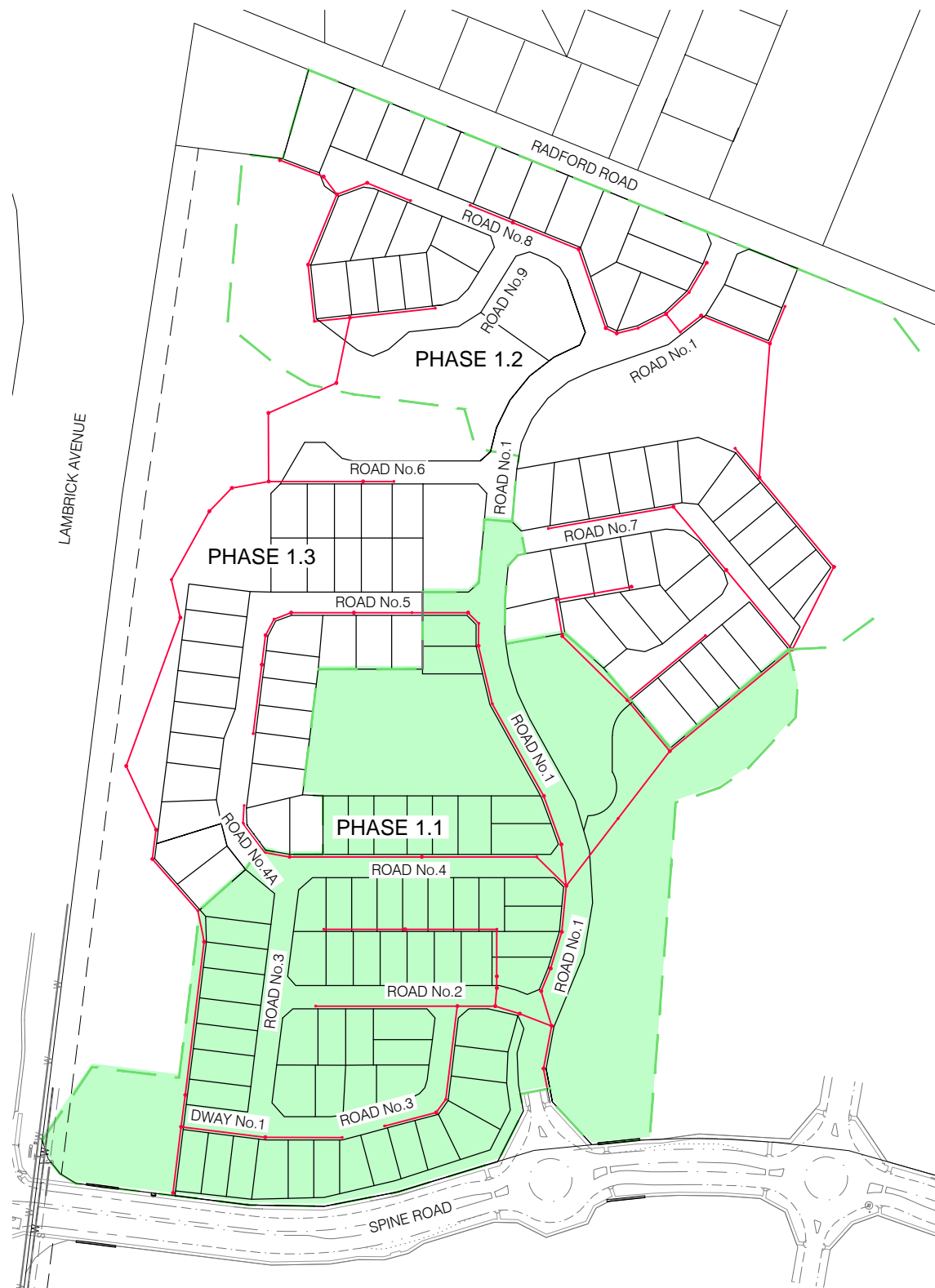


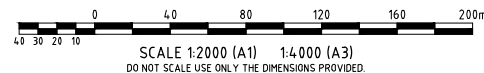
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User: CHRIS ROWE  
Plot Date: 15/07/2013 9:36:54 AM



SEWERAGE RETICULATION  
LOCALITY PLAN  
SCALE 1:2000

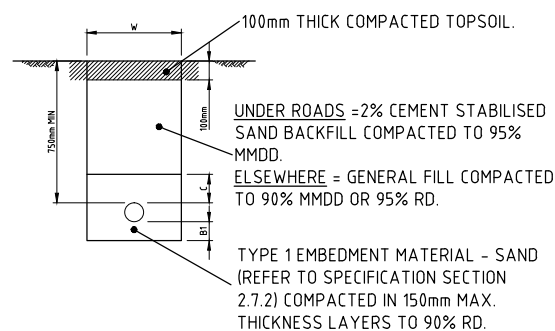
LEGEND

SEWERAGE RETICULATION



NOMINAL PIPE DIAMETER (DN)	W (mm)
100 & 150	450
200-300	600
375	750
450	900
450-900	PIPE OD + 600
1050-1500	PIPE OD + 700
1650-4000	1.5 x PIPE OD

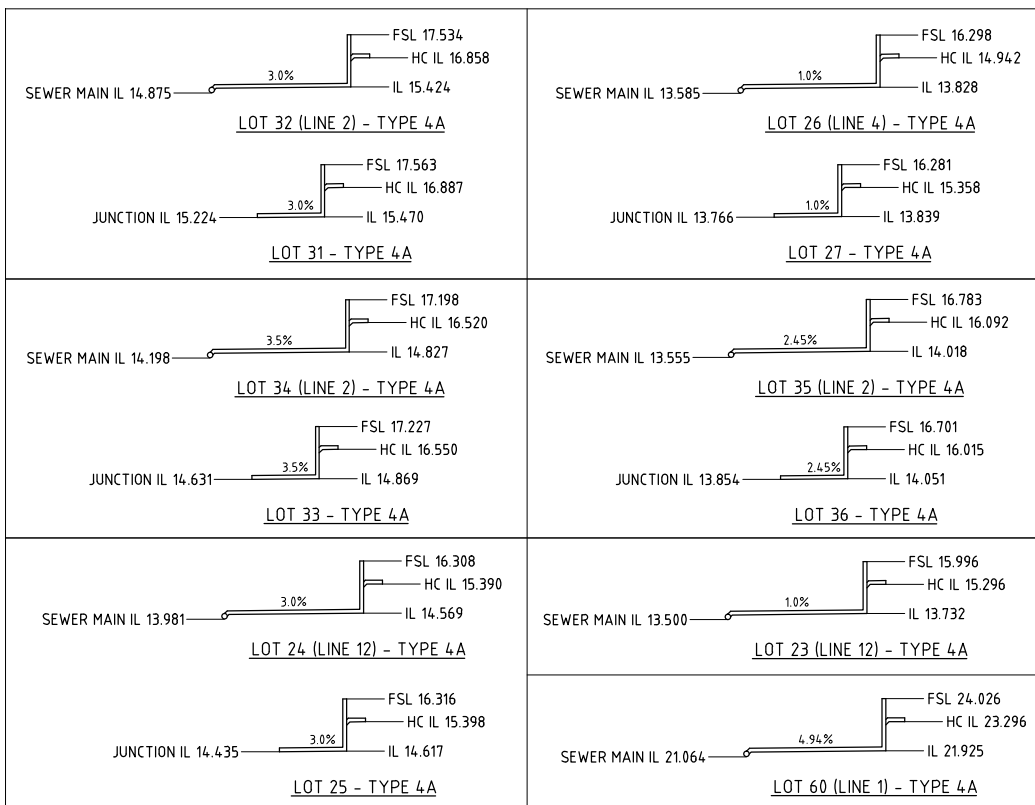
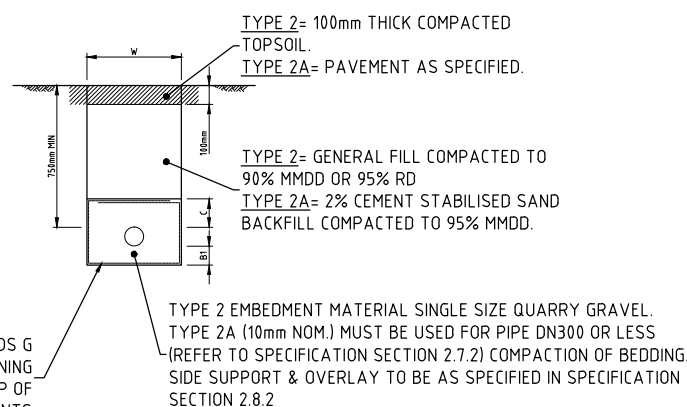
NOMINAL PIPE SIZE (mm)	B1 (mm)	C (mm)
20-50	50	75
80-100	75	75
150-600	100	100
750 & LARGER	100	100



NOMINAL PIPE DIAMETER (DN)	W (mm)
100 & 150	450
200-300	600
375	750
450	900
450-900	PIPE OD + 600
1050-1500	PIPE OD + 700
1650-4000	1.5 x PIPE OD

NOMINAL PIPE SIZE (mm)	B1 (mm)	C (mm)
20-50	100	150
80-100	100	150
150-600	150	150
750 & LARGER	200	200

GEOTEXTILE FABRIC WITH AUSTRROADS G RATING OF 1200 MIN. & NOMINAL OPENING SIZE 220uM MAX. MINIMUM OVERLAP OF 500mm AT ALL JOINTS



CROSS ROAD SEWER HOUSE CONNECTIONS (TYPE 4, 4A)  
NOT TO SCALE

NOTES:

- ALL GRAVITY SEWER PIPES SHALL BE DN 150 OR DN 225 uPVC CLASS SN8 WITH STYRENE-BUTADIENE RUBBER JOINTS (SBR), UNLESS NOTED OTHERWISE.
- SEWERS SHALL BE OFFSET FROM PROPOSED PROPERTY BOUNDARIES A DISTANCE OF 1.6m IN ROAD RESERVES AND 1.5m IN PRIVATE PROPERTY, EXCEPT WHERE SHOWN OTHERWISE ON THE DRAWINGS.
- TOPS OF ACCESS CHAMBERS SHALL FINISH AT:  
a) FINISHED SURFACE LEVELS ON ROADS AND FOOTPATHS.  
b) 150mm ABOVE FINISHED SURFACE LEVEL IN PRIVATE PROPERTY AND OPEN SPACE (BACKFILL TO BE GRADED AT 1 IN 10 FROM CHAMBER TO FINISHED SURFACE LEVEL)
- SURFACE LEVELS AT CHAMBER TOPS AS SHOWN ON LONGITUDINAL SECTIONS ARE TO BE CHECKED BY THE CONTRACTOR AGAINST ACTUAL SURFACE LEVEL FOR CONFORMITY WITH NOTE S3 BEFORE CONSTRUCTION.
- DEPTH TO INVERT IS CALCULATED FROM THE TOP OF ACCESS CHAMBER.
- WHERE CONNECTION TO AN EXISTING SERVICE IS REQUIRED, THE CONTRACTOR SHALL VERIFY THE LEVEL AND POSITION OF THE EXISTING SERVICE TO ENSURE CONFORMITY WITH THESE DRAWINGS PRIOR TO PROCEEDING WITH THE EXCAVATION FOR THE NEW SERVICE.
- MINIMUM COVER TO SEWER MAIN & SERVICES SHALL BE  
a) 750mm UNDER TRAFFICABLE AREAS (INCLUDES ROAD RESERVE).  
b) 600mm AT OTHER LOCATIONS.
- THE CONTRACTOR SHALL INSCRIBE THE CHAMBER TOP WITH THE IDENTIFYING NUMBER AS SHOWN ON THE DRAWINGS.
- SEWER PIPE BEDDING TYPE SHALL BE DETERMINED BY THE SUPERINTENDENT IN CONSULTATION WITH GEOTECHNICAL ENGINEER AFTER INSPECTION OF EXCAVATED TRENCH. TYPE 2A BEDDING SHALL HAVE GEOTEXTILE FABRIC. **ALL ROAD CROSSINGS SHALL BE BACKFILLED TO A STRINGENT COMPACTION STANDARD, USING A NATURAL GRAVEL FOR THE FULL WIDTH OF THE TRENCH TO SUBGRADE LEVEL.**
- A MINIMUM VERTICAL CLEARANCE OF 300mm SHALL BE PROVIDED AT ALL SERVICES. A MINIMUM HORIZONTAL CLEARANCE OF 600mm IS REQUIRED.
- ACCESS CHAMBER LIDS SHALL BE ORIENTATED WITH LONG SIDE PARALLEL TO DIRECTION OF DOWNSIDE PIPE.
- ALL SEWER MAINS SHALL BE SUBJECT TO CCTV INSPECTION IN ACCORDANCE WITH PWC CONNECTION CODE.
- UNDERTAKE 2 DISTORTION TESTS OF MAINS, ONE 3 MONTHS AFTER COMPLETION AND THE SECOND AFTER THE FIRST WET SEASON.
- CONTRACTOR TO VERIFY GEOTECHNICAL CONDITIONS PRIOR TO INSTALLATION OF BEDDING REQUIREMENTS WITH SUPERINTENDENT.
- PROVIDE CEMENT STABILISED BACKFILL UNDER DRAINAGE PATHS OR OPEN DRAINS.
- THE DISTANCE TO DOWNSIDE MANHOLE IS THE PERPENDICULAR DISTANCE TO THE MAIN FROM THE LOT CONNECTION.
- TRENCHSTOPS OR BULKHEADS TO BE CONSTRUCTED IN ACCORDANCE WITH WSAA STANDARD DRAWING SEW-1206 WHERE SEWER GRADE EXCEEDS 5%.
- PWC PROVIDED APPROVAL IN PRINCIPLE FOR THE ENCROACHMENT OF STORMWATER DRAINAGE TO LOT 42, 43, 44, 45, 46, 47, 48 AND 49 THROUGH THE SEWERAGE EASEMENT. THE DEVELOPER WILL REQUIRE EASEMENT ENCROACHMENT AGREEMENTS TO BE SIGNED OFF FOR EACH OF THE LOTS AND THE DEVELOPER IS REQUIRED TO CONTACT THE OWNERS.

AS CONSTRUCTED  
INFORMATION CERTIFIED BY  
BMD URBAN PTY LTD  
SIGNED: *[Signature]* DATE: 19/01/13

NOTE:-  
FOR AS-CONSTRUCTED HOUSE CONNECTION LEVELS REFER TO SEWERAGE RETICULATION LAYOUT PLANS.

WARNING  
BEWARE OF SERVICES

THE LOCATIONS OF ALL EXISTING SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

On behalf of WATER SERVICES, for incorporation into POWER WATER CORP'S network.  
THIS DRAWING IS APPROVED FOR THE CONSTRUCTION OF ALL WATER & SEWER COMPONENTS AS SHOWN ON THE DRAWINGS  
This approval does not relieve the developer and consultant from full responsibility for the correctness of the design and associated documents  
This drawing is valid only for 2 years from date of signing

SIGNED ELLA PATTERSON DATE 31/05/2012

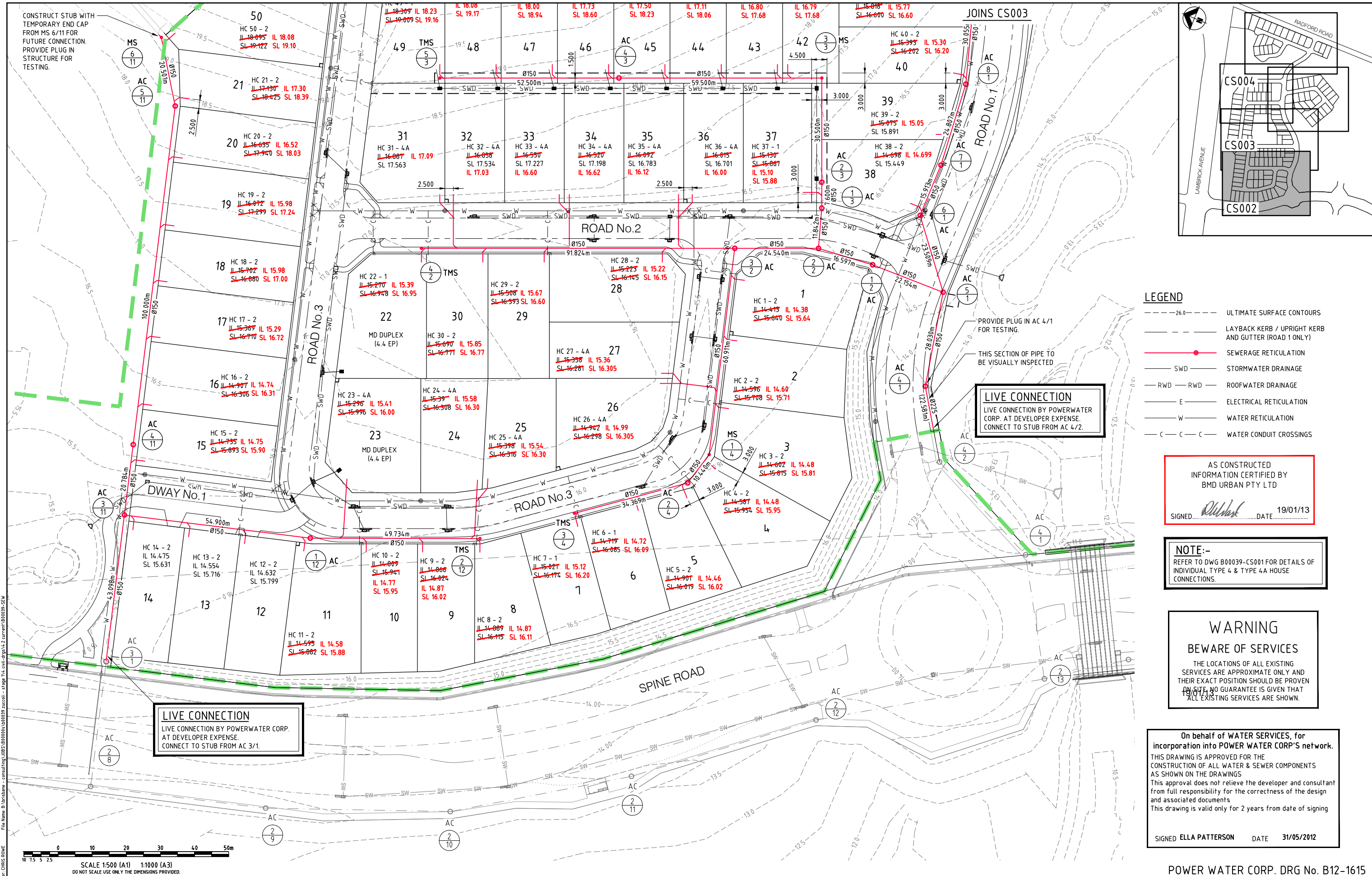
POWER WATER CORP. DRG No. B12-1614

4	AS CONSTRUCTED	CR	PDW	PI		14/01/13
3	HOUSE CONNECTIONS REVIEWED FOR CONSTRUCTION	NP	NP	PI		31/07/12
2	FOR CONSTRUCTION WITH ROAD 4 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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Client	LAND DEVELOPMENT CORPORATION/URBEX	Datum	AHD
Project	ZUCCOLI - PHASE 1.1	PSM	RL
Title	SEWERAGE RETICULATION LOCALITY AND NOTES	(MGA) COORD	
Project No.	B00039-CS001	Drawing No.	4



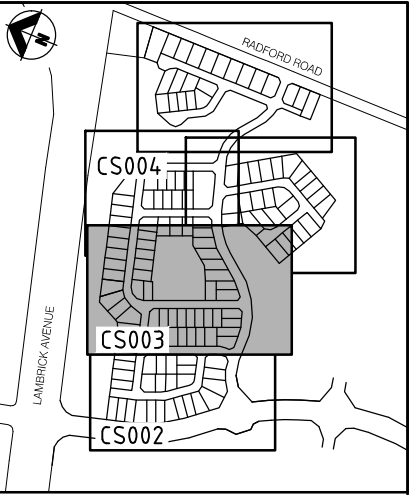
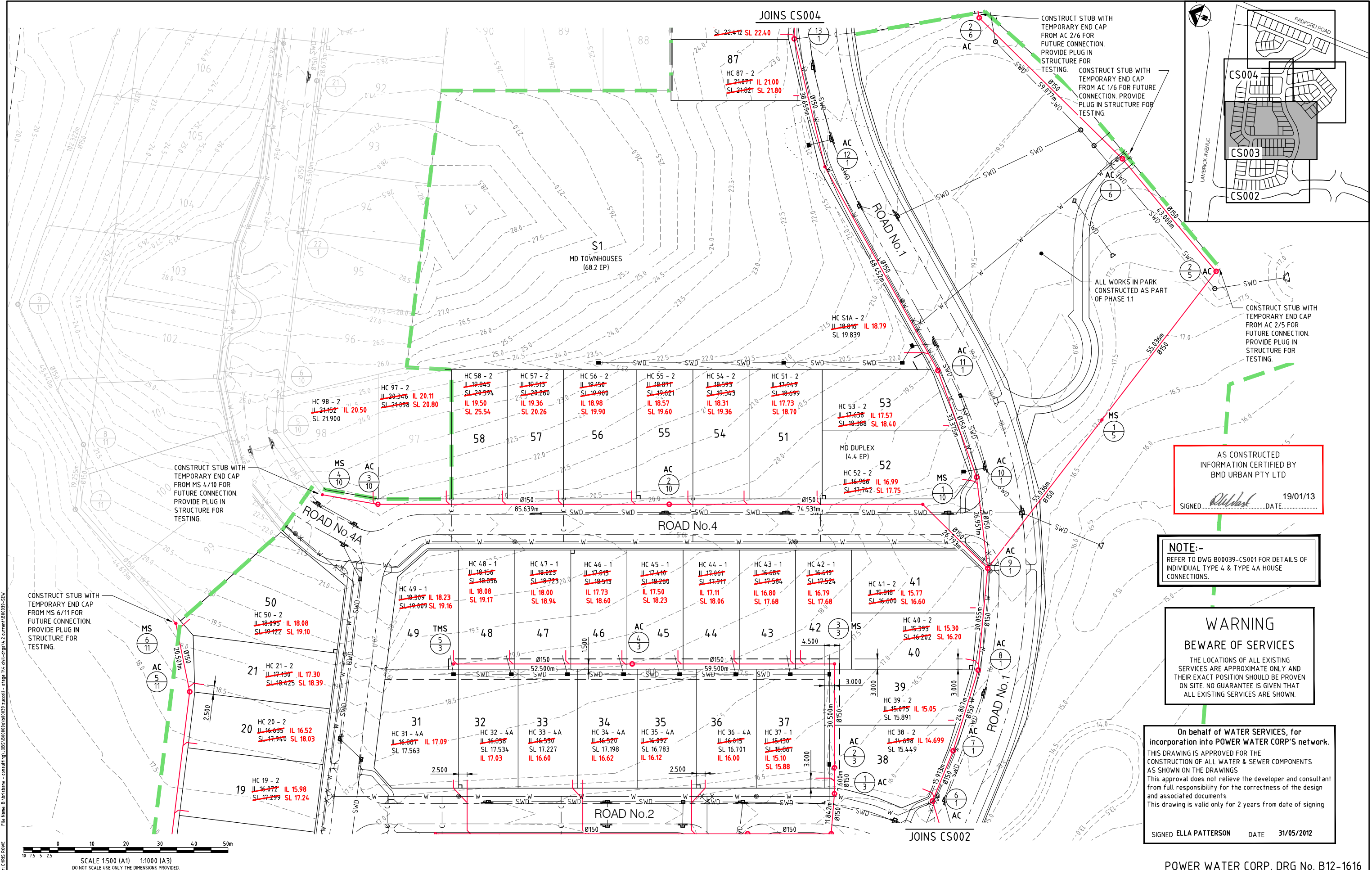
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3	HOUSE CONNECTIONS REVIEWED FOR CONSTRUCTION	NP	NP	PI		31/07/12
2	FOR CONSTRUCTION WITH ROAD 4 AMENDMENTS	CR	PDW	PI		17/5/12
1	ISSUED FOR CONSTRUCTION	LM	PDW	PI	MKB	02/04/12
No.	Amendments	Drawn	Design	Appd	Registered Engineer	Reg No. Date

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Client	LAND DEVELOPMENT CORPORATION/URBEX	Datum	AHD
Project	ZUCCOLI - PHASE 1.1	PSM	RL
Title	SEWERAGE RETICULATION LAYOUT PLAN SHEET 1 OF 3	(MGA) COORD	
		AS CONSTRUCTED	
		Project No.	B00039-CS002
		Drawing No.	4





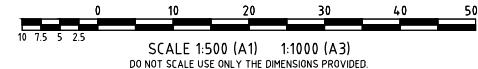
AS CONSTRUCTED  
INFORMATION CERTIFIED BY  
BMD URBAN PTY LTD  
SIGNED: *[Signature]* DATE: 19/01/13

**NOTE:-**  
REFER TO DWG B00039-CS001 FOR DETAILS OF  
INDIVIDUAL TYPE 4 & TYPE 4A HOUSE  
CONNECTIONS.

**WARNING**  
**BEWARE OF SERVICES**  
THE LOCATIONS OF ALL EXISTING  
SERVICES ARE APPROXIMATE ONLY AND  
THEIR EXACT POSITION SHOULD BE PROVEN  
ON SITE. NO GUARANTEE IS GIVEN THAT  
ALL EXISTING SERVICES ARE SHOWN.

On behalf of WATER SERVICES, for  
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AS SHOWN ON THE DRAWINGS  
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associated documents  
This drawing is valid only for 2 years from date of signing  
SIGNED ELLA PATTERSON DATE 31/05/2012

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4	AS CONSTRUCTED	CR	NP	PI		14/01/13
3	HOUSE CONNECTIONS REVIEWED FOR CONSTRUCTION	NP	NP	PI		31/07/12
2	FOR CONSTRUCTION WITH ROAD 4 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**

**BMD consulting**

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www.bmd.com.au

ABN 28 010 743 082

Client **LAND DEVELOPMENT CORPORATION/URBEX**

Project **ZUCCOLI - PHASE 1.1**

Title **SEWERAGE RETICULATION LAYOUT PLAN SHEET 2 OF 3**

Datum **AHD**

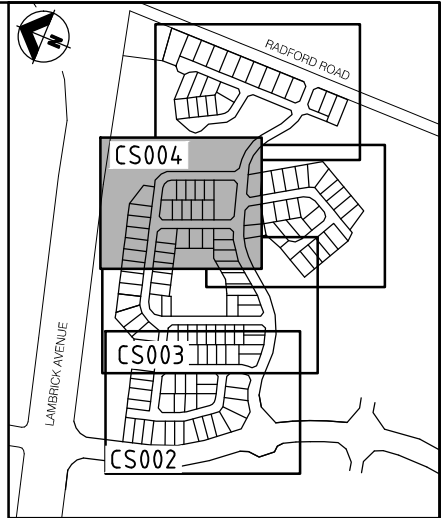
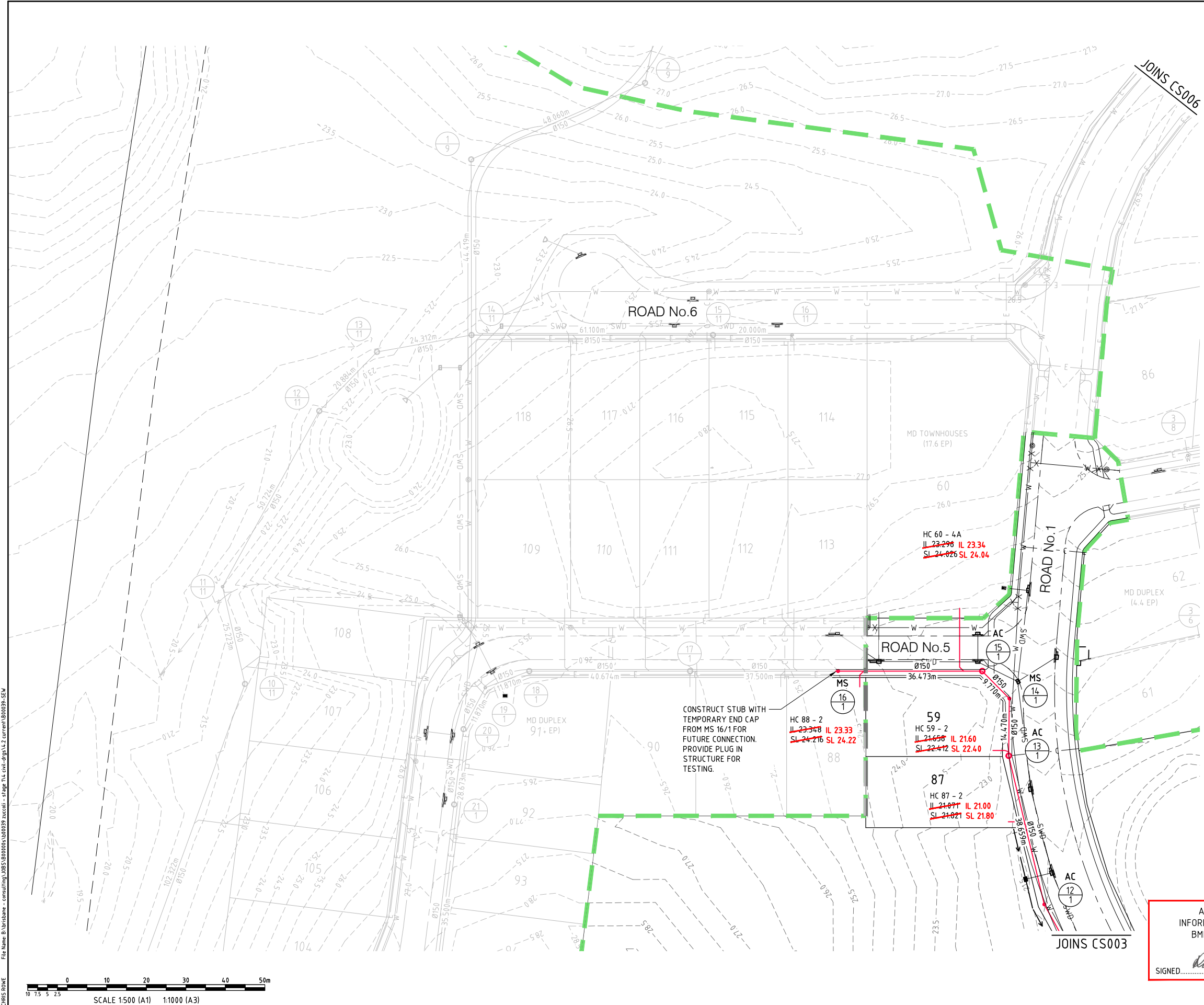
PSM **RL**

(MGA) COORD

**AS CONSTRUCTED**

Project No. **B00039-CS003**

Drawing No. **4**



- LEGEND**
- 26.0 --- ULTIMATE SURFACE CONTOURS
  - LAYBACK KERB / UPRIGHT KERB AND GUTTER (ROAD 1 ONLY)
  - SEWERAGE RETICULATION
  - SWD --- STORMWATER DRAINAGE
  - RWD --- ROOFWATER DRAINAGE
  - E --- ELECTRICAL RETICULATION
  - W --- WATER RETICULATION
  - C --- C --- WATER CONDUIT CROSSINGS

**NOTE:-**  
REFER TO DWG B00039-CS001 FOR DETAILS OF INDIVIDUAL TYPE 4 & TYPE 4A HOUSE CONNECTIONS.

**WARNING**  
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On behalf of WATER SERVICES, for incorporation into POWER WATER CORP'S network.  
THIS DRAWING IS APPROVED FOR THE CONSTRUCTION OF ALL WATER & SEWER COMPONENTS AS SHOWN ON THE DRAWINGS  
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This drawing is valid only for 2 years from date of signing

AS CONSTRUCTED  
INFORMATION CERTIFIED BY  
BMD URBAN PTY LTD  
SIGNED: *Ellie Patterson* 19/01/13  
DATE: .....

SIGNED ELLA PATTERSON DATE 31/05/2012

4	AS CONSTRUCTED	CR	NP	PI		14/01/13
3	HOUSE CONNECTIONS REVIEWED FOR CONSTRUCTION	NP	NP	PI		31/07/12
2	FOR CONSTRUCTION WITH ROAD 4 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**

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ABN 28 010 749 082

Civil Engineers • Structural Engineers • Project Managers • Water Servicing Co-ordinators  
brisbane • cairns • canberra • goldcoast • mackay • sydney • townsville

Client **LAND DEVELOPMENT CORPORATION/URBEX**  
Project **ZUCCOLI - PHASE 1.1**  
Title **SEWERAGE RETICULATION LAYOUT PLAN SHEET 3 OF 3**

Datum **AHD**  
PSM .  
RL .  
(MGA) COORD  
**AS CONSTRUCTED**  
Project No. **B00039-CS004** Drawing No. **Rev 4**



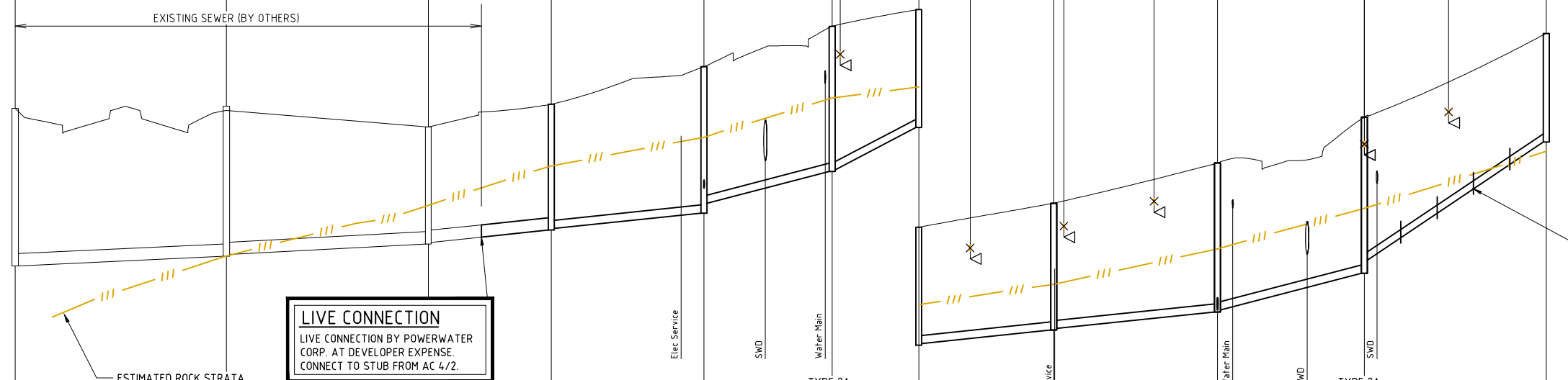
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## MANHOLE TYPES

AC ACCESS CHAMBER  
TMS TERMINAL MAINTENANCE SHAFT  
MS MAINTENANCE SHAFT

### LEGEND

- ✕ ALLOTMENT CONTROL LEVEL
- ◁ HOUSE CONNECTION



4 TRENCHSTOPS OR BULKHEADS TO BE  
CONSTRUCTED IN ACCORDANCE WITH  
WSAA STANDARD DRAWING SEW-1206  
WHERE SEWER GRADE EXCEEDS 5%  
REFER B00039-CS001 FOR DETAILS.

BEDDING/BACKFILL												
PROP. DESCRIPTION	RR	RR	RR	TYPE 1 GENERAL RR	TYPE 1 / GENERAL	CEMENT STABILISED	TYPE 1 / GENERAL	TYPE 1 / GENERAL	TYPE 1 / GENERAL	CEMENT STABILISED	TYPE 1 / GENERAL	
DIAMETER/TYPE	Ø225PVC	Ø225PVC	Ø225PVC	Ø225PVC	Ø150PVC	Ø150PVC	Ø150PVC	Ø150PVC	Ø150PVC	Ø150PVC	Ø150PVC	
GRADE (1 in)	220	193	100.00	100.00	100.00 in 100.11	100.00 in 41.24	1 in 21.22 20.57	100.00 in 112.76	100.00 in 105.46	100.00 in 39.07	15.38 in 16.05	
LENGTH	38.774	37.084	9.731	12.85	28.030	23.509	15.913	24.807	30.055	26.957	33.375	
GRADE (%)	0.45%	0.52%	1.00%	1.00%	1.00%	2.50%	4.71%	0.89%	0.95%	2.56%	6.23%	
DATUM (m)	5.0						9.0					
JUNCTION INVERT LEVEL						12.181				14.200 14.273		
DEPTH BELOW F.S.L.	2.893	2.756 2.722	2.490 2.119	2.311 2.281	2.694 2.514	2.666 2.636	2.168 2.138	2.332 2.302	2.739 2.699	2.869 2.627	1.997 1.967	
INVERT LEVEL	11.010	11.166 11.220	11.398 11.420	11.65 11.668 11.70	11.98 12.458 12.16	12.75 12.746 12.80	13.55 13.551 13.59	13.81 13.829 13.865	14.15 14.160 14.21	14.09 14.074 15.18	17.26 17.265 17.28	
FINISHED SURFACE LEVEL	13.903	13.942	13.890	13.978	14.672	15.412	15.719	16.161	16.899	17.743	19.282	
CHAINAGE	0.000	38.774	75.857	85.588	98.438	126.468	149.977	165.890	190.696	220.751	281.084	

AS CONSTRUCTED  
INFORMATION CERTIFIED BY  
BMD URBAN PTY LTD

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

On behalf of WATER SERVICES, for  
incorporation into POWER WATER CORP'S network

THIS DRAWING IS APPROVED FOR THE  
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and associated documents  
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SIGNED ELLA PATTERSON      DATE 31/05/2012

**NOTE:-**

FOR AS-CONSTRUCTED HOUSE CONNECTION  
LEVELS REFER TO SEWERAGE RETICULATION  
LAYOUT PLANS.

POWER WATER CORP. DRG No. B12-1618

DO NOT SCALE USE ONLY THE DIMENSIONS PROVIDED.						
No.	Amendments	Drawn	Design	Appd	Registered Engineer	Reg No. Date
3	AS CONSTRUCTED	CR	NP	PI		02/01/11
2	HOUSE CONNECTIONS REVIEWED FOR CONSTRUCTION	NP	NP	PI		31/07/11
1	ISSUED FOR CONSTRUCTION	LM	PDW	PI	MKB	02/04/11



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Brisbane • Cairns • Canberra • Gladstone • Gold Coast • Mackay • Sydney • Townsville



<i>Client</i>	<b>LAND DEVELOPMENT CORPORATION/URBEX</b>
<i>Project</i>	<b>ZUCCOLI - PHASE 1.1</b>
<i>Title</i>	<b>SEWERAGE RETICULATION LONGITUDINAL SECTIONS SHEET 1 OF 8</b>

Datum  
AHD  
PSM .  
RL .  
(MGA) COORD



<b>AS CONSTRUCTED</b>		
<i>Project No.</i>	<i>Drawing No.</i>	<i>Rev</i>
<b>B00039-CS007</b>		<b>3</b>

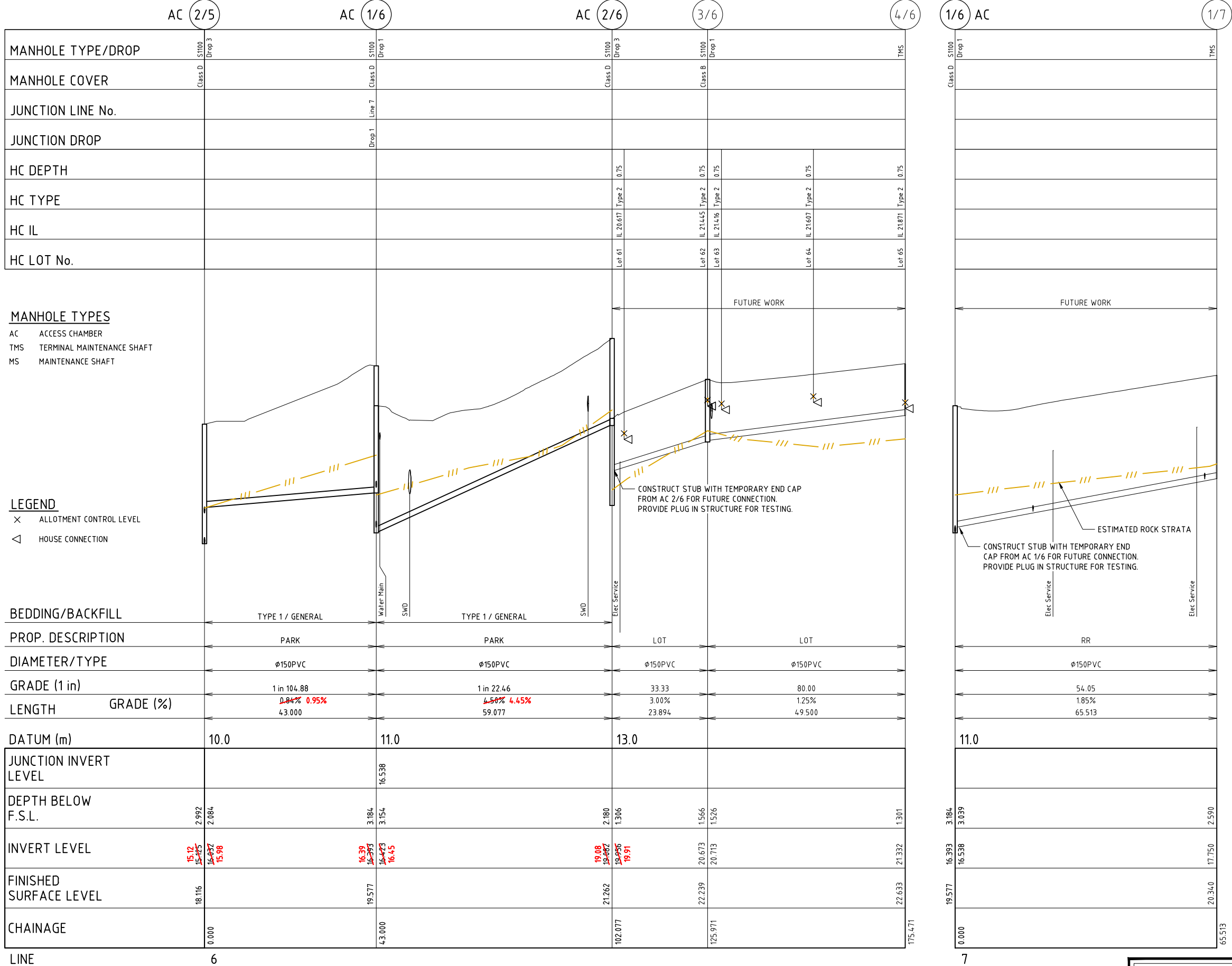








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3	AS CONSTRUCTED	CR	NP	PI		02/01/13
2	HOUSE CONNECTIONS REVIEWED FOR CONSTRUCTION	NP	NP	PI		31/07/12
1	ISSUED FOR CONSTRUCTION	LM	PDW	PI	MKB	02/04/12
No.	Amendments	Drawn	Design	Appd	Registered Engineer	Reg No. Date

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Client	LAND DEVELOPMENT CORPORATION/URBEX	Datum	AHD
Project	ZUCCOLI - PHASE 1.1	PSM	RL
Title	SEWERAGE RETICULATION LONGITUDINAL SECTIONS SHEET 5 OF 8	(MGA) COORD	
Project No.	B00039-CS011	Drawing No.	3

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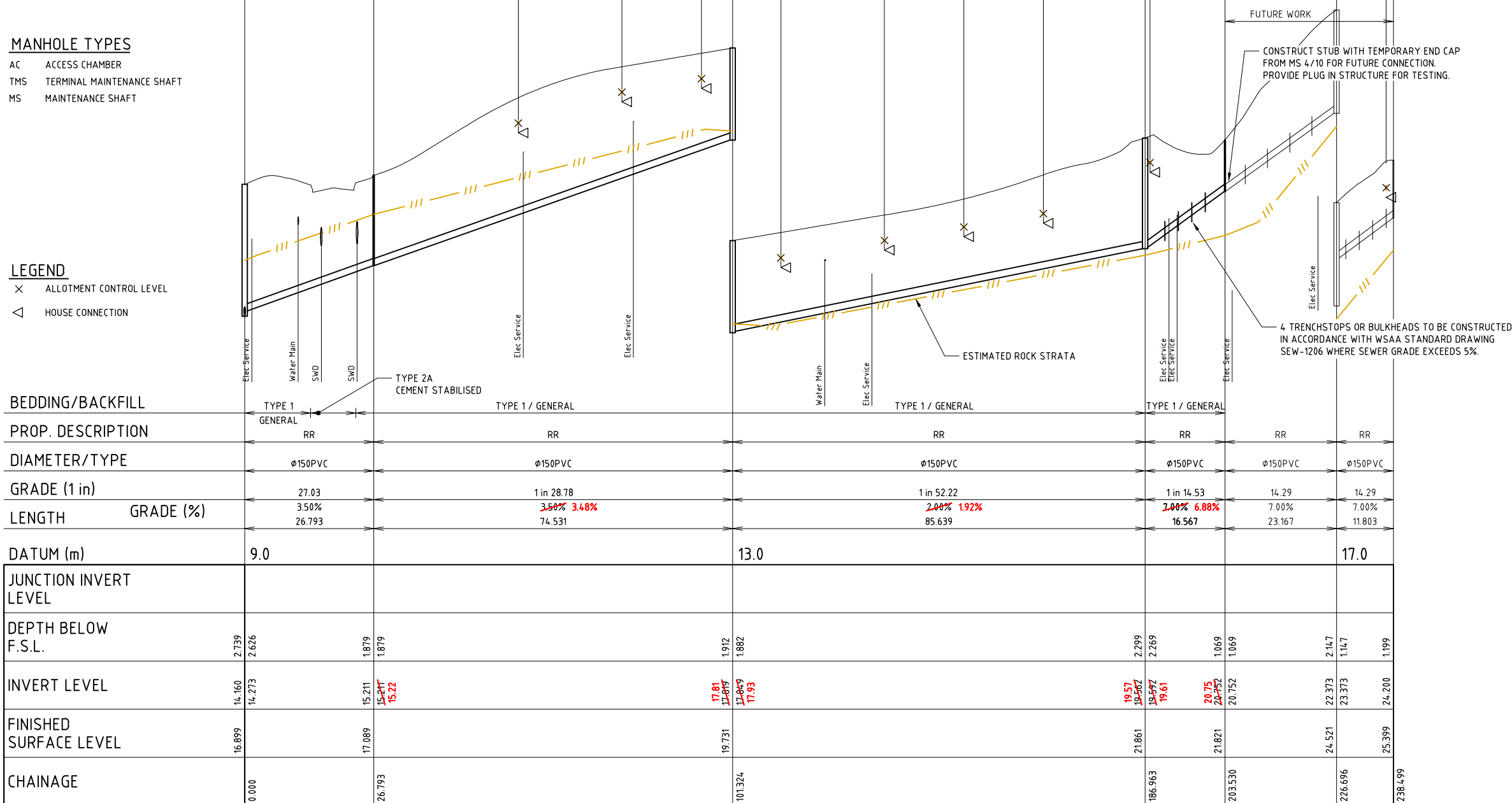
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MANHOLE TYPE/DROP	Class D S1100 Drop 1	Class D MS225	Class D S1100 Drop 1	Class D S1100 Drop 1	Class D MS225	Class D S1100 Drop 1	TMS
MANHOLE COVER							
JUNCTION LINE No.							
JUNCTION DROP							
HC DEPTH							0.75
HC TYPE							Type 1
HC IL							IL 24.530
HC LOT No.							Lot 96

### MANHOLE TYPES

AC ACCESS CHAMBER  
TMS TERMINAL MAINTENANCE SHAFT  
MS MAINTENANCE SHAFT

### LEGEND

X ALLOTMENT CONTROL LEVEL  
△ HOUSE CONNECTION



### BEDDING/BACKFILL

### PROP. DESCRIPTION

### DIAMETER/TYPE

### GRADE (1 in)

### LENGTH GRADE (%)

### DATUM (m)

### JUNCTION INVERT LEVEL

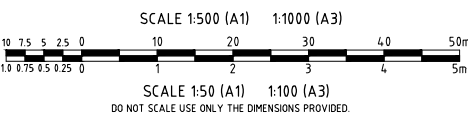
### DEPTH BELOW F.S.L.

### INVERT LEVEL

### FINISHED SURFACE LEVEL

### CHAINAGE

### LINE



AS CONSTRUCTED  
INFORMATION CERTIFIED BY  
BMD URBAN PTY LTD  
SIGNED: *[Signature]* DATE: 19/01/13

On behalf of WATER SERVICES, for  
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and associated documents  
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SIGNED ELLA PATTERSON DATE 31/05/12

NOTE:-  
FOR AS-CONSTRUCTED HOUSE CONNECTION  
LEVELS REFER TO SEWERAGE RETICULATION  
LAYOUT PLANS.

POWER WATER CORP. DRG No. B12-1623

4	AS CONSTRUCTED	CR	NP	PI		02/01/13
3	HOUSE CONNECTIONS REVIEWED FOR CONSTRUCTION	NP	NP	PI		31/07/12
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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ABN 28 600 749 002

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Client	LAND DEVELOPMENT CORPORATION/URBEX	Datum	AHD
Project	ZUCCOLI - PHASE 1.1	PSM	RL
Title	SEWERAGE RETICULATION LONGITUDINAL SECTIONS SHEET 6 OF 8	(MGA) COORD	
Project No.	B00039-CS012	Drawing No.	Rev
			4





File Name: B:\ Brisbane - consulting\B00039\B00039 - zuccoli - stage 7\4 - civil.dwg V2.2 current\B00039 - S1.dwg  
User: CHRIS ROWE  
Plot Date: 15/01/2013 9:25:10 AM

AC 3/11		AC 1/12		TMS 2/12	
MANHOLE TYPE/DROP	Class D S1100 Drop 1		Class D S1100 Drop 1		TMS
MANHOLE COVER					
JUNCTION LINE No.					
JUNCTION DROP					
HC DEPTH	1.156	1.162	1.167	1.287	0.70
HC TYPE	Type 2	Type 2	Type 2	Type 2	Type 4A
HC IL	IL 14.475	IL 14.554	IL 14.632	IL 14.595	IL 15.398
HC LOT No.	Lot 14	Lot 13	Lot 12	Lot 11	Lot 23

**MANHOLE TYPES**

AC ACCESS CHAMBER  
TMS TERMINAL MAINTENANCE SHAFT  
MS MAINTENANCE SHAFT

**LEGEND**

X ALLOTMENT CONTROL LEVEL  
△ HOUSE CONNECTION

**BEDDING/BACKFILL**

PROP. DESCRIPTION	LOT	LOT
DIAMETER/TYPE	Ø150PVC	Ø150PVC
GRADE (1 in)	1 in 90.09	1 in 76.92
LENGTH	54.900	49.734
GRADE (%)	1.25% 1.11%	1.25% 1.30%
DATUM (m)	7.0	
JUNCTION INVERT LEVEL		
DEPTH BELOW F.S.L.	2.690 2.650	2.523 2.493
INVERT LEVEL	12.65 12.678 12.72	13.33 13.354 13.37
FINISHED SURFACE LEVEL	15.318	15.877
CHAINAGE	0.000	54.900

**NOTE:-**  
REFER TO DWG B00039-CS001 FOR DETAILS OF INDIVIDUAL TYPE 4 & TYPE 4A HOUSE CONNECTIONS.

**NOTE:-**  
FOR AS-CONSTRUCTED HOUSE CONNECTION LEVELS REFER TO SEWERAGE RETICULATION LAYOUT PLANS.

AS CONSTRUCTED  
INFORMATION CERTIFIED BY  
BMD URBAN PTY LTD  
SIGNED: *ELLA PATTERSON* DATE: 19/01/13

On behalf of WATER SERVICES, for  
incorporation into POWER WATER CORP'S network.  
THIS DRAWING IS APPROVED FOR THE  
CONSTRUCTION OF ALL WATER & SEWER COMPONENTS  
AS SHOWN ON THE DRAWINGS  
This approval does not relieve the developer and consultant  
from full responsibility for the correctness of the design  
and associated documents  
This drawing is valid only for 2 years from date of signing

SIGNED ELLA PATTERSON DATE 31/05/2012

POWER WATER CORP. DRG No. B12-1625

No.	Amendments	Drawn	Design	Appd	Registered Engineer	Reg No.	Date
3	AS CONSTRUCTED	CR	NP	PI			02/01/13
2	HOUSE CONNECTIONS REVIEWED FOR CONSTRUCTION	NP	NP	PI			31/07/12
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	SEWERAGE RETICULATION LONGITUDINAL SECTION SHEET 8 OF 8		(MGA) COORD	AS CONSTRUCTED
Project No.	B00039-CS014	Drawing No.		Rev
				3