESIGN	L.SHE
DRAWN	L.SHE
CHECKED	M.HUTCHINSON
DATE	APRIL 2016

PROJECT	STANDARD DRAWING - MCC 611
DETAILS	MODIFIED SIDE ENTRY PIT

N.T.S.	
SHEET 1 OF 1	PAPER A4
DRAWING No.	REV B
FILE NAME MCC 611 - MODIFIED SIDE ENTRY PIT.DWG	

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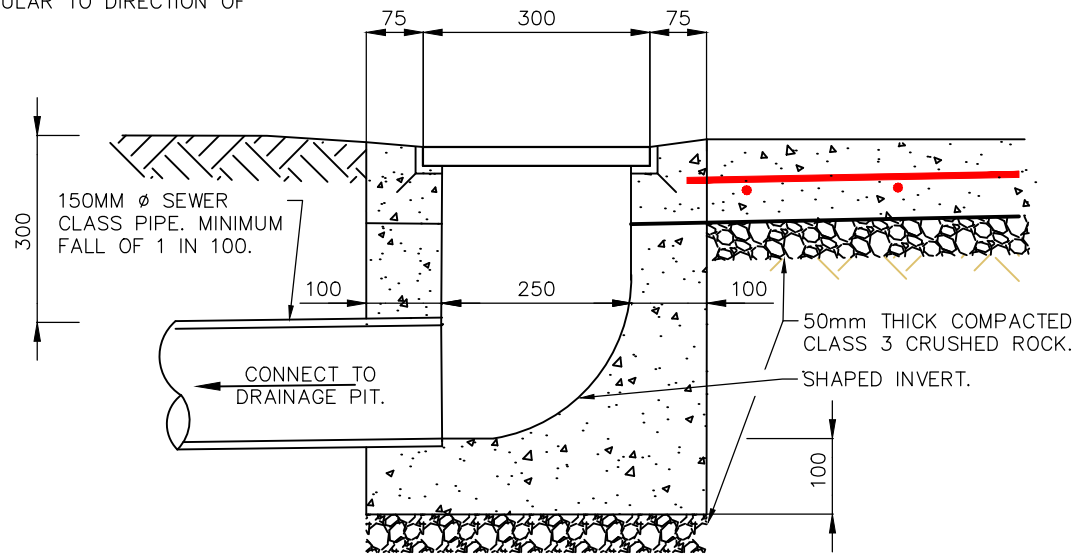
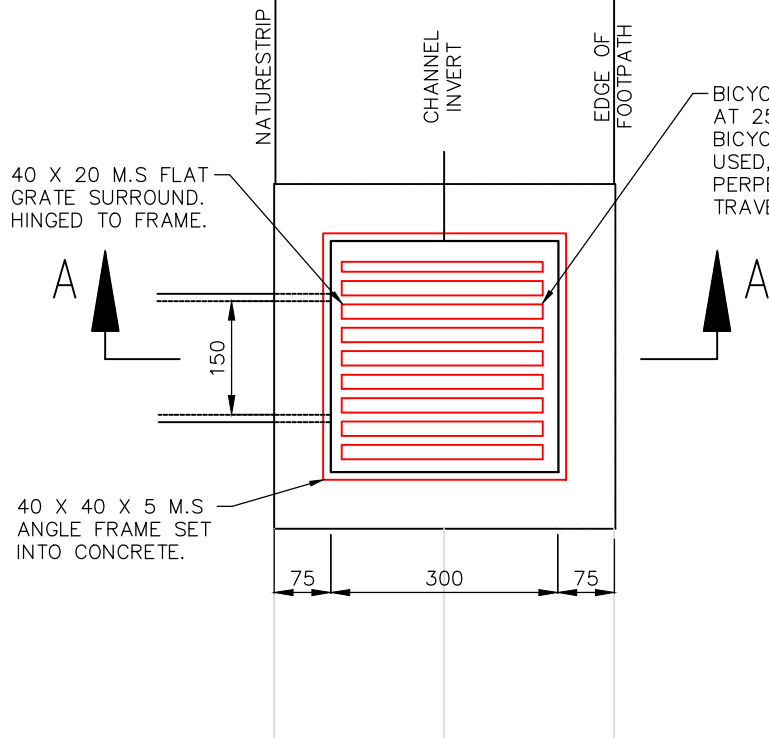


NOTES:

- CROSSOVERS TO BE CONSTRUCTED AS PER COUNCIL STANDARD DRAWING MCC 501, MCC 502, MCC 503 OR MCC 504
- N12 BARS @ 300 CENTRES ARE TO BE USED TO JOIN NEW CONCRETE WORKS TO EXISTING CONCRETE.

17/1/2017 1:57:22 PM

E				GENERAL NOTES		DESIGN	L.SHE	PROJECT	STANDARD DRAWING - MCC 612		N.T.S.		
D						DRAWN	L.SHE		SHEET	1 OF 1	PAPER	A4	
C						CHECKED	M.HUTCHINSON	DETAILS	MODIFIED SIDE ENTRY PITS WITH EXISTING CATCH PITS		DRAWING No.	REV	B
B	M.H	08/16	REVISED PIT DETAILS			DATE	APRIL 2016	FILE NAME	MCC 612 - MODIFIED SIDE ENTRY PIT - TYPE 2.DWG				
A	M.H	08/16	FIRST DRAFT										
ISSUE	APPD	DATE	AMENDMENT										



SECTION A-A

NOTES

1. COUNCIL WILL ONLY APPROVE SPOON DRAIN IN EXTREME CASES. ALTERNATIVE OPTIONS SHOULD BE INVESTIGATED.
2. OPEN CHANNEL TO BE POURED INTEGRALLY WITH FOOTPATH.
3. PITS TO BE AT 50M SPACINGS. LESS WHEN NATURE STRIP IS OF REVERSE FALL.
4. GRATE AND FRAME TO BE HOT DIP GALVANISED.
5. PITS TO BE 1M CLEAR OF DRIVEWAY/CROSSOVERS.

17/11/2017 1:57:23 PM

ISSUE	APPD	DATE	AMENDMENT
E			
D			
C	M.H.	12/16	REVIEWED AND REVISED DETAILS, FONTS
B	M.H.	05/16	REVIEWED AND REVISED DRAWING
A	J.V.	06/07	REVIEWED AND UPDATED 2000 STANDARD DRAWINGS

GENERAL NOTES	

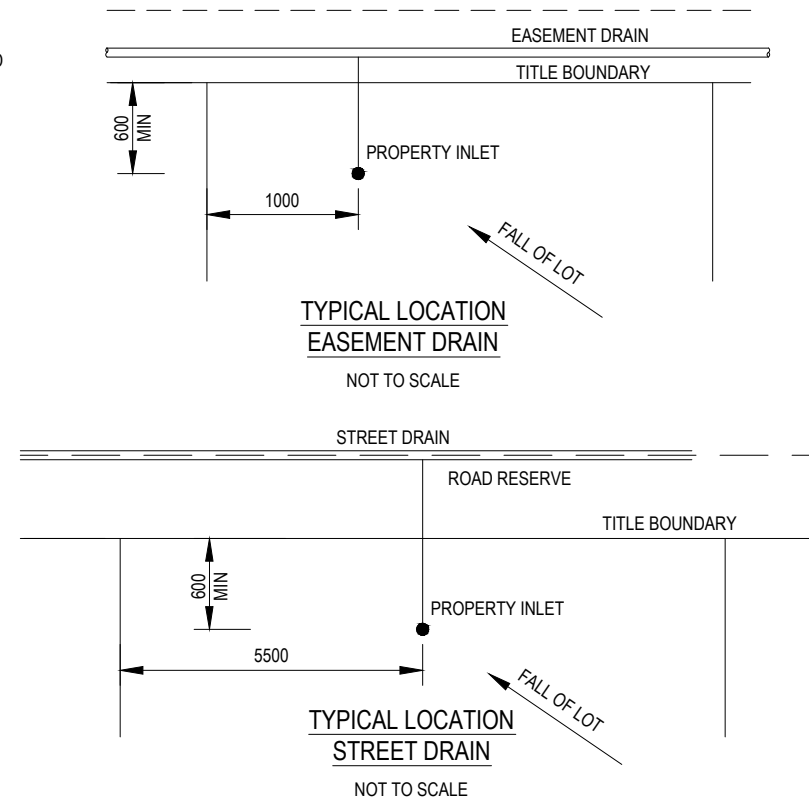
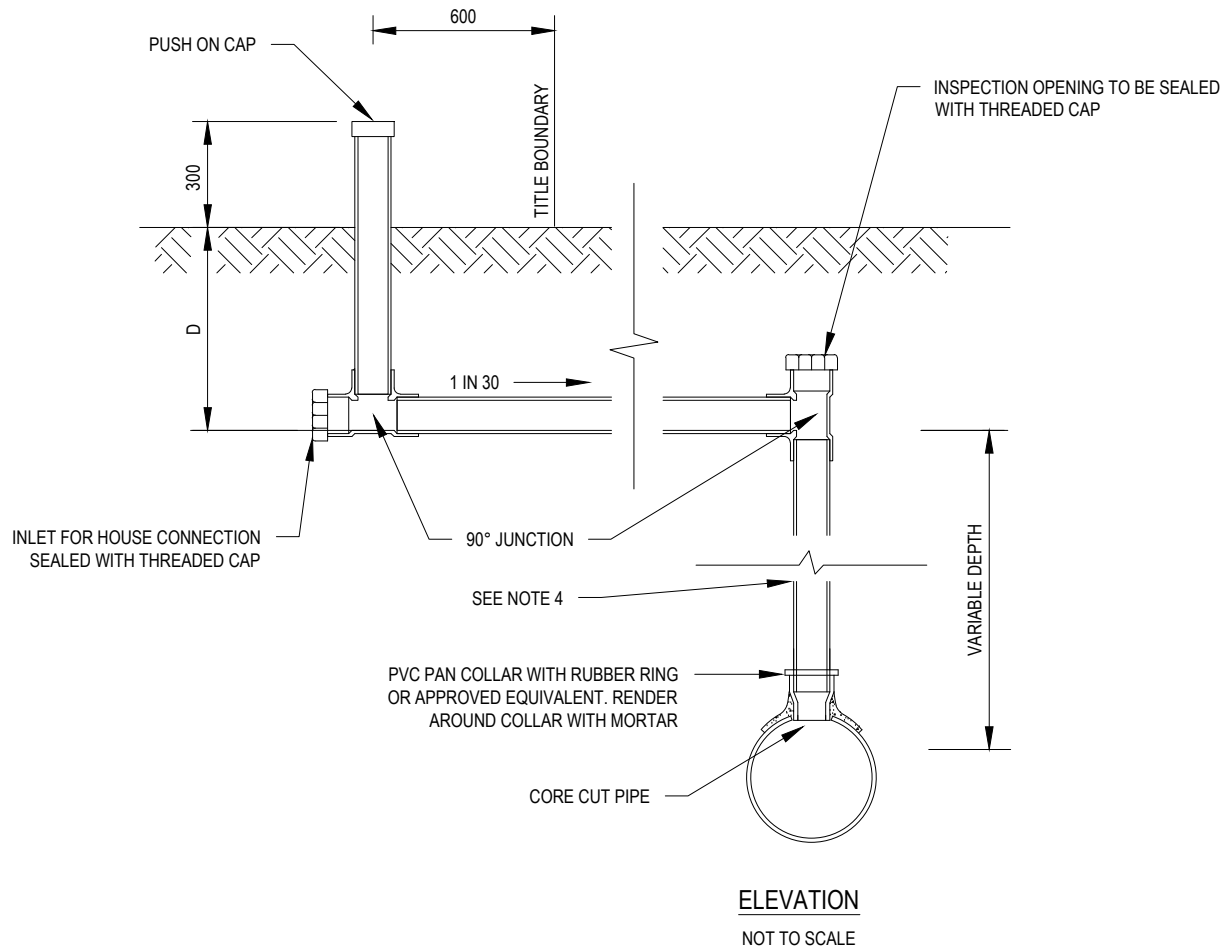
CITY OF

 MELTON
 ENGINEERING SERVICES DEPT

DESIGN	L.SHE
DRAWN	L.SHE
CHECKED	M.HUTCHINSON
DATE	APRIL 2016

PROJECT	STANDARD DRAWING - MCC 613
DETAILS	AUXILIARY CHANNEL PIT

N.T.S.	
SHEET 1 OF 1	PAPER A4
DRAWING No.	REV C
FILE NAME MCC 613 - AUXILIARY CHANNEL PIT.DWG	



NOTES:

1. ALL PROPERTY CONNECTION PIPES AND FITTINGS TO BE OF 100mm PVC SEWER CLASS SN6, REFER AS 1260.
2. ALL PVC JOINTS TO BE SEALED WITH SOLVENT CEMENT OR RUBBER RING JOINTS.
3. DEPTH 'D' = 400mm MINIMUM UNLESS APPROVED BY COUNCIL.
4. BACKFILL AROUND RISER PIPE WITH CLASS 3 CRUSHED ROCK OR CLASS 3 CRUSHED CONCRETE.
5. BED PROPERTY CONNECTION PIPE ON 50mm COMPACTED 20mm CLASS 3 CRUSHED ROCK OR CLASS 3 CRUSHED CONCRETE.
6. BACKFILL TRENCH WITH CLASS 3 20mm CRUSHED ROCK OR CLASS 3 20mm CRUSHED CONCRETE TO 100mm ABOVE THE PROPERTY CONNECTION IN EASEMENTS AND UNPAVED AREAS AND TO SUBGRADE LEVEL UNDER FOOTPATHS AND PAVED AREAS.
7. ALL DIMENSIONS IN MILLIMETRES.
8. NOT APPLICABLE TO MELBOURNE WATER CORPORATION DRAINAGE ASSETS. FOR MWC WORKS REFER TO MWC LAND DEVELOPMENT MANUAL.

No	Revision	Note: * Indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date
0	FINAL ISSUE		DG	MM	-	16.11.15

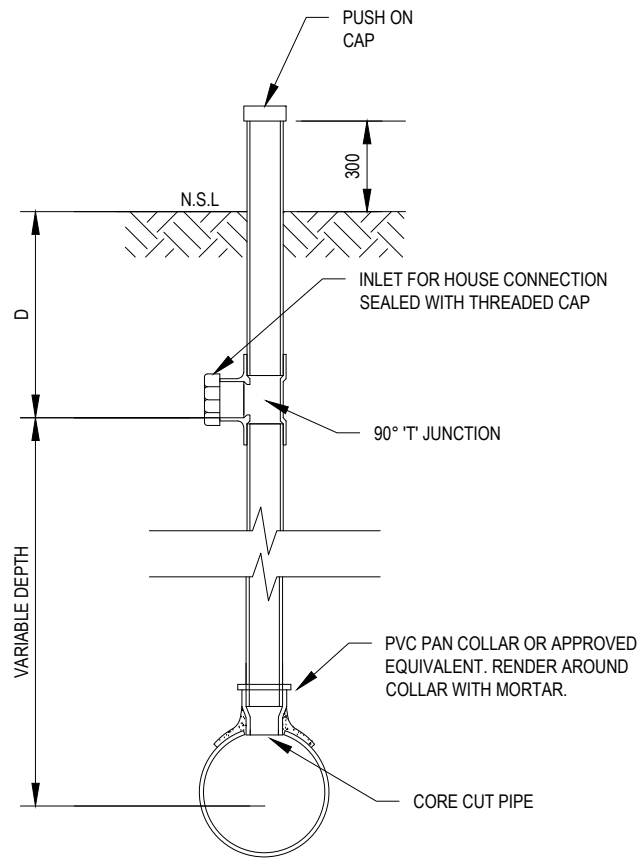
Plot Date: 16 November 2015 - 3:55 PM Plotted by: Kerry Walton

Cad File No: \Infrastructure Planning\MPA standard drawings\20150506 EDCM DRAWINGS - NEW\3\2\0\2015 Drawings\EDCM - 701.dwg

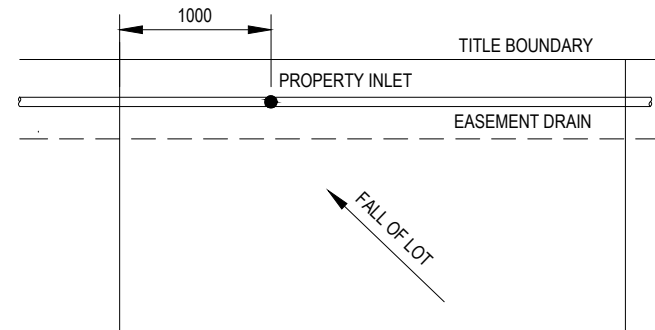


STANDARD DRAWINGS FOR
SUBDIVISIONS IN GROWTH AREAS
PROPERTY INLET
TYPE A

Revision | 0
Date | DEC 2015
EDCM 701



ELEVATION
NOT TO SCALE



TYPICAL LOCATION
NOT TO SCALE

NOTES:

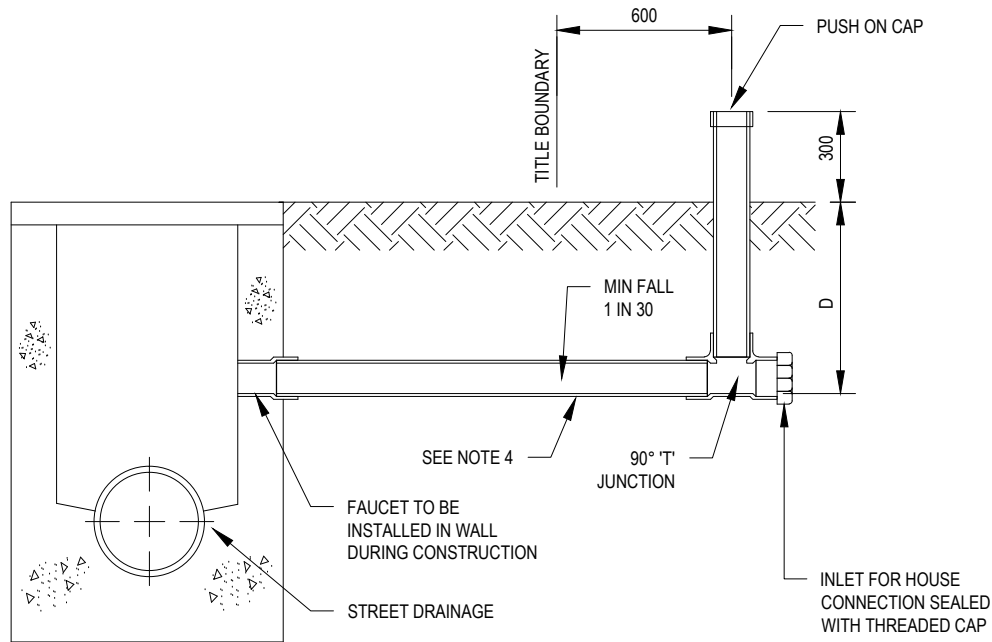
1. ALL PROPERTY CONNECTION PIPES AND FITTINGS TO BE OF 100mm PVC SEWER CLASS SN6, REFER AS 1260.
2. ALL PVC JOINTS TO BE SEALED WITH SOLVENT CEMENT OR RUBBER RING JOINTS.
3. DEPTH 'D' = 400mm MINIMUM UNLESS APPROVED BY COUNCIL.
4. BACKFILL AROUND RISER PIPE WITH CLASS 3 CRUSHED ROCK OR CLASS 3 CRUSHED CONCRETE.
5. BED PROPERTY CONNECTION PIPE ON 50mm COMPACTED 20mm CLASS 3 CRUSHED ROCK OR CLASS 3 CRUSHED CONCRETE.
6. ALL DIMENSIONS IN MILLIMETRES OR AS NOTED OTHERWISE.
7. NOT APPLICABLE TO MELBOURNE WATER CORPORATION DRAINAGE ASSETS. FOR MWC WORKS REFER TO MWC LAND DEVELOPMENT MANUAL.

No	Revision	Note: * Indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date
0	FINAL ISSUE		DG	MM	-	16.11.15



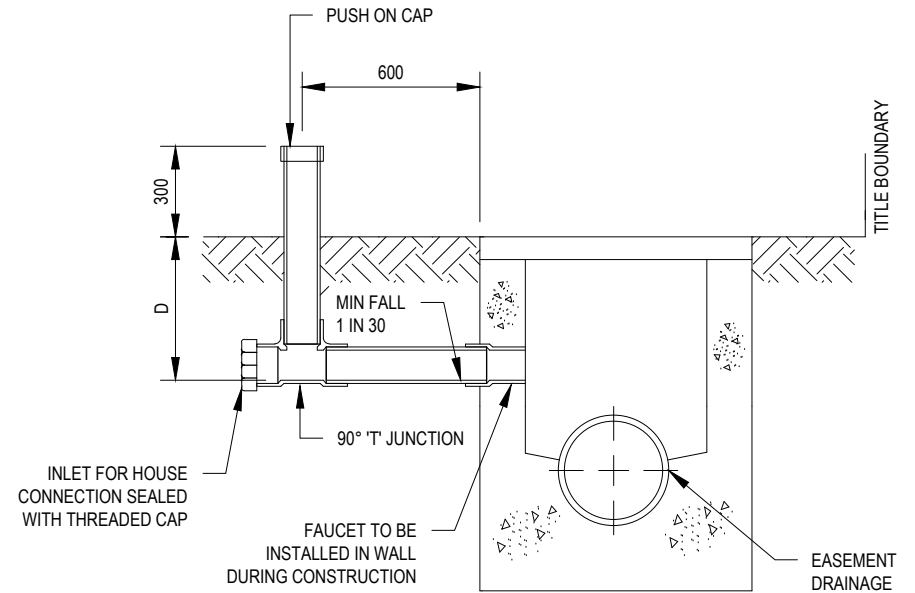
STANDARD DRAWINGS FOR
SUBDIVISIONS IN GROWTH AREAS
**PROPERTY INLET
TYPE B**

Revision | 0
Date | DEC 2015
EDCM 702



STREET DRAINAGE ELEVATION

NOT TO SCALE



EASEMENT DRAINAGE ELEVATION

NOT TO SCALE

NOTES:

1. ALL PIPES AND FITTINGS TO BE OF 100mm PVC CLASS SN6, REFER AS 1260.
2. ALL PVC JOINTS TO BE SEALED WITH SOLVENT CEMENT OR RUBBER RING JOINTS.
3. DEPTH 'D' = 400mm MINIMUM UNLESS APPROVED BY COUNCIL.
4. BED PROPERTY CONNECTION PIPE ON 50MM COMPACTED 20mm CLASS 3 CRUSHED ROCK OR CLASS 3 CRUSHED CONCRETE.
5. BACKFILL TRENCH WITH CLASS 3 20mm CRUSHED ROCK OR CLASS 3 20mm CRUSHED CONCRETE TO 100mm ABOVE THE PROPERTY CONNECTION PIPE IN EASEMENTS AND UNPAVED AREAS AND TO SUBGRADE LEVEL UNDER FOOTPATHS AND PAVED AREAS.
6. TRENCH UNDER FOOTPATH TO BE BACKFILLED WITH COMPACTED 20MM CLASS 3 CRUSHED ROCK.
7. IF THE HOLE IN THE PIT WALL FOR THE PIPE IS NOT AVAILABLE, A HOLE IS TO BE CORE DRILLED.
8. ALL DIMENSIONS IN MILLIMETRES OR AS NOTED OTHERWISE.
9. REFER TO EDCM 605-609 FOR PIT DETAILS.

No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date
0	FINAL ISSUE		DG	MM	-	16.11.15

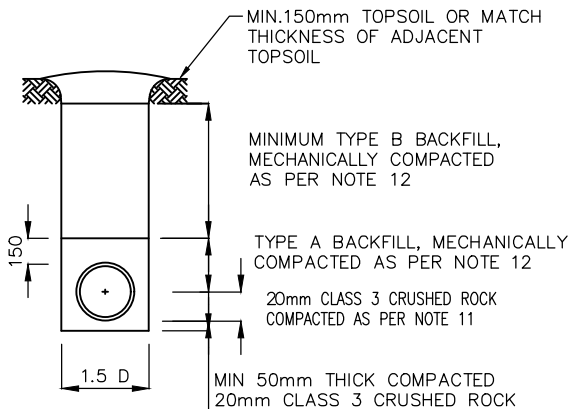
Plot Date: 16 November 2015 - 4:20 PM Plotted by: Kerry Walton

Cad File No: \Infrastructure Planning\EDCM Standard Drawings\EDCM - 703.dwg

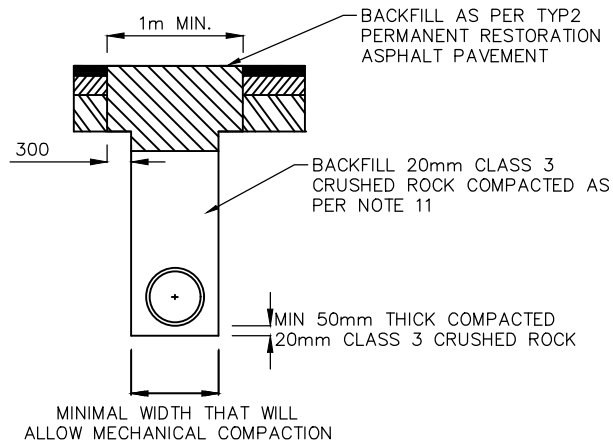


STANDARD DRAWINGS FOR
SUBDIVISIONS IN GROWTH AREAS
**PROPERTY INLET
TYPE C**

Revision | 0
Date | DEC 2015
EDCM 703



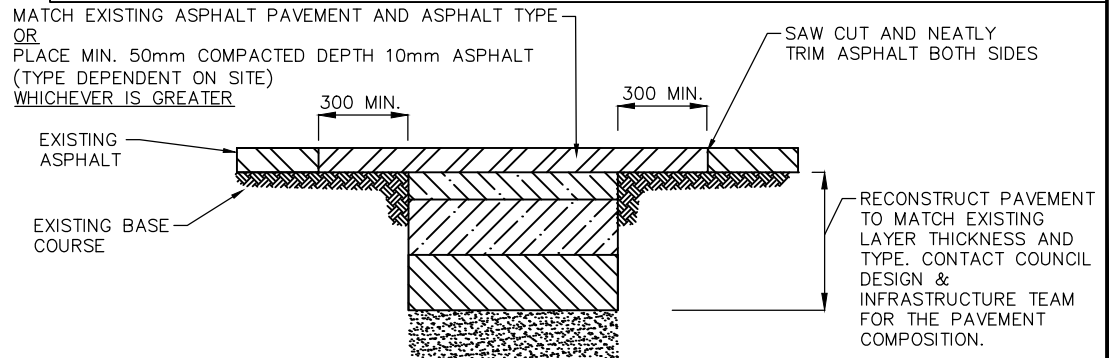
BACKFILL IN UNPAVED AREAS IN PARKING/RESERVES, EASEMENTS & ROAD VERGE



BACKFILL IN ROAD PAVEMENTS

NOTES

1. THIS IS COUNCILS MINIMUM STANDARD FOR BACKFILL, REFER TO SERVICE AUTHORITY STANDARDS WHEN INSTALLING SERVICES.
2. ANY WORKS WITHIN THE ROAD RESERVE MUST OBTAIN CONSENT AS PER THE ROAD MANAGEMENT ACT.
3. ALL WORK MUST BE GUARANTEED FOR A TWELVE MONTH MAINTENANCE PERIOD IN ACCORDANCE WITH THE ROAD MANAGEMENT ACT OR LONGER BY AGREEMENT WITH CITY OF MELTON
4. BACKFILL UNDER ROAD PAVEMENTS TO BE 20MM CLASS 3 CRUSHED ROCK COMPACTED AS PER NOTE 11
5. PIPE TRENCHES BENEATH CROSSOVERS OR ADJACENT TO KERBING UP TO THE LEVEL THAT IS AFFECTED BY A 45 DEGREES ANGLE OF REPOSE MUST BE FILLED AS PER BACKFILL IN ROAD PAVEMENTS.
6. PIPE OFFSET IN EASEMENTS TO BE A MINIMUM OF 1000mm FROM TITLE BOUNDARY.
7. DRAINAGE PIPE OFFSET BEHIND KERB TO BE MINIMUM (0.5 X DIAMETER) + 600MM.
8. ALL EXCAVATIONS UNDER VEHICLE CROSSINGS AND FOOTPATHS ARE TO BE BACKFILLED WITH A MINIMUM 20mm CLASS 4 FCR WITH A 50MM LAYER OF 20mm CLASS 3 FCR PLACED IMMEDIATELY BELOW THE VEHICLE CROSSING OR FOOTPATH. SEE MCC 501 & EDCM 401.
9. ALL TRENCH CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT O.H&S REGULATIONS.
10. EXISTING CONCRETE AND ASPHALT SURFACE SHALL BE SAW CUT TO PROVIDE NEAT AND CLEAN EDGE, FOR EXCAVATION. FULL BAYS OF DAMAGED CONCRETE TO BE REPLACED. FOOTPATH SHALL BE JOINED TO EXISTING IN ACCORDANCE WITH EXPANSION JOINT ON EDCM 401. KERB AND CHANNEL TO BE JOINED TO EXISTING WITH 2 X 450 mm LONG N12 BARS AT EACH END.
11. CLASS 3 MATERIAL TO BE MECHANICALLY COMPACTED AT 97% MODIFIED COMPACTION IN LAYERS NOT EXCEEDING 200mm LOOSE THICKNESS.
12. EARTH BACKFILL TO BE MECHANICALLY COMPACTED AT 95% STANDARD COMPACTION IN LAYERS NOT EXCEEDING 200MM LOOSE THICKNESS.
13. ALL PIPE JOINTING AND LAYING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. SHOULD THERE BE ANY DISAGREEMENT BETWEEN THE MELTON CITY COUNCIL STANDARD DRAWINGS AND THE MANUFACTURER'S SPECIFICATIONS, PLEASE REFER TO COUNCIL ENGINEER.
14. ALL DIMENSION SHOWN IN mm UNLESS SPECIFIED OTHERWISE.



TYP2 PERMANENT RESTORATION ASPHALT PAVEMENT

27/7/2020 11:19:49 AM

ISSUE	APPD	DATE	AMENDMENT
F	M.H	27/07/2020	REVISED TYPE 2 PAVEMENT
E	M.H	05/16	REVISED BACKFILL REQUIREMENT UNDER PAVEMENTS
D	M.H	05/16	REVIEWED AND UPDATED NOTES, FONTS
C	M.H	06/11	DELETED KERB AND CROSSFALL AND MODIFIED NOTES
B	P.J.	04/08	DELETED ROAD VERGE DRAWING AND MODIFIED NOTES

GENERAL NOTES	

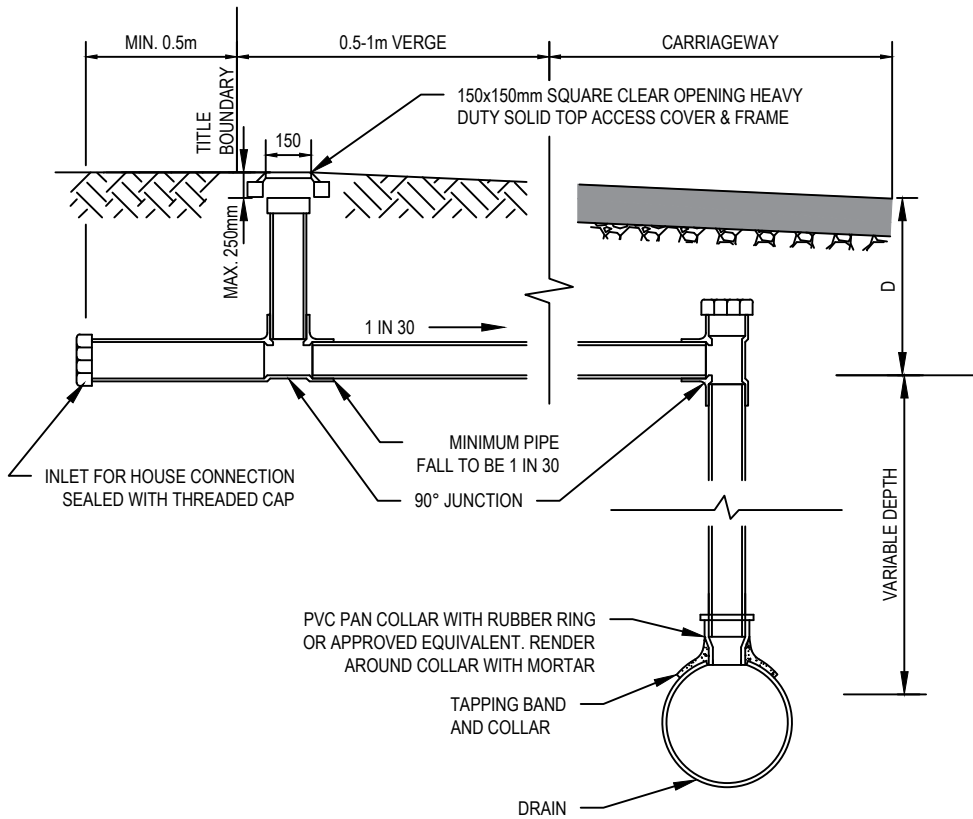
CITY OF MELTON

ENGINEERING SERVICES DEPT

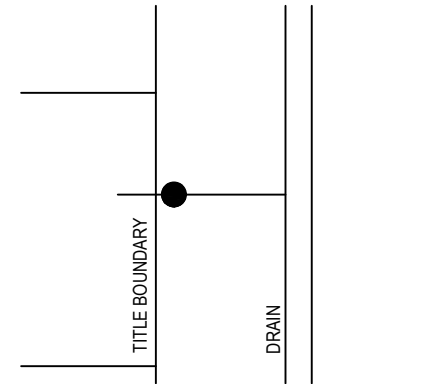
DESIGN	L.SHE
DRAWN	L.SHE
CHECKED	M.HUTCHINSON
DATE	DEC 16

PROJECT	STANDARD DRAWING - MCC 704
DETAILS	PIPE BEDDING & RE-INSTALLMENTS

N.T.S.	
SHEET	1 OF 1
PAPER	A4
DRAWING No.	REV F
FILE NAME	MCC 704 - PIPE BEDDING & RE-INSTALLMENTS V2.DWG



PROPERTY INLET DETAIL
(FOR LANEWAYS)
N.T.S



TYPICAL LOCATION
(FOR LANEWAYS)
N.T.S

NOTES

1. ALL PIPES AND FITTINGS TO BE OF 100mm PVC CLASS SN6, REFER AS 1260
2. ALL PVC JOINTS TO BE SEALED WITH SOLVENT CEMENT OR RUBBER RING JOINTS
3. DEPTH D = MINIMUM 400mm UNLESS APPROVED BY COUNCIL.
4. BACKFILL AROUND RISER PIPE WITH CLASS 3 CRUSHED ROCK OR CLASS 3 CRUSHED CONCRETE.
5. BED PROPERTY CONNECTION PIPE ON 50mm COMPACTED 20mm CLASS 3 CRUSHED ROCK OR CLASS 3 CRUSHED CONCRETE
6. ALL DIMENSIONS IN MILLIMETRES OR AS NOTED OTHERWISE.
7. A TAPPING BAND AND COLLAR ARE TO BE INCLUDED FOR EACH PROPERTY INLET.
8. NOT APPLICABLE TO MELBOURNE WATER CORPORATION DRAINAGE ASSETS. FOR MWC WORKS. REFER TO MWC LAND DEVELOPMENT MANUAL.

23/11/2021 12:15:32 PM

ISSUE	APPD	DATE	AMENDMENT
F			
E			
D			
C			
B	-	12/10/21	INITIAL DRAFT + amendments 25/10 + 08/11 + 22/11

GENERAL NOTES



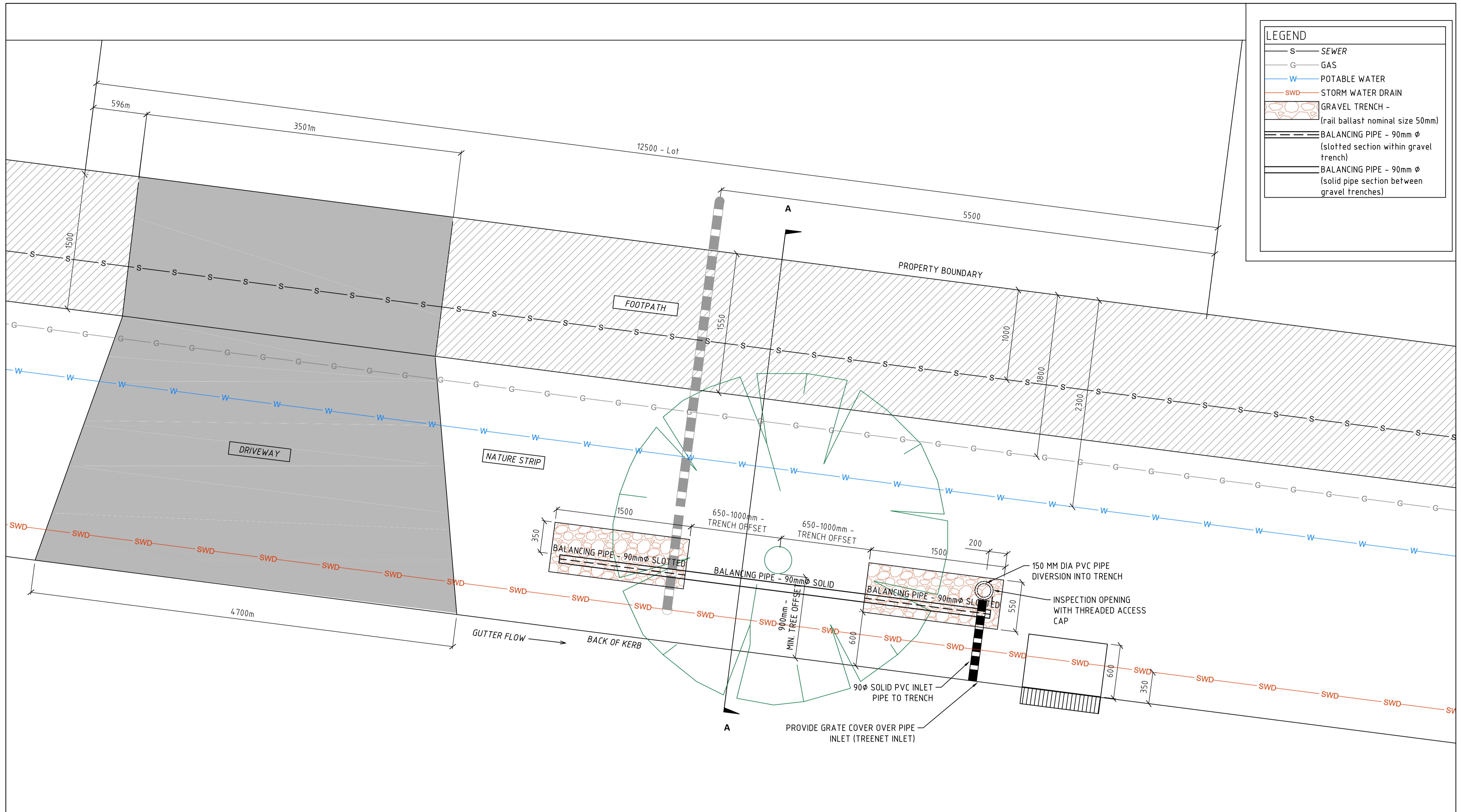
ENGINEERING SERVICES DEPT

DESIGN	L.SHE
DRAWN	L.SHE
CHECKED	-
DATE	OCT 21

PROJECT	STANDARD DRAWING - MCC 705
DETAILS	PROPERTY INLET TYPE D (FOR LANEWAYS)

N.T.S.	
SHEET 1 OF 1	PAPER A4
DRAWING No. MCC 705	REV A
FILE NAME MCC -LPD IN LANE WAYS V1.DWG	

LEGEND	
S	SEWER
G	GAS
W	POTABLE WATER
SWD	STORM WATER DRAIN
	GRAVEL TRENCH - (rail ballast nominal size 50mm)
	BALANCING PIPE - 90mm ϕ (slotted section within gravel trench)
	BALANCING PIPE - 90mm ϕ (solid pipe section between gravel trenches)



GENERAL NOTES:
 1 AT HIGHLY CONSTRAINED SITES, GRAVEL TRENCHES CAN BE MODIFIED IN THE FOLLOWING WAYS:
 - REDUCED OFFSET OF 0.75 M FROM TREE CENTRELINE
 - DIMENSION 1.0 M LONG x 0.6 M WIDE x 0.75 M DEEP

REV	DESCRIPTION	APP'D	DATE
G	UPDATED DESIGN	V.L	19.02.24
F	UPDATED DESIGN - REISSUE	L.S	29.04.20
D	REVISED DESIGN - REISSUE	JMcL	01.03.19
C	REVISED DESIGN - REISSUE	JMcL	31.10.18
B	REVISED DESIGN	JMcL	09.10.18
A	PRELIMINARY ISSUE	HV	27.09.18



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 www.alluvium.com.au

DESIGNED: H. VIRASAWMY	DRAWN: K. STANHOPE	CHECKED: J. MCLEAN	APPROVED:	PROJECT No: P118105
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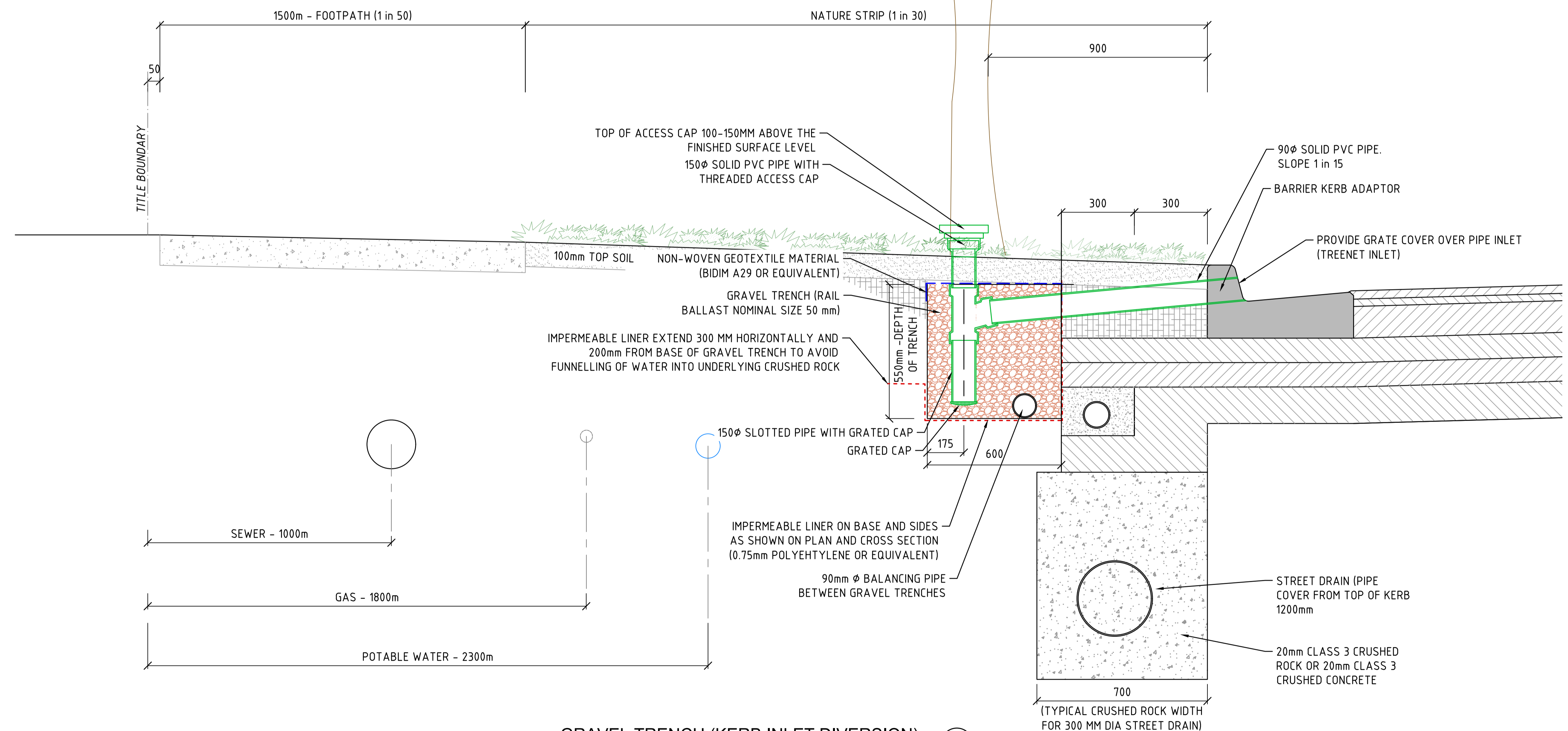
MELTON CITY COUNCIL
 PASSIVE STREET TREE IRRIGATION
 GRAVEL TRENCH (KERB INLET DIVERSION)
 PLAN

REVISION: G	SHEET No.: PLAN VIEW SHEET-1	ORIGINAL SIZE: A1	SCALE: 1:20 (A1) or 1:40 (A3)
DATUM: m AHD (MGA z55)			

NOTES:
 TOP OF GRAVEL TRENCH TO BE LINED WITH NON-WOVEN GEOTEXTILE MATERIAL AS SHOWN TO PREVENT FINE MIGRATION INTO THE TRENCH
 PASSIVE IRRIGATION PIPES AND FITTINGS TO BE 90 MM DIAMETER PVC SEWER CLASS
 ALL PVC JOINTS TO BE SEALED WITH SOLVENT CEMENT
 ALL GRASSED AREAS TO BE TOP DRESSED WITH 100 MM TOPSOIL AND SEEDED AS SPECIFIED
 SERVICE DEPTHS AND LOCATIONS ARE INDICATIVE ONLY
 WHERE THE VERGE IS LESS THAN 4.2m (TYPICAL) A SPECIFIC DETAIL SHALL BE SHOWN ON THE ENGINEERING DRAWINGS THAT RETAINS THE PRINCIPALS AND STORAGE VOLUME OUTLINED IN THIS DETAIL



TREENET INLET



GRAVEL TRENCH (KERB INLET DIVERSION) A/3
 1:10 (A1)

REV	DESCRIPTION	APP'D	DATE
G	UPDATED DESIGN	V.L	19.02.24
F	UPDATED DESIGN	L.S	29.04.20
D	REVISED DESIGN - REISSUE	JMcL	30.11.18
C	REVISED DESIGN - REISSUE	JMcL	31.10.18
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DESIGNED: H. VIRAHSAWMI
 DRAWN: K. STANHOPE
 CHECKED: J. MCLEAN
 APPROVED: [Signature]
 PROJECT No: P118105

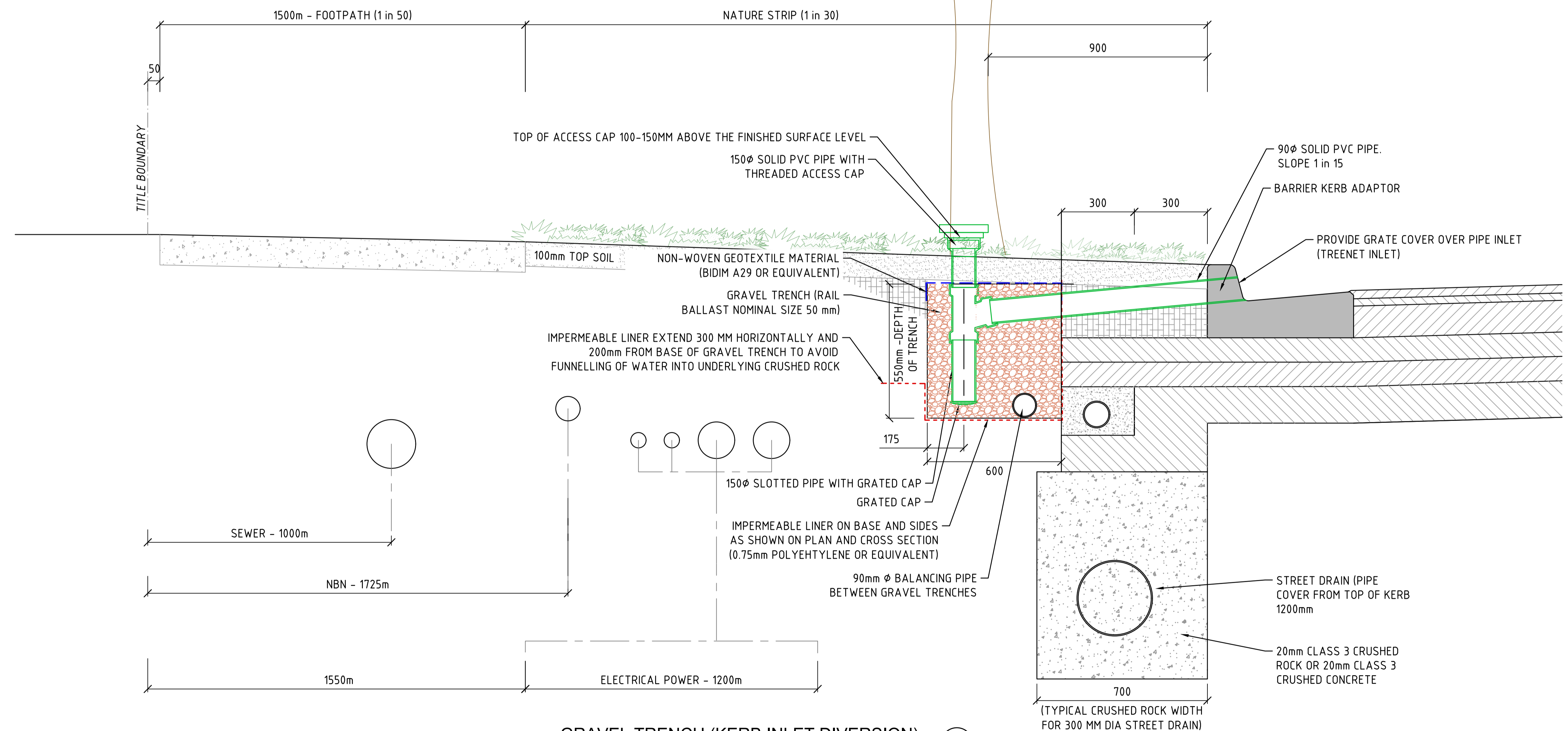
MELTON CITY COUNCIL
 PASSIVE STREET TREE IRRIGATION
 GRAVEL TRENCH (KERB INLET DIVERSION)
 CROSS SECTION

REVISION: G	SHEET No.: CROSS-SECTION 1 SHEET-2	ORIGINAL SIZE: A1	SCALE: 1:10 (A1) or 1:20 (A3)
DATUM: m AHD (MGA z55)			

NOTES:
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 PASSIVE IRRIGATION PIPES AND FITTINGS TO BE 90 MM DIAMETER PVC SEWER CLASS
 ALL PVC JOINTS TO BE SEALED WITH SOLVENT CEMENT
 ALL GRASSED AREAS TO BE TOP DRESSED WITH 100 MM TOPSOIL AND SEEDED AS SPECIFIED
 SERVICE DEPTHS AND LOCATIONS ARE INDICATIVE ONLY
 WHERE THE VERGE IS LESS THAN 4.2m (TYPICAL) A SPECIFIC DETAIL SHALL BE SHOWN ON THE ENGINEERING DRAWINGS THAT RETAINS THE PRINCIPALS AND STORAGE VOLUME OUTLINED IN THIS DETAIL

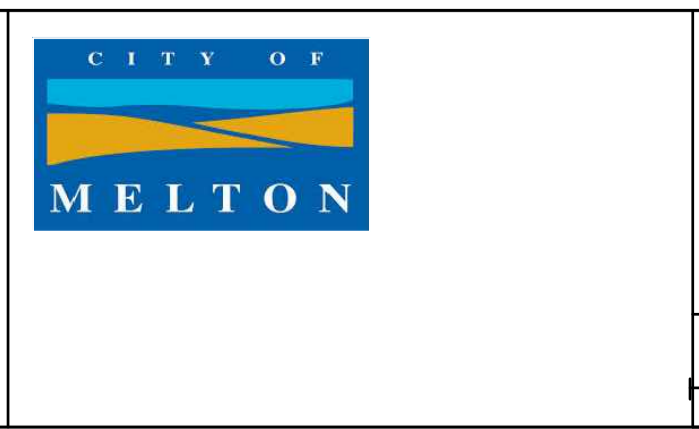
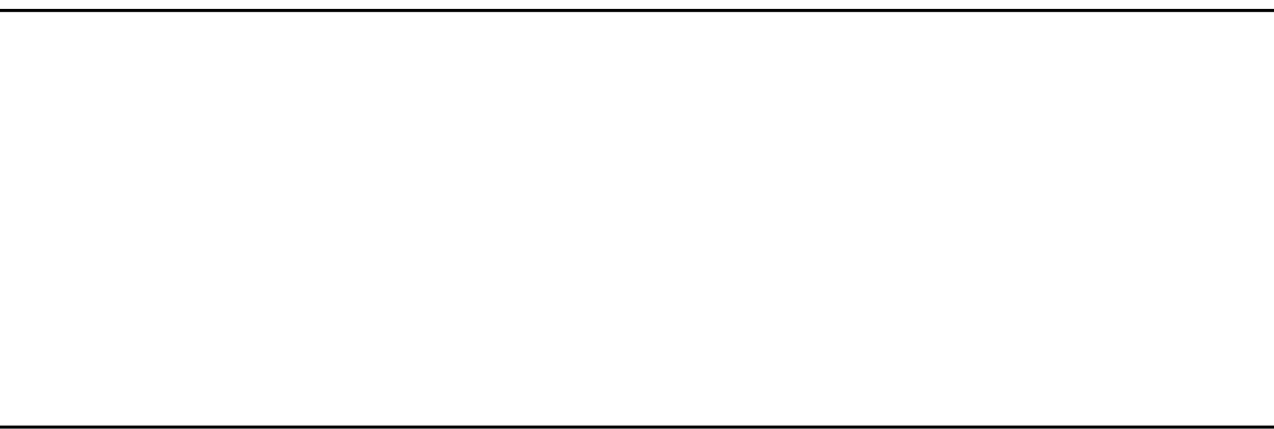


TREENET INLET



GRAVEL TRENCH (KERB INLET DIVERSION) A/3
 1:10 (A1)

REV	DESCRIPTION	APP'D	DATE
G	UPDATED DESIGN	V.L	19.02.24
F	UPDATED DESIGN	L.S	29.04.20
D	REVISED DESIGN - REISSUE	JMcL	30.11.18
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 APPROVED: [Signature]
 PROJECT No: P118105

MELTON CITY COUNCIL
 PASSIVE STREET TREE IRRIGATION
 GRAVEL TRENCH (KERB INLET DIVERSION)
 CROSS SECTION

REVISION: G
 SHEET No.: CROSS-SECTION 2 SHEET-2
 ORIGINAL SIZE: A1
 DATUM: m AHD (MGA z55)

SCALE: 1:10 (A1) or 1:20 (A3)
 0 0.1 0.2 0.4 0.6m