



LEGEND

PHASE BOUNDARY

SUB-PHASE BOUNDARY

ROAD 3 CENTRELINE SETOUT TABLE

Pt	Chainage	Easting	Northing	Level	Bearing	Radius	A.Length	D.Angle
IP1	0.000	18235.391	616996.682	15.700	254°39'09"			
TC	58.961	18178.532	616981.077	15.728	254°39'09"	15.000	17.797	67°58'42"
IP2	67.860	18168.779	616978.400					
CT	76.758	18162.641	616986.438	15.882	322°37'51"			
TC	124.042	18133.942	617024.016	15.989	322°37'51"	50.000	13.094	15°00'17"
IP3	130.590	18129.945	617029.249					
CT	137.137	18127.440	617035.339	15.922	337°38'08"			
TC	170.510	18114.741	617066.202	15.732	337°38'08"	12.500	21.166	97°01'01"
IP4	181.093	18109.364	617079.272					
CT	191.675	18122.993	617083.012	15.678	74°39'09"			
IP5	313.586	18240.556	617115.279	19.892	337°38'08"			

ROAD 2 CENTRELINE SETOUT TABLE

Pt	Chainage	Easting	Northing	Level	Bearing	Radius	A.Length	D.Angle
IP1	0.000	18248.766	616935.661	14.946	360°00'00"			
TC	18.709	18248.766	616954.370	14.682	0°00'00"	-50.000	-19.577	22°26'00"
IP2	28.497	18248.766	616964.286					
CT	38.286	18244.982	616973.451	15.094	337°34'00"			
IP3	177.289	18191.938	617101.935	17.354	337°34'00"			

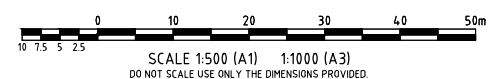
ROAD 1 CENTRELINE SETOUT TABLE

Pt	Chainage	Easting	Northing	Level	Bearing	Radius	A.Length	D.Angle
IP1	0.000	18150.900	616890.833	14.550	56°56'02"			
TC	58.416	18199.855	616922.705	13.668	56°56'02"	80.000	46.169	33°03'58"
IP2	81.500	18219.756	616935.661					
CT	104.585	18243.503	616935.661	14.787	90°00'00"			
TC	138.523	18277.442	616935.661	15.581	90°00'00"	-141.000	-126.691	51°28'53"
IP3	201.869	18345.424	616935.661					
CT	265.214	18387.761	616988.851	19.412	38°31'07"			
TC	308.786	18414.896	617022.941	21.052	38°31'07"	141.000	84.087	34°10'09"
IP4	350.829	18441.884	617056.847					
CT	392.873	18483.256	617069.743	23.575	72°41'16"			
TC	481.788	18568.144	617096.202	26.873	72°41'16"	80.000	92.027	65°54'34"
IP5	527.802	18617.657	617111.635					
CT	573.816	18651.957	617072.734	25.902	138°35'51"			
TC	611.932	18677.165	617044.144	24.669	138°35'51"	-80.000	-68.272	48°53'47"
IP6	646.068	18701.218	617016.863					
CT	680.204	18737.589	617017.052	26.583	89°42'03"			
IP7	710.569	18767.953	617017.211		72°41'16"			

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Plot Date: 15/01/2013 9:04:44 AM

User: CHRIS ROWE



3	AS CONSTRUCTED	CR	PDW	PI		14/01/13
2	FOR CONSTRUCTION WITH ROAD & AMENDMENTS	CR	PDW	PI		17/05/12
1	ISSUED FOR CONSTRUCTION	LM	PDW	PI	MKB	02/04/12
No.	Amendments	Drawn	Design	Appd	Registered Engineer	Reg No. Date

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LAND DEVELOPMENT CORPORATION

urbex

BMD consulting

25 Cambridge Parade, Murrumbidgee QLD 4178
P: 07 3063 7000 F: 07 3063 4000
E: bmd@bmd.com.au
www.bmd.com.au

ABN 28 010 743 002

Civil Engineers • Structural Engineers • Project Managers • Water Servicing Co-ordinators
Brisbane • Cairns • Canberra • Gladstone • Gold Coast • Mackay • Sydney • Townsville

AS CONSTRUCTED
INFORMATION CERTIFIED BY
BMD URBAN PTY LTD

SIGNED: *[Signature]* 19/01/13
DATE:

PERMISSION TO USE FOR CONSTRUCTION PURPOSES
ROADWORKS AND STORMWATER DRAINAGE

SIGNED **TED VIVIAN** DATE **25/05/2012**
DIRECTOR OF TECHNICAL SERVICES
CITY OF PALMERSTON

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Client **LAND DEVELOPMENT CORPORATION/URBEX**

Project **ZUCCOLI - PHASE 1.1**

Title **GENERAL ARRANGEMENT SHEET 1 OF 3**

Datum **AHD**
PSM
RL
(MGA) COORD

AS CONSTRUCTED

Project No. **B00039-CG002** Drawing No. **Rev**
3

File Name: B:\urbex - consulting\URBEX\B00039\B00039 - stage 1\civil-dwg\1-2\current\B00039-04.dwg
User: CHRIS ROWE
Plot Date: 15/01/2013 9:48:50 AM



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SIGNED.....DATE.....19/01/13

LEGEND
PHASE BOUNDARY
SUB-PHASE BOUNDARY

ROAD 4A CENTRELINE SETOUT TABLE

Pt	Chainage	Easting	Northing	Level	Bearing	Radius	A.Length	D.Angle
IP1	0.000	18267.389	617121.541	21.186	6°21'18"			
TC	20.456	18269.653	617141.871	21.412	6°21'18"	35.000	4.1721	68°17'51"
IP2	41.316	18272.281	617165.465					
CT	62.176	18295.175	617171.749	25.065	74°39'09"			
IP3	74.000	18306.577	617174.878		74°39'09"			

ROAD 4 CENTRELINE SETOUT TABLE

Pt	Chainage	Easting	Northing	Level	Bearing	Radius	A.Length	D.Angle
IP1	0.000	18345.347	616953.090	17.125	337°34'00"			
TC	172.306	18279.594	617112.357	21.158	337°33'60"	-15.000	-21.707	82°54'51"
IP2	183.160	18274.537	617124.605					
CT	194.013	18261.759	617121.098	21.059	254°39'09"			
IP3	216.000	18240.556	617115.279	19.892	254°39'09"			

ROAD 3 CENTRELINE SETOUT TABLE

Pt	Chainage	Easting	Northing	Level	Bearing	Radius	A.Length	D.Angle
IP1	0.000	18235.391	616996.682	15.700	254°39'09"			
TC	58.961	18178.532	616981.077	15.728	254°39'09"	15.000	17.797	67°58'42"
IP2	67.860	18168.779	616978.400					
CT	76.758	18162.641	616986.438	15.882	322°37'51"			
TC	124.042	18133.942	617024.016	15.989	322°37'51"	50.000	13.094	15°00'17"
IP3	130.590	18129.945	617029.249					
CT	137.137	18127.440	617035.339	15.922	337°38'08"			
TC	170.510	18114.741	617066.202	15.732	337°38'08"	12.500	21.166	97°01'01"
IP4	181.093	18109.364	617079.272					
CT	191.675	18122.993	617083.012	15.678	74°39'09"			
IP5	313.586	18240.556	617115.279	19.892	337°38'08"			

ROAD 2 CENTRELINE SETOUT TABLE

Pt	Chainage	Easting	Northing	Level	Bearing	Radius	A.Length	D.Angle
IP1	0.000	18248.766	616935.661	14.946	360°00'00"			
TC	18.709	18248.766	616954.370	14.682	0°00'00"	-50.000	-19.577	22°26'00"
IP2	28.497	18248.766	616964.286					
CT	38.286	18244.982	616973.451	15.094	337°34'00"			
IP3	177.289	18191.938	617101.935	17.354	337°34'00"			

ROAD 1 CENTRELINE SETOUT TABLE

Pt	Chainage	Easting	Northing	Level	Bearing	Radius	A.Length	D.Angle
IP1	0.000	18150.900	616890.833	14.550	56°56'02"			
TC	58.416	18199.855	616922.705	13.668	56°56'02"	80.000	46.169	33°03'58"
IP2	81.500	18219.756	616935.661					
CT	104.585	18243.503	616935.661	14.787	90°00'00"			
TC	138.523	18277.442	616935.661	15.581	90°00'00"	-14.1000	-126.691	51°28'53"
IP3	201.869	18345.424	616935.661					
CT	265.214	18387.761	616988.851	19.412	38°31'07"			
TC	308.786	18414.896	617022.941	21.052	38°31'07"	14.1000	84.087	34°10'09"
IP4	350.829	18441.884	617056.847					
CT	392.873	18483.256	617069.743	23.575	72°41'16"			
TC	481.788	18568.144	617096.202	26.873	72°41'16"	80.000	92.027	65°54'34"
IP5	527.802	18617.657	617111.635					
CT	573.816	18651.957	617072.734	25.902	138°35'51"			
TC	611.932	18677.165	617044.144	24.669	138°35'51"	-80.000	-68.272	48°53'47"
IP6	646.068	18701.218	617016.863					
CT	680.204	18737.589	617017.052	26.583	89°42'03"			
IP7	710.569	18767.953	617017.211		72°41'16"			

**PERMISSION TO USE FOR CONSTRUCTION PURPOSES
ROADWORKS AND STORMWATER DRAINAGE**

SIGNED **TED VIVIAN** DATE **25/05/2012**
DIRECTOR OF TECHNICAL SERVICES
CITY OF PALMERSTON

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No.	Amendments	Drawn	Design	Appd	Registered Engineer	Reg No.	Date
3	AS CONSTRUCTED	CR	PDW	PI			14/01/13
2	FOR CONSTRUCTION WITH ROAD 4 AMENDMENTS	CR	PDW	PI			17/05/12
1	ISSUED FOR CONSTRUCTION	LM	PDW	PI	MKB		02/04/12

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Client	LAND DEVELOPMENT CORPORATION/URBEX		Datum	AHD
Project	ZUCCOLI - PHASE 1.1		PSM	RL
Title	GENERAL ARRANGEMENT SHEET 2 OF 3		(MGA) COORD	
		Project No.	Drawing No.	Rev
		B00039-CG003		3



PT	Chainage	Easting	Northing	Level	Bearing	Radius	A.Length	D.Angle
IP1	0.000	184.81.356	617069.136	23.467	337°34'00"			
TC	131.704	184.31.097	617190.873	25.539	337°34'00"			
IP2	146.175	184.24.354	617207.203			-20.000	-28.943	82°54'51"
CT	160.646	184.07.317	617202.527	25.665	254°39'09"			
IP3	243.000	18327.900	617180.730		254°39'09"			

Pt	Chainage	Easting	Northing	Level	Bearing	Radius	A.Length	D.Angle
IP1	0.000	18150.900	616890.833	14.550	56°56'02"			
CT	58.416	18199.855	616922.705	13.668	56°56'02"			
IP2	81.500	18219.756	616935.661			80.000	46.169	33°03'58"
CT	104.585	18243.503	616935.661	14.787	90°00'00"			
TC	138.523	18277.442	616935.661	15.581	90°00'00"			
IP3	201.869	18345.424	616935.661			-141.000	-126.691	51°28'53"
CT	265.214	18387.761	616988.851	19.412	38°31'07"			
TC	308.786	18414.896	617022.944	21.052	38°31'07"			
IP4	350.829	18441.884	617056.847			141.000	84.087	34°10'09"
CT	392.873	18483.256	617069.743	23.575	72°4'116"			
TC	481.788	18568.144	617096.202	26.873	72°4'116"			
IP5	527.802	18617.657	617111.635			80.000	92.027	65°54'34"
CT	573.816	18651.957	617072.734	25.902	138°35'51"			
TC	611.932	18677.165	617044.144	24.669	138°35'51"			
IP6	646.068	18701.218	617016.863			-80.000	-68.272	48°53'47"
CT	680.204	18737.589	617017.052	26.583	89°4'2'03"			
IP7	710.569	18767.953	617017.211		72°4'116"			

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ROADWORKS AND STORMWATER DRAINAGE**

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AS CONSTRUCTED
INFORMATION CERTIFIED BY
BMD URBAN PTY LTD

SIGNED *[Signature]* DATE 19/01/13

1						
3	AS CONSTRUCTED	CR	PDW	PI		14/01/13
2	FOR CONSTRUCTION WITH ROAD 4 AMENDMENTS	CR	PDW	PI		17/05/12
1	ISSUED FOR CONSTRUCTION	LM	PDW	PI	MKB	02/04/11
No.	Amendments	Drawn	Design	Appd	Registered Engineer	Reg No. Date

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NOTES

1. ALL LEVELS GIVEN ARE TO A.H.D.
2. ALL DIMENSIONS ARE IN METRES UNLESS SHOWN OTHERWISE.
3. CHECK THE LOCATION OF ALL UNDERGROUND SERVICES PRIOR TO COMMENCEMENT OF WORK. CHECK LEVELS OF SERVICES IN CRITICAL AREAS. IT IS NOT GUARANTEED THAT ALL SERVICES HAVE BEEN SHOWN ON THE DRAWINGS.
4. OBTAIN PERMIT(S) FROM THE RELEVANT AUTHORITY AS AND WHEN REQUIRED.
5. REINSTATE ALL SURFACES UPON COMPLETION OF THE WORKS AS DIRECTED BY AND TO THE SATISFACTION OF THE SUPERINTENDENT.

CITY OF PALMERSTON

1. GIVE A MINIMUM 48 HOURS NOTICE TO THE CITY OF PALMERSTON OF INTENDED COMMENCEMENT DATE AND PROGRAMME OF WORKS. ALL NOTIFICATIONS SHALL BE IN WRITING.
2. CONTRACTOR IS RESPONSIBLE FOR 'AS CONSTRUCTED DRAWINGS' FOR ROADWORKS AND STORMWATER DRAINAGE SIGNED BY THE DEVELOPERS CONSULTANT SHALL BE LODGED WITH THE CITY OF PALMERSTON BY THE CONSULTANT PRIOR TO ACCEPTANCE OF ON MAINTENANCE.
3. ALL WORKS TO BE CARRIED OUT TO THE CITY OF PALMERSTON REQUIREMENTS.
4. ALL TOPS OF SERVICE PITS, MANHOLES, INSPECTION OPENINGS, VALVE BOXES AND OTHER SERVICES ETC, SHALL MATCH FINISHED SURFACE LEVELS AND SLOPE OF VERGES AND FOOTPATHS.
5. ALL TOPS OF SERVICE PITS, MANHOLES, INSPECTION OPENINGS, AND OTHER SERVICES ETC, LOCATED WITHIN ALLOTMENTS SHALL BE FINISHED AT A LOGICAL AND WORKABLE RELATIONSHIP TO LEVELS OF ADJACENT VERGE AND FOOTPATHS.

COUNCIL INSPECTIONS

1. AFTER THE ENGINEERING PLANS AND SPECIFICATIONS HAVE BEEN GIVEN APPROVAL BY COUNCIL, THE DEVELOPER OR THEIR REPRESENTATIVE SHALL INFORM THE COUNCIL IN WRITING OF THE NAME(S) AND ADDRESS(ES) OF PRINCIPAL CONTRACTOR(S) TO WHOM IT IS PROPOSED TO AWARD THE CONTRACT(S).

THE COUNCIL SHALL ADVISE THE DEVELOPER OR THEIR REPRESENTATIVE WHO WILL BE CARRYING OUT INSPECTION ON SITE.

IT IS ALSO THE DEVELOPER'S RESPONSIBILITY TO ENSURE THAT THE COUNCIL IS NOTIFIED OF THE COMMENCEMENT AND COMPLETION OF EACH PHASE OF WORK. WHILE AS MUCH NOTICE AS POSSIBLE IS DESIRABLE, A MINIMUM OF TWENTY FOUR (24) HOURS IS REQUIRED, EXCLUDING WEEKENDS AND PUBLIC HOLIDAYS. ALL NOTIFICATIONS SHALL BE IN WRITING.

THE DEVELOPER SHALL ARRANGE WITH THE CERTIFYING ENGINEER AND REPRESENTATIVE OF COUNCIL FOR JOINT INSPECTIONS OF WORKS WHEN EACH NEW ELEMENT OF CONSTRUCTION IS BEING PERFORMED FOR THE FIRST TIME.

2. THE DEVELOPER SHALL ALSO NOTIFY THE COUNCIL REPRESENTATIVE IN WRITING, AND AT LEAST TWENTY-FOUR HOURS IN ADVANCE, OF THE COMMENCEMENT AND COMPLETION OF EACH PHASE OF DEVELOPMENT.

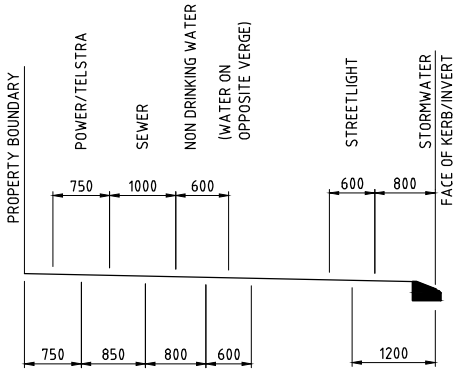
THE CERTIFYING ENGINEER SHALL CONDUCT ALL INSPECTIONS.

NORMALLY THE PHASES AT WHICH THE WORK MUST BE NOTIFIED ARE AS FOLLOWS:

- (A) PRIOR TO COMMENCEMENT OF CLEARING.
(B) SETTING OUT AND COMMENCEMENT OF EARTHWORKS.
(C) COMPLETION OF SUBSOIL DRAINAGE PRIOR TO BACKFILL.
(D) COMPLETION OF EARTHWORKS TO SUB GRADE BEFORE LAYING PAVEMENT.
(E) COMMENCEMENT OF KERB AND CHANNEL.
(F) COMMENCEMENT OF SUB-BASE.
(G) COMMENCEMENT OF BASE COURSE.
(H) PREPARATION OF SURFACING.
(I) COMMENCEMENT OF SURFACING.
(J) STORMWATER DRAINAGE - PIPE LAYING, PRIOR TO BACKFILLING AND TESTING.
(K) ALL OTHER UNDERGROUND SERVICES - BACKFILLING AND TESTING.
(L) FINAL INSPECTION.

POWER WATER CORPORATION

1. DESIGN AND CONSTRUCTION OF THE WATER AND SEWERAGE WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE POWER AND WATER CONNECTION CODE AND ASSOCIATED DOCUMENTS.
2. PRIOR TO COMMENCEMENT OF WORKS, THE CONTRACTOR SHALL CHECK THE LOCATION OF ALL EXISTING SERVICES, AND CONFIRM FINISHED SURFACE LEVELS AND INVERT LEVELS OF EXISTING STUBS TO BE INCORPORATED IN THE WORKS.
3. ALL WATER AND SEWERAGE (HYDRAULIC) WORKS SHALL BE CARRIED OUT AS SHOWN ON THE LATEST AMENDMENT OF THE DESIGN DRAWINGS.
4. CONSTRUCTION SITE DRAWINGS MUST BE SIGNED AS "APPROVED FOR CONSTRUCTION" BY A SERVICES DEVELOPMENT OFFICER.
5. SEVEN (7) DAYS NOTICE SHALL BE GIVEN TO SERVICES DEVELOPMENT, POWER AND WATER (FACSIMILE: 8924 5121 - NORTHERN REGION & 8951 7347 - SOUTHERN REGION), WITH A "NOTICE OF INTENTION TO START WORK" PRIOR TO COMMENCE
6. THE CONTRACTOR IS TO ARRANGE AND ATTEND A MEETING WITH PWC, THE HYDRAULIC CERTIFIER AND THE DEVELOPER PRIOR TO COMMENCEMENT OF WORK
7. ANY CHANGES TO THESE DRAWINGS, REQUIRED OF DESIRED DURING THE CONSTRUCTION PHASE, MUST BE AUTHORISED BY A SERVICE DEVELOPMENT OFFICER
8. CONTRACTOR IS RESPONSIBLE FOR 'AS CONSTRUCTED' DRAWINGS FOR WATER AND SEWER MUST BE PROVIDED TO SERVICES DEVELOPMENT, POWER AND WATER PRIOR TO HANDOVER INSPECTION. ENSURE ALL AS CONSTRUCTED INFORMATION HAS BEEN PICKED UP BY THE SURVEYOR PRIOR TO BACKFILLING.
9. 'AS CONSTRUCTED' DRAWINGS TO BE CERTIFIED BY THE CERTIFYING ENGINEER. 'AS CONSTRUCTED' SURVEY BY A REGISTERED SURVEYOR.
10. DESIGNER TO CONTACT SERVICES DEVELOPMENT, POWER AND WATER TO ARRANGE FOR HANDOVER INSPECTIONS. SEVEN (7) DAYS NOTICE MUST BE PROVIDED PRIOR TO HANDOVER INSPECTIONS.
11. CONNECTIONS TO EXISTING WATER AND SEWER MAINS WILL ONLY BE CARRIED OUT WHEN ALL WORKS UPSTREAM OF THE CONNECTION ARE COMPLETE (IE. TESTED, DISINFECTED WHERE APPLICABLE, BACKFILLED AND CERTIFICATES SUBMITTED) IN ACCORDANCE WITH THE APPROVED DESIGN DRAWINGS, AND HAVE SATISFACTORILY PASSED FINAL HANDOVER INSPECTION.
12. AT THE DEVELOPERS COST, POWER AND WATER SHALL PROVIDE A CONNECTION POINT ON EXISTING MAIN (S) WITH A BLANK FLANGE PRIOR TO CONSTRUCTION OF NEW WATERMAIN.
13. POWER AND WATER PERSONNEL SHALL CONNECT ALL WATER AND SEWER TO EXISTING MAINS ONLY AFTER ACCEPTANCE OF THE WORK HAS BEEN ACHIEVED. THE CONSTRUCTOR IS RESPONSIBLE FOR ALL CONNECTION FEES, MATERIALS AND LABOUR FOR EXCAVATION, BACKFILLING AND REINSTATEMENT.
14. AT NO STAGE SHALL ANY CONTRACTOR BE ALLOWED TO CARRY OUT WORK ON PWC INFRASTRUCTURE.
15. AT LEAST SEVEN (7) WORKING DAYS NOTICE MUST BE PROVIDED TO SERVICES DEVELOPMENT, POWER AND WATER FOR APPLICATION OF A CERTIFICATE OF FINAL COMPLIANCE/DEVELOPMENT PERMIT CLEARANCE ALLOWING FOR AN INSPECTION AND REPORT OF OUTSTANDING DEFECTS/ISSUES. UPON NOTICE TO SERVICES DEVELOPMENT THAT RECTIFICATION OF OUTSTANDING DEFECTS/ISSUES HAS BEEN ADDRESSED, AND ADDITIONAL SEVEN (7) WORKING DAYS SHOULD BE ALLOWED FOR.
16. ALL WORKS SHALL HAVE A DEFECTS PERIOD OF 2 YEARS FROM DATE OF ACCEPTANCE FROM PWC.
17. CONTRACTOR TO CONTACT SUPERINTENDENT FOR INSPECTION OF TRENCH BASE, BEDDING, PIPE INSTALLATION BACKFILL.



TYPICAL ALLOCATION DETAIL

N.T.S

NOTE: REFER LANDSCAPE DRGS FOR TREE ALIGNMENT AND ROOT BARRIER DETAILS

ROADS & DRAINAGE

- R1. ALL LEVELS SHOWN ARE TO AUSTRALIAN HEIGHT DATUM AND ALL SETTING OUT CO-ORDINATES ARE TO PLAN AMG.
- R2. SETTING OUT AND LEVELLING REFERENCE POINTS FOR KERBING IS SHOWN ON THE DRAWINGS.
- R3. GRADE FINISHED SURFACE EVENLY BETWEEN LEVELS SUPPLIED.
- R4. PAVEMENT LEVELS ARE GIVEN AT QUARTER POINTS ON RADII LESS THAN 20m AND AT 5m CENTRES ELSEWHERE UNLESS SHOWN OTHERWISE.
- R5. WHERE CONSTRUCTION JOINS EXISTING SAW CUT BACK 150mm MIN. INTO SOUND UNCONTAMINATED PAVEMENT MATERIAL AND MAKE GOOD.
- R6. LINEMARKING & SIGNPOSTING SHALL BE IN ACCORDANCE WITH AS 1742. LINEMARKING SHALL BE 100mm WIDE AND WHITE IN COLOUR U.N.O.
- R7. TOP OF DRAINAGE STRUCTURES SHALL BE FINISHED SUCH THAT COVERS AND SURROUNDS MATCH THE ADJACENT FINISHED SURFACE LEVEL AND SLOPE.
- R8. DRAINAGE PIPES SHALL BE R.C.P. CLASS '2' WITH EXTERNAL BANDAGE JOINTS UNLESS SHOWN OTHERWISE.
- R9. DRAINAGE STRUCTURES SETTING OUT REFER TO:-
a) SEP's - CENTRE OF MAIN CHAMBER AT INVERT LINE
b) LETTERBOX PIT - CENTRE OF PIT
c) HEADWALL - CENTRE OF HEADWALL
- R10. GRATED INLET PITS ARE PROPOSED IN PRIVATE PROPERTIES ONLY. NOMINAL OPENING SIZE TO BE AS SHOWN. CHAMBER TO BE PRECAST OR CAST INSITU TO SUPERINTENDENTS APPROVAL. PIT GRATES SHALL BE GENERALLY LIGHT DUTY. MEDIUM DUTY / BICYCLE SAFE GRATES ARE REQUIRED WITHIN FOOTPATHS AND ROADWAYS.
- R11. LETTERBOX PITS TO BE AS PER DPI STD DRG EXCEPT HORIZONTAL BARS SHALL BE PROVIDED AT 100mm CENTRES.
- R12. WHERE CAPPED PIPES ARE SHOWN FOR FUTURE DRAINAGE CONNECTIONS, TIMBER END CAPS ARE NOT PERMITTED.
- R13. REFER TO STANDARD DRAWINGS DCC-106 AND CS1100 FOR STORMWATER PIPE LAYING DETAILS. SUPERINTENDENT TO CONFIRM STORMWATER PIPE BEDDING AND BACKFILL TYPES ON SITE.

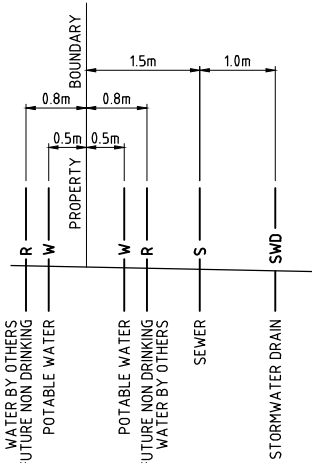
SETOUT

- ST1. TO ASSIST THE PLAN SETOUT FOR THIS PROJECT, A DIGITAL COPY OF THESE ENGINEERING DRAWINGS WILL BE MADE AVAILABLE FOR USE BY THE PROJECT SURVEYOR. ALL DRAWING NOTATION TAKES PRECEDENCE OVER ALL DIGITAL INFORMATION PROVIDED.

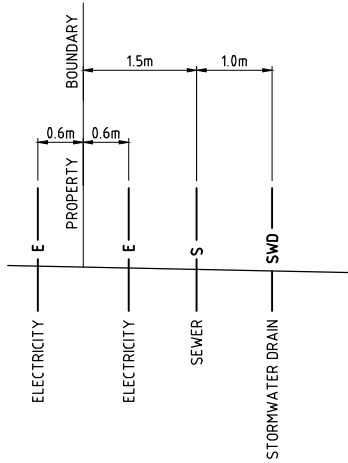
- ST2. FOR ALL LANDSCAPING & FOOTPATH SETOUT AND OTHER DETAILS, REFER LANDSCAPE DRGS. LEVELS SHOWN ON THESE ENGINEERING DRGS APPLY.

EARTHWORKS

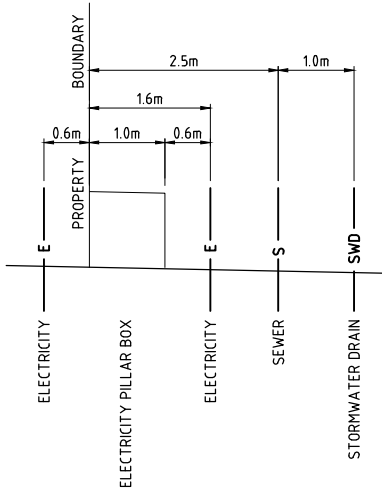
FOR EARTHWORKS NOTES SEE SHEET CE003



PLAN A



PLAN B



PLAN C

TYPICAL SERVICE LOT CONNECTION DETAILS

N.T.S

NOTE: ALL WATER & SEWER CONNECTIONS OFFSETS FROM BOUNDARY SHALL BE AS PER PWC STD DRAWINGS UNLESS NOTED OTHERWISE ON PLAN DRGS.

ABBREVIATIONS

AC	ACCESS CHAMBER	MS	MAINTENANCE SHAFT
A/G	ABOVE GROUND	NIC	NOT IN CONTRACT
BM	BENCHMARK	NTS	NOT TO SCALE
CT	CURVE TO TANGENT	ODD	OPEN UNLINED DRAIN
DE	WATERMAIN DEAD END	PP	POWER POLE
DICL	DUCTILE IRON CEMENT LINED	PVC	uPVC PIPEWORK
DN	NOMINAL BORE	RCBC	REINFORCED CONCRETE BOX CULVERT
D/S	DOWNSTREAM	RCP	REINFORCED CONCRETE PIPE
EW	ENDWALL	RL	REDUCED LEVEL
FH	FIRE HYDRANT	RRJ	RUBBER RING JOINT
FL	FLANGED JOINT	SEP	SIDE ENTRY PIT
FSL	FINISHED SURFACE LEVEL	SL	SURFACE LEVEL
HD	HEAVY DUTY	SO	SOCKET
HW	HEADWALL	SP	SPIGOT
GIP	GRATED INLET PIT	STN	SURVEY STATION
GP	GUIDE POST	SV	SLUICE VALVE
GPT	GROSS POLLUTANT TRAP	TC	TANGENT TO CURVE
IL	INVERT LEVEL	TMS	TERMINAL MAINTENANCE SHAFT
INCL	INCLUSIVE	TP	TANGENT POINT
IP	INTERSECTION POINT	TPIT	TELSTRA PIT
LBP	LETTER BOX PIT	U/G	UNDER GROUND
LD	LIGHT DUTY	UNO	UNLESS NOTED OTHERWISE
MH	MANHOLE	U/S	UPSTREAM
MMDD	MAXIMUM MODIFIED DRY DENSITY		

TELSTRA

- T1. THE CONTRACTOR IS REQUIRED TO LIASE WITH TELSTRA TO COORDINATE WORKS. APPLICATION WITH 'TELSTRA SMART COMMUNITY' LODGED. REGISTRATION No. T.B.A AND AFR No. T.B.A.

EROSION AND SEDIMENT CONTROL

1. THE CONTRACTOR SHALL LIASE WITH NRETAS AND IS RESPONSIBLE FOR IMPLEMENTATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES AS PER APPROVED PLANS.
2. ADDITIONAL EROSION CONTROLS MAY BE REQUIRED DURING CONSTRUCTION AS DETERMINED BY THE SUPERINTENDENT IN CONSULTATION WITH NRETAS.

LINEMARKING AND SIGNAGE

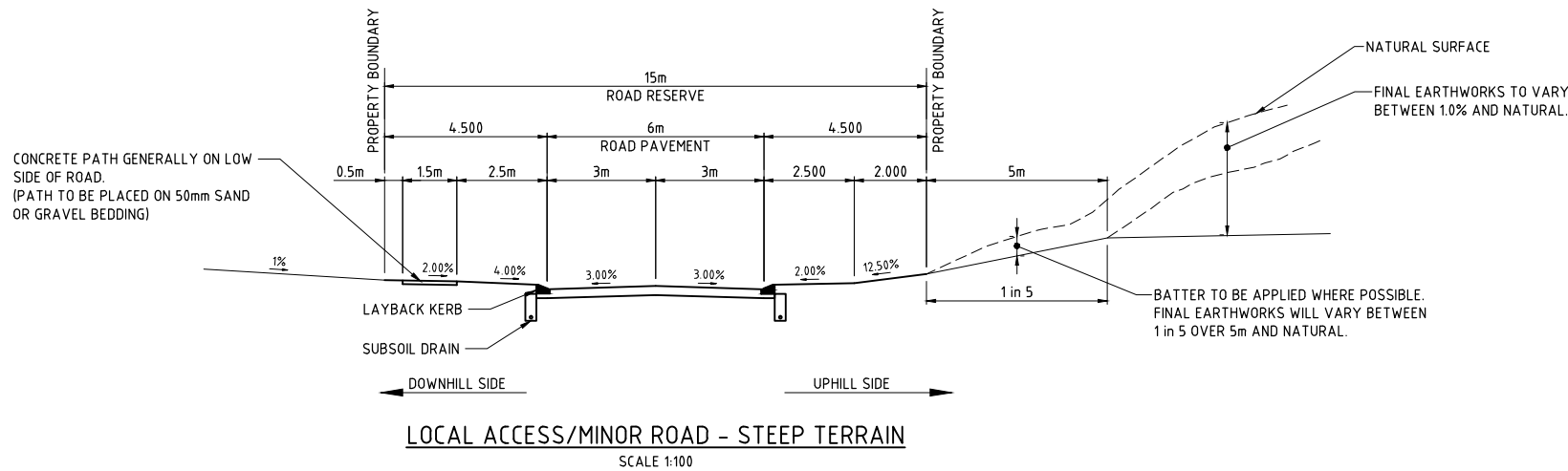
FOR LINEMARKING AND SIGNAGE NOTES SEE DRAWING CR032

2	AS CONSTRUCTED	CR	PDW	PI			14/01/13
1	ISSUED FOR CONSTRUCTION	LM	PDW	PI	----	----	02/04/12
No.	Amendments	Drawn	Design	Appd	Registered Engineer	Reg No.	Date
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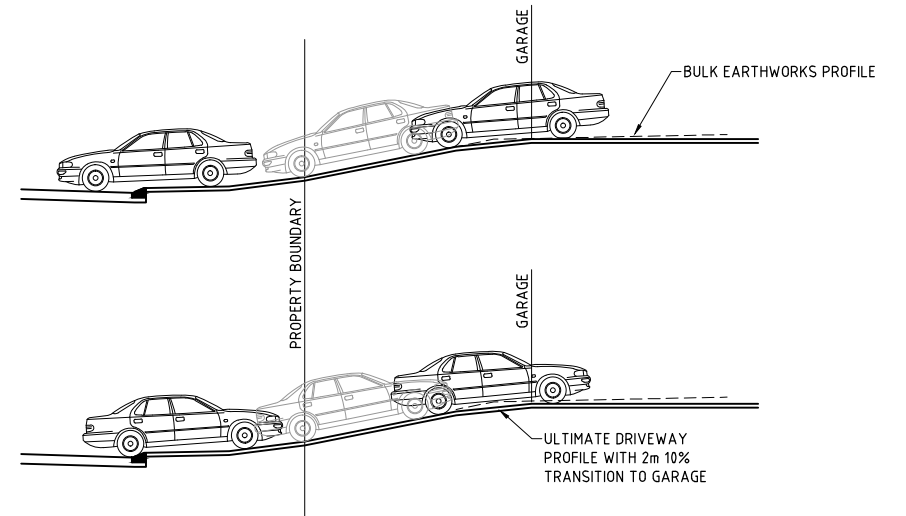


Client	LAND DEVELOPMENT CORPORATION/URBEX	Datum	AHD PSM . RL . (MGA) COORD
Project		ZUCCOLI - PHASE 1.1	
Title	GENERAL NOTES	AS CONSTRUCTED	
		Project No.	Drawing No.
		B00039-CG007	Rev 2

Proj Date: 15/01/2013 9:40:41 AM User: CHRIS ROWE File Name: B:\urbex - consulting\URBEX\B00039 - zuccoli - stage 1\4 civil.dwg\1:2 current\B00039-GA.DET

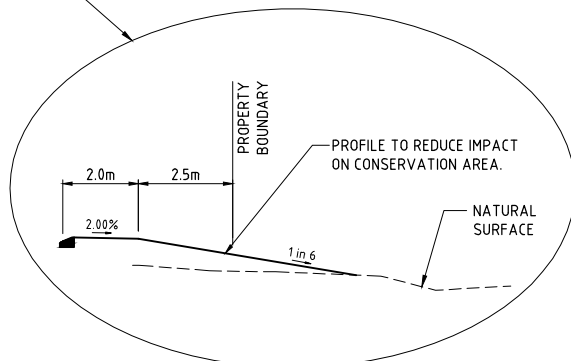
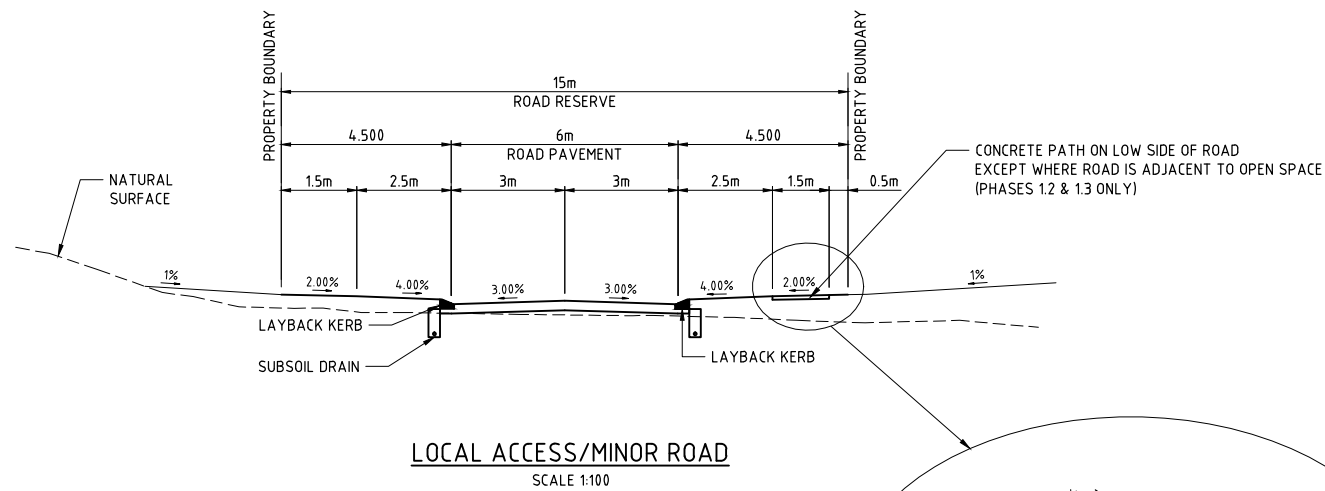


(CROSS SECTION DETAILED TO RESPOND
TO THE PHYSICAL CHARACTERISTICS OF THE SITE.)



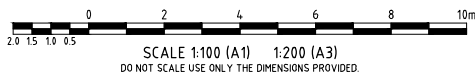
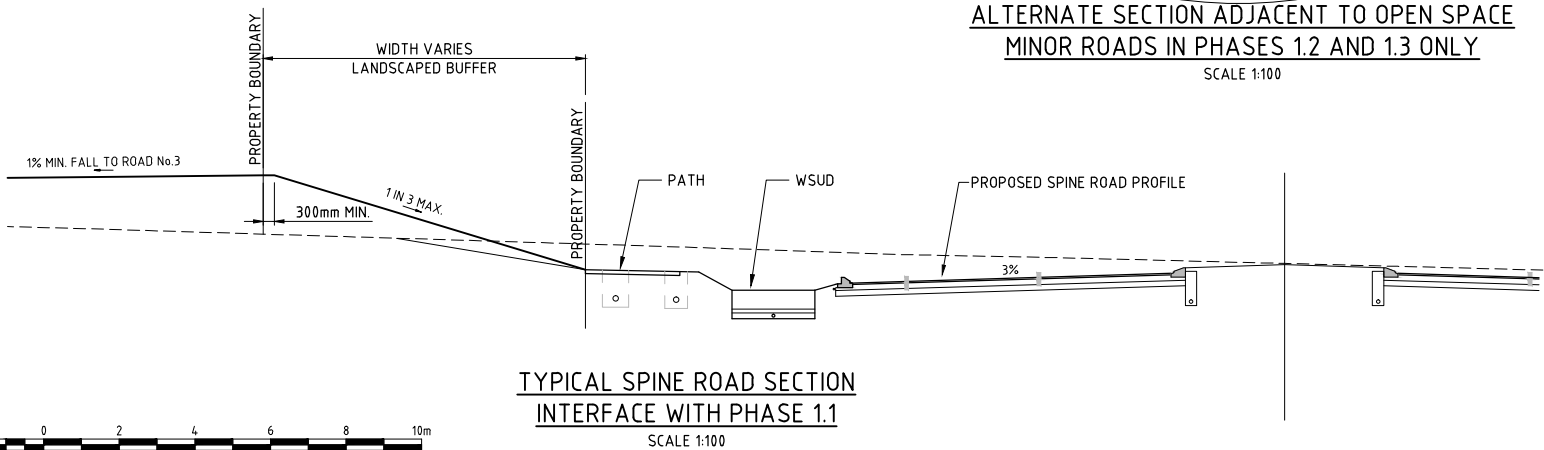
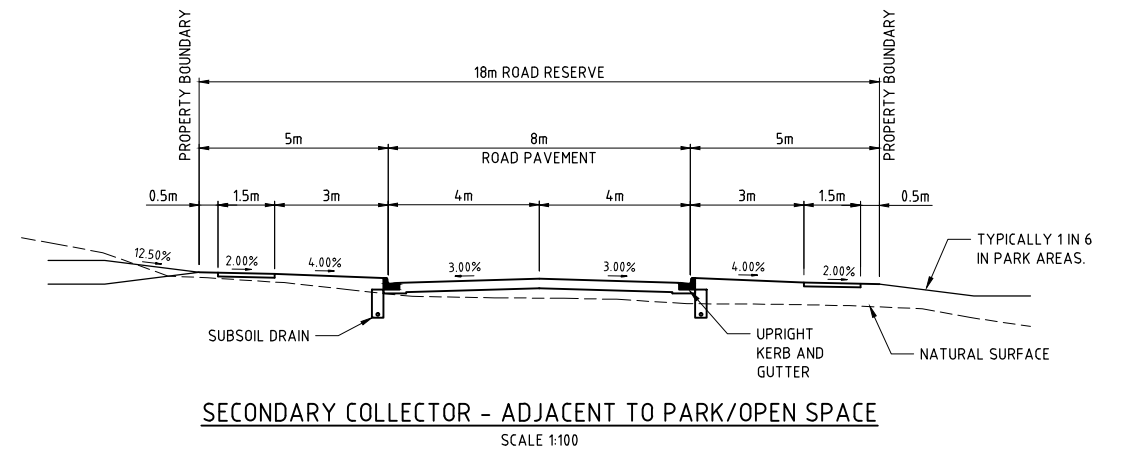
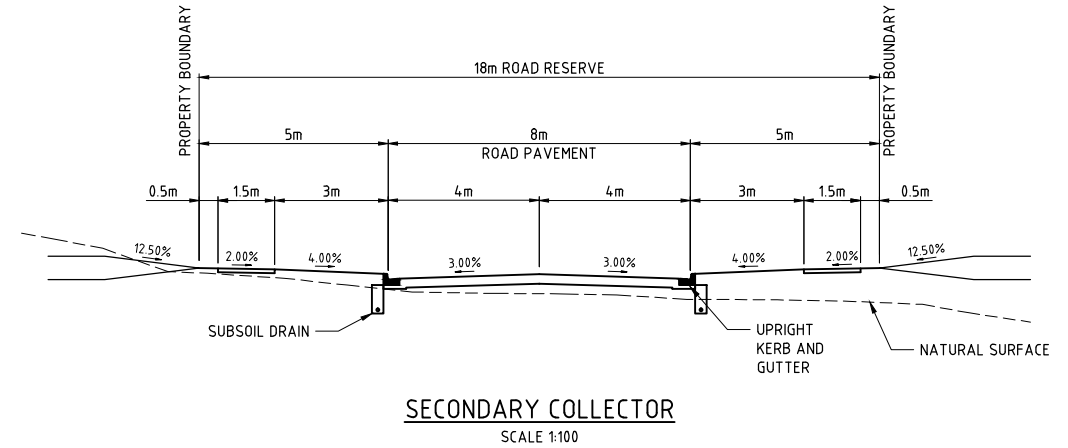
VEHICULAR PROFILE ON MINOR ROAD
STEEP TERRAIN SECTION

SCALE 1:100



ALTERNATE SECTION ADJACENT TO OPEN SPACE
MINOR ROADS IN PHASES 1.2 AND 1.3 ONLY

SCALE 1:100



No.	Amendments	Drawn	Design	Appd	Registered Engineer	Reg No.	Date
2	AS CONSTRUCTED	CR	PDW	PI			14/01/13
1	ISSUED FOR CONSTRUCTION	LM	PDW	PI	MKB		02/04/12

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BMD consulting

25 Cambridge Parade Mundy QLD 4178
PO Box 167 Mundy QLD 4178
P: 07 3858 7000 F: 07 3858 4088
E: helen@bmd.com.au
www.bmd.com.au
ABN 28 010 743 882

SGS

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Client	LAND DEVELOPMENT CORPORATION/URBEX	Datum	AHD
Project	ZUCCOLI - PHASE 1.1	PSM	.
Title	TYPICAL SECTIONS	RL	(MGA) COORD
Project No.	B00039-CG008	Drawing No.	2



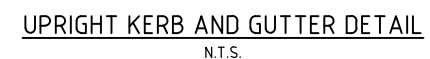
(SUITABLE FOR UNDER ROAD IF REQUIRED)
NOTE: ENSURE SUBSOIL PIPE FALLS TO PIT OR SUBSOIL DRAIN BEHIND KERB



NOTE: WHEN LOCATING CONCRETE SURROUND CONTRACTOR TO TAKE INTO CONSIDERATION LOCATION OF SERVICES AND LOT ACCESSSES.



NOTE:-
SUBSOIL DRAIN CONNECTION TO STORMWATER PITS SHALL BE
SIMILAR TO SUBSOIL CONNECTION DETAIL ON D.C.C. STD DRG DCC-106

[illegible]

BMD
consulting

35 Cambridge Parade, Marley QLD 4179
PO Box 197, Marley QLD 4178
P: 07 3695 7000 F: 07 3695 4086
E: enquiries@bmd.com.au
www.bmd.com.au

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<i>Client</i>	LAND DEVELOPMENT CORPORATION/URBEX	<i>Date</i>	1/10/2018
<i>Project</i>	ZUCCOLI - PHASE 1.1	<i>AHD</i>	PSM .
<i>Title</i>	GENERAL DETAILS	<i>RL</i>	(MGA) COORD
		AS CONSTRUCTED	
		<i>Project No.</i>	<i>Drawing No.</i>
		B00039-CG009	2