

Project Number: 14001-AC
RCC REF: OW001495
AS CONSTRUCTED

Date: 17 July 2015

Produced by:
C R Consulting

and Drafting Services

C R Computer Technologies Pty
Ltd

trading as
C R Consulting and Drafting
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39-41 PARK EDGE ROAD,
REDLAND BAY 4165
Lot 10 SP 247886

Received at Customer
Service 22/7/15.
For Registration please
OPW001495.
Thanks-

Right to Information Release

22 January 2010

Our Ref: 14001AC
Council Ref: OPW001495

Chief Executive Officer
Redland City Council
PO Box 21
CLEVELAND QLD 4163

Dear Sir

**RE: RECONFIGURATION OF LOT (1 INTO 9)
39-41 PARK EDGE ROAD, REDLAND BAY QLD
LOT 10 SP247806
DEVELOPMENT APPROVAL OPW001495**

ON MAINTENANCE

On behalf of our client, R. & G. I. Pfitzner Pty Ltd, we hereby seek Council approval of On Maintenance at the above property, pursuant to the Decision Notice granted by Council (OPW001495). The application comprises the following:

1. CD with the tests results, drawings and CCTV of sewer mains.
2. Report document with drawings, test results and CCTV report.

We now look forward to an On Maintenance meeting to complete the Operational Works.

Yours faithfully


Rudy Martignago

Eric.



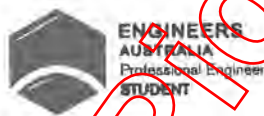
CR Consulting
and Drafting Services

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On Maintenance Submission OPW001495
39-41 Park Edge Road Redland Bay
For
Rodney Pfitzner



DOCUMENT CONTROL



CR Consulting
and Drafting Services

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Document Title: P:\Projects\14001 Small Jobs\14001AC Park Edge Rd - 39-41 - Redland Bay - Rodney Pitzner\Project Design\Engineering\SMPSMP Report
Master.docx

Rev No.	Date	Details	Author	Review
A	10 July 2010	Submit to Redland City Council	RM	GMK

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INDIVIDUAL CERTIFIED DRAWINGS

Right to Information Release

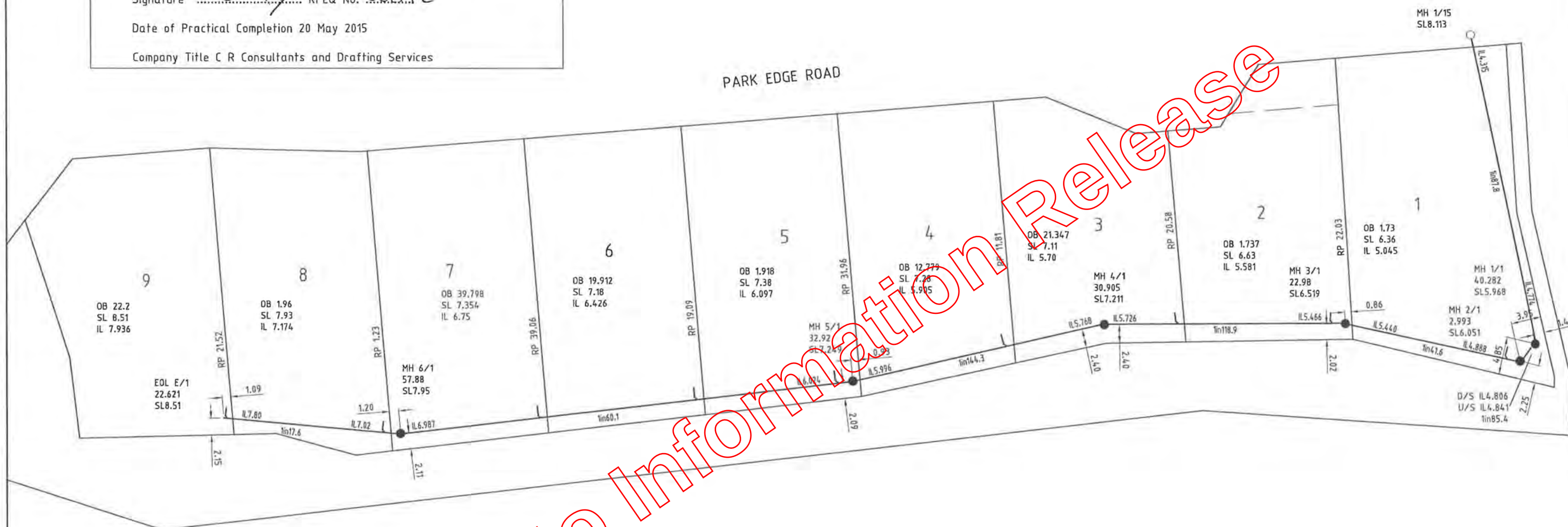
As Constructed Works

it is certified that the works herein have been constructed to Local Government standards, relevant approved specifications and the operational works approval. The As-Constructed Drawings for these works constitutes a true and correct record of the works constructed and complies with the design intent.

Signature RPEQ No. 00872

Date of Practical Completion 20 May 2015

Company Title C R Consultants and Drafting Services



Right to Information Release

PROJECT DESCRIPTION PROPOSED RECONFIGURATION OF LOT 39-41 PARK EDGE ROAD REDLAND BAY FOR RODNEY PFITZNER	ASSOCIATED CONSULTANTS C R Consultants and Drafting Services	<table border="1"> <thead> <tr> <th>AMEND</th> <th>DATE</th> <th>DESCRIPTION</th> <th>APPR.</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>20/05/2015</td> <td>ISSUE FOR AS CONSTRUCTED</td> <td>CR</td> </tr> </tbody> </table>	AMEND	DATE	DESCRIPTION	APPR.	1	20/05/2015	ISSUE FOR AS CONSTRUCTED	CR	THESE DRAWINGS AND DESIGNS ARE COPYRIGHT AND CANNOT BE REPRODUCED IN ANY WAY WITHOUT THE PERMISSION OF C.R. CONSULTING AND DRAFTING SERVICES. USE DIMENSIONS SHOWN ON DRAWINGS AND DO NOT SCALE OF DRAWINGS. FULL SHEET SIZE A1 REDLAND CITY COUNCIL RCC REF OPW001495	DRAWING TITLE AS CONSTRUCTED SEWER RETICULATION PLAN	 Access Business Park, 78 Business Street, Yatala QLD 4207 PO Box 999, Beenleigh QLD 4207 Phone: 07 3807 0009 Fax: 07 3807 1009 Email: office@crctd.com.au	DESIGNED BY DH CHECKED BY GME FILENAME 14001AC-11000 APPROVED BY [Signature] DRAWING No. 14001AC-01 DATE 20 MAY 2015 AMENDMENT A
AMEND	DATE	DESCRIPTION	APPR.											
1	20/05/2015	ISSUE FOR AS CONSTRUCTED	CR											

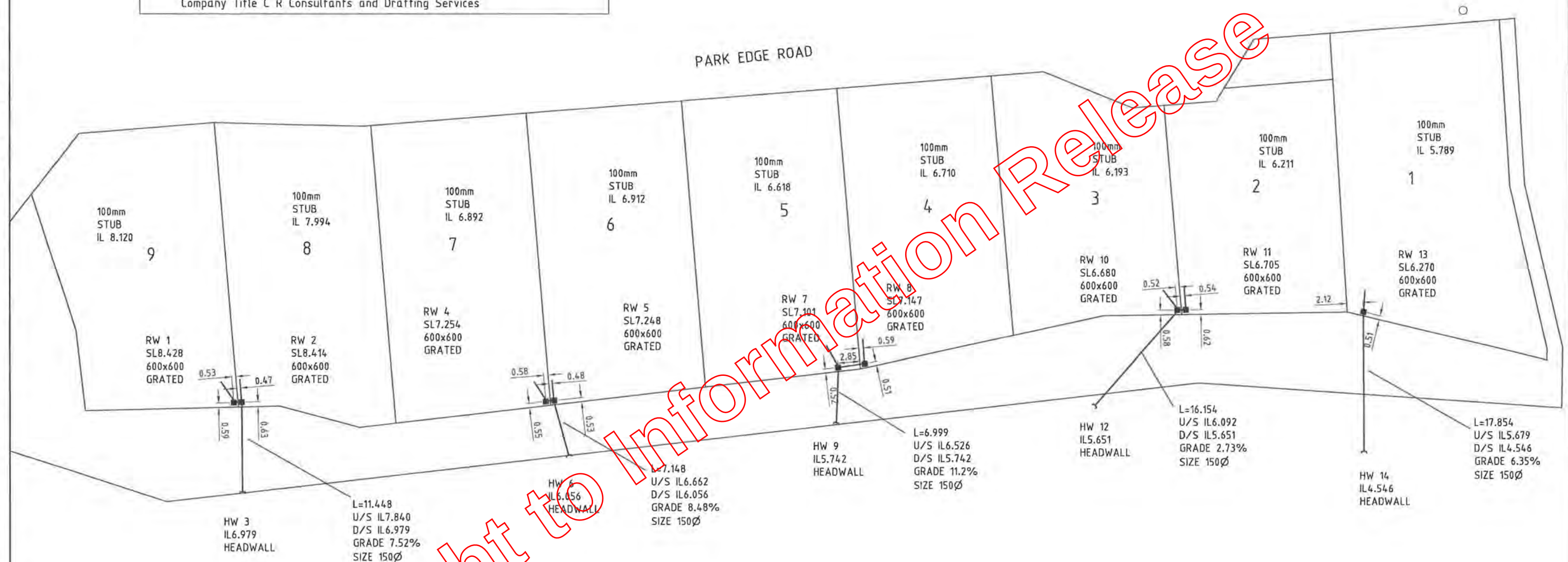
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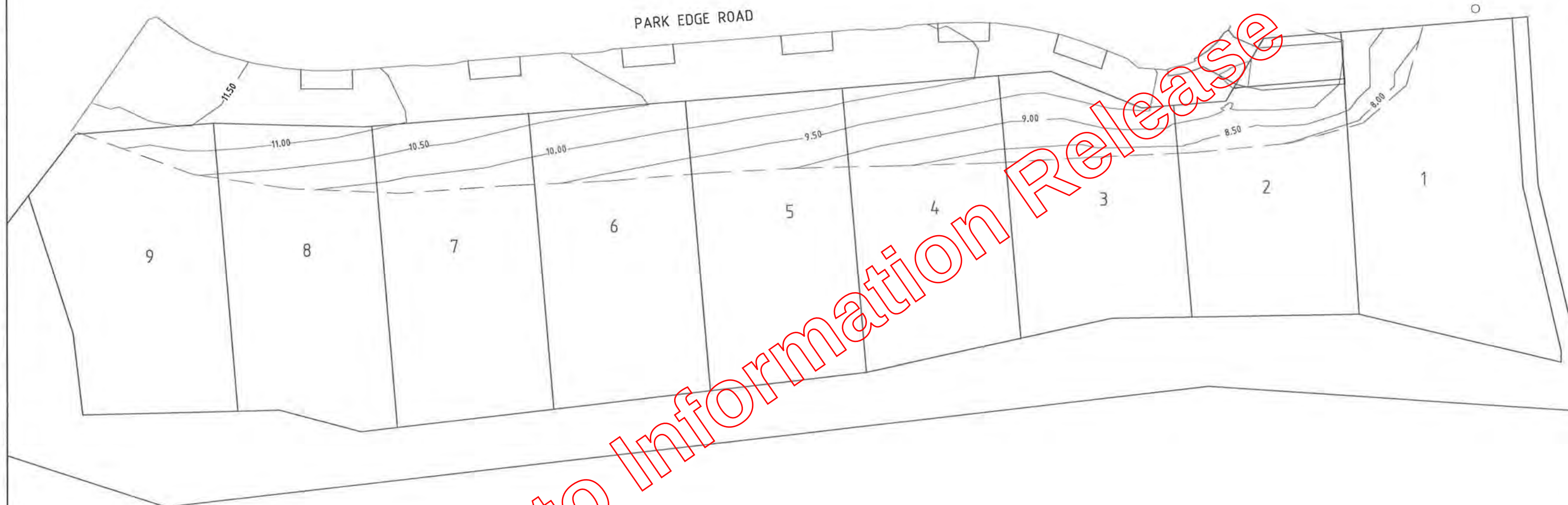
Signature RPEQ No. 00872

Date of Practical Completion 20 May 2015

Company Title C R Consultants and Drafting Services



PROJECT DESCRIPTION: PROPOSED RECONFIGURATION OF LOT 39-41 PARK EDGE ROAD REDLAND BAY FOR RODNEY PFITZNER	ASSOCIATED CONSULTANTS:									THESE DRAWINGS AND DESIGNS ARE COPYRIGHT AND CANNOT BE REPRODUCED IN ANY WAY WITHOUT THE PERMISSION OF C R CONSULTANTS AND DRAFTING SERVICES. USE DIMENSIONS SHOWN ON DRAWINGS AND DO NOT SCALE OF DRAWINGS. FULL SHEET SIZE A1				DRAWING TITLE: AS CONSTRUCTED ROOFWATER RETICULATION PLAN				 C R Consulting and Drafting Services	Access Business Park, 76 Business Street, Yabala QLD 4207 PO Box 999, Beenleigh QLD 4207 Phone: 07 3807 0009 Fax: 07 3807 1009 Email: office@crsinfo.com.au				DESIGNED BY: RH DRAWN BY: RH CHECKED BY: RHE FILENAME: 14001AC-02.DWG APPROVED BY:  R.P.F. No. 20872 DRAWING No.: 14001AC-02 AMENDMENT: A			
										COUNCIL: REDLAND CITY COUNCIL RCC REF DPW001495				DATE: 20 MAY 2015												



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Signature RPEQ No.00872

Date of Practical Completion 20 May 2015

Company Title C R Consultants and Drafting Services

PROJECT DESCRIPTION
PROPOSED RECONFIGURATION OF LOT
39-41 PARK EDGE ROAD REDLAND BAY
FOR
RODNEY PFITZNER

ASSOCIATED CONSULTANTS

NO	DATE	DESCRIPTION	APPR.	NO	DATE	DESCRIPTION	APPR.
1	26/05/2015	ISSUE FOR AS CONSTRUCTED	CR				
AMENDMENTS							

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FULL SHEET SIZE A1
COUNCIL:
REDLAND CITY COUNCIL
RCC REF OPW001495

DRAWING TITLE

AS CONSTRUCTED
EARTHWORKS PLAN

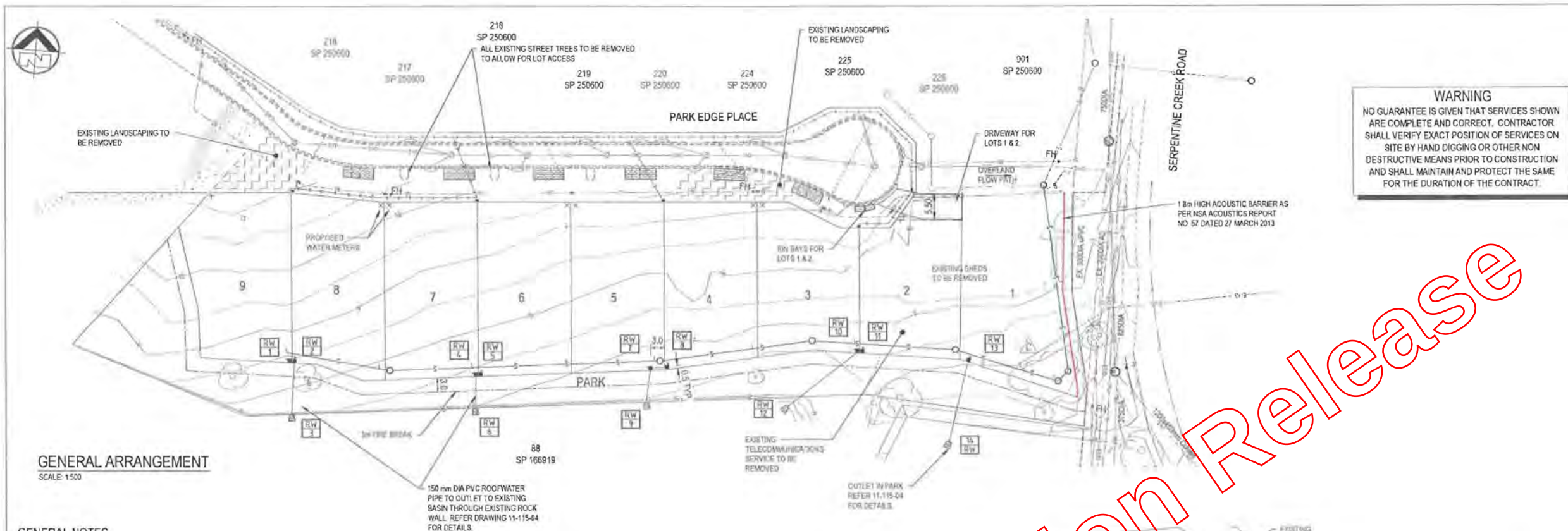


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DESIGNED BY: RM
CHECKED BY: CR
FILENAME: 14001AC-03.DWG
DATE: 28 MAY 2015
APPROVED BY: [Signature]
DRAWING No.: 14001AC-03
AMENDMENT: A

DESIGN DRAWINGS AS CONSTRUCTEDS

Right to Information Release



GENERAL ARRANGEMENT
SCALE: 1:500

GENERAL NOTES

THE CONTRACTOR SHALL REMOVE ALL DEAD WOOD AND POTENTIALLY DANGEROUS LIMBS FROM TREES TO BE RETAINED WITHIN THE ROAD RESERVES OR PARK AREAS. SHOULD THE CONSTRUCTION OF THE WORKS RESULT IN THE DEATH OR DETERIORATION OF A TREE THE CONTRACTOR SHALL REMOVE THE TREE OR THE AFFECTED PART THEREOF. ALL TREE WORKS AND THE TREATMENT OF ANY DAMAGED LIMBS OF TREES TO BE RETAINED, SHALL BE PERFORMED BY A QUALIFIED ARBORIST WHO IS A MEMBER OF THE AUSTRALIAN ARBORIST ASSOCIATION OR EQUIVALENT IN ACCORDANCE WITH AS4373:2007.

THE CONTRACTOR SHALL REMOVE FROM SITE ANY CONTAMINATED MATERIAL, AND ANY UNCONTROLLED OR OTHERWISE UNSUITABLE FILL MATERIAL. THE CONTRACTOR SHALL COMPACT FILL MATERIAL AND TREAT DISTURBED AREAS IN ACCORDANCE WITH THE REQUIREMENTS OF AS3798, AND SHALL SUPPLY TO THE SUPERINTENDENT, CERTIFICATION BY A GEOTECHNICAL TESTING AUTHORITY TO THAT EFFECT. ANY FILLING DEEPER THAN 400mm, SHALL BE CARRIED OUT TO AS3798 LEVEL 1 RESPONSIBILITY.

EARTHWORKS BATTERS TO ROADWAYS SHALL BE AS NOTED ON ROADWAY CROSS SECTION DRAWINGS.

THE CONTRACTOR SHALL IMPLEMENT EROSION AND SILTATION CONTROL MEASURES DURING CONSTRUCTION. THE CONTRACTOR SHALL PROTECT NEARBY PROPERTIES FROM DUST POLLUTION GENERATED BY THE CONSTRUCTION AND MAINTENANCE OF THE WORKS, AND SHALL COMPLY WITH THE SUPERINTENDENT'S INSTRUCTIONS IN THAT REGARD.

EARTHWORKS TO PARK AREA BATTERS SHALL BE ADJUSTED TO MINIMISE EXCAVATION AROUND EXISTING TREES.

TO PREVENT THE SITE AND SURROUNDING AREAS BEING CONTAMINATED WITH WIND-BORNE DUST, ALL EARTHWORKS STOCKPILES SHALL BE EITHER:-

- a. PLANTED WITH A FAST GROWING COVER CROP OF GRASS OR CEREAL, OR HYDROMULCHED
- OR
- b. COVERED WITH GEOTEXTILE FABRIC OR WEED MATTING

STOCKPILES SHALL BE KEPT MOIST AT ALL TIMES.

SHOULD ANY ABORIGINAL, ARCHAEOLOGICAL OR HISTORIC SITES, ITEMS OR PLACES BE IDENTIFIED, LOCATED OR EXPOSED DURING THE COURSE OR CONSTRUCTION OR OPERATION OF THE DEVELOPMENT, ALL ACTIVITIES SHALL CEASE FORTHWITH, AND THE CONTRACTOR SHALL CONTACT THE SENIOR CULTURAL HERITAGE OFFICER (PH 3225-1074) OF THE ENVIRONMENTAL PROTECTION AGENCY.

ALL FOOTPATH AND BATTER AREAS SHALL BE FULLY TURFED UPON COMPLETION OF EARTHWORKS. ALL AREAS WITHIN THE ALLOTMENTS SHALL BE GRASS SEEDDED UPON COMPLETION OF WORKS.

VEGETATION MANAGEMENT

COUNCIL WILL NOT ALLOW CLEARED VEGETATION TO BE BURNED ON SITE. THE CONTRACTOR SHALL DUMP CLEARED MATERIAL AT AN APPROVED WASTE DISPOSAL FACILITY, OR MULCH AND RETAIN IT ON SITE FOR LATER USE IN LANDSCAPING AND REVEGETATION WORKS.

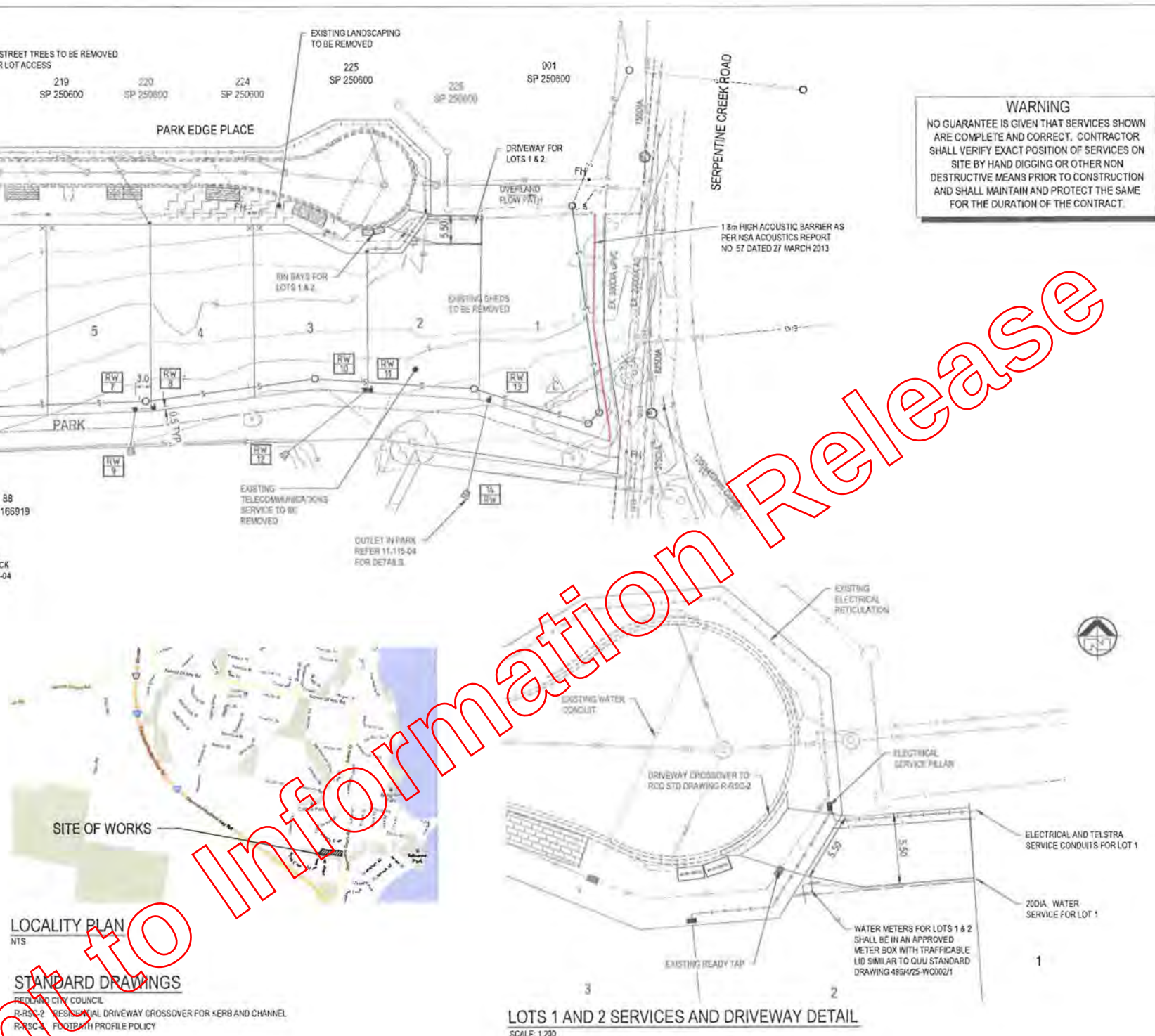
IN GENERAL, THE CONTRACTOR SHALL MINIMIZE THE AREA OF CONSTRUCTION VEHICLE ACTIVITY.

THE CONTRACTOR SHALL PROTECT TREES WITHIN 4 METRES OF GENERAL MACHINE OPERATION WITH TREE GUARDS, MADE OF RUBBER OR HARDWOOD GIRDLES TO WHICH HAVE BEEN ATTACHED 1.8m HIGH BATTERS CLOSELY SPACED AND ARRANGED VERTICALLY FROM GROUND LEVEL. THE CONTRACTOR SHALL STRAP THE GUARDS TO THE TREES PRIOR TO CONSTRUCTION AND KEEP THEM IN PLACE UNTIL COMPLETION.

WHERE POSSIBLE, THE CONTRACTOR SHALL TUNNEL UNDER TREE ROOTS RATHER THAN SEVERING THEM. WHERE ROOTS HAVE BEEN DAMAGED, THE CONTRACTOR SHALL SEVER THEM CLEANLY AND TREAT THE CUT FACES WITH A SUITABLE FUNGICIDE.

CONCRETE NOTES

1. ALL CONCRETE SHALL BE N25 IN ACCORDANCE WITH AS1379 AND AS3600.
2. CONSTRUCTION JOINTS OR POUR BREAKS WHERE NOT SHOWN ON PLANS OR DETAILS SHALL BE LOCATED AND FORMED TO THE APPROVAL OF THE ENGINEER.
3. PROVIDE THE ENGINEER WITH 24 HOURS NOTICE OF REINFORCEMENT BEING READY FOR INSPECTION. NO CONCRETE IS TO BE POURED WITHOUT THE APPROVAL OF THE ENGINEER.
4. PLACE SUFFICIENT STOODS UNDER MAIN BOTTOM REINFORCING RODS AND TOP CROSS RODS IN SLABS TO ALLOW THEM TO BE SUPPORTED IN THEIR CORRECT POSITIONS DURING CONCRETING (NOT GREATER THAN 900mm).
5. SUPPLY AND LAY FABRIC IN FLAT SHEETS AT SPLICES. FABRIC SHALL BE LAPPED AS SPECIFIED IN AS 3600.
6. SLAB TO BE PLACED ON 100mm THICK CBR 15 GRAVEL WHICH HAS BEEN THOROUGHLY DAMPENED BEFORE PLACEMENT OF CONCRETE.
7. PROVIDE 20x12 TRIMMER BARS 1000 LONG TO ALL RE-ENTRANT CORNER.



LOCALITY PLAN
NTS

STANDARD DRAWINGS

REDLAND CITY COUNCIL
R.RSC-2 RESIDENTIAL DRIVEWAY CROSSOVER FOR KERB AND CHANNEL
R.RSC-3 FOOTPATH PROFILE POLICY

WORKING DRAWINGS

ICUBED CONSULTING PTY LTD
11-115-01 GENERAL ARRANGEMENT, SITE PLAN & NOTES
11-115-02 FINISHED SURFACE & EROSION AND SEDIMENT CONTROL PLAN
11-115-03 SEWERAGE LAYOUT & LONGITUDINAL SECTION
11-115-04 ROOFWATER DETAILS

JOB NOTES

1. ADJUST EXISTING HYDRANT COVERS AND SURROUNDS AS REQUIRED TO SUIT NEW VERGE LEVELS.
2. EXISTING LANDSCAPING AND STREET TREES IN FRONT OF LOTS 1-9 SHALL BE REMOVED TO ALLOW CONSTRUCTION OF PARKING SLABS AND FUTURE DRIVEWAYS.
3. WATER METERS SHALL BE INSTALLED BY REDLAND WATER AT THE DEVELOPER'S EXPENSE.

WARNING
NO GUARANTEE IS GIVEN THAT SERVICES SHOWN ARE COMPLETE AND CORRECT. CONTRACTOR SHALL VERIFY EXACT POSITION OF SERVICES ON SITE BY HAND DIGGING OR OTHER NON DESTRUCTIVE MEANS PRIOR TO CONSTRUCTION AND SHALL MAINTAIN AND PROTECT THE SAME FOR THE DURATION OF THE CONTRACT.

PROJECT TEAM

Consulting Engineer:



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LEGEND

EXISTING PROPERTY BOUNDARY	
PROPOSED PROPERTY BOUNDARY	
EXISTING SEWERAGE RETICULATION	
PROPOSED SEWERAGE RETICULATION WITH HOUSE CONNECTION	
EXISTING WATER RETICULATION WITH SERVICE CONNECTION	
PROPOSED WATER SERVICE CONDUIT	
PROPOSED WATER SERVICE	
EXISTING STORMWATER DRAINAGE	
PROPOSED ROOFWATER	
EXISTING ELECTRICAL RETICULATION	
PROPOSED ELECTRICAL RETICULATION	
EXISTING TELECOMMUNICATIONS	
PROPOSED CONCRETE DRIVEWAY	
EXISTING CONTOUR	
PROPOSED CONTOUR	
SEDIMENT FENCE	
PROPOSED CONCRETE BIN BAY	
ROOFWATER STRUCTURE NUMBER	
STORMWATER STRUCTURE NUMBER	
SEWER STRUCTURE NUMBER	
CONCRETE PARKING BAY	
EXISTING LANDSCAPING	

C	SEWER LAYOUT AMENDMENT	18/10/2013	BP
B	ROOFWATER LAYOUT AMENDMENT	18/10/2013	BP
A	FOR OPERATIONAL WORKS APPROVAL	08/05/2013	BP
REV	DESCRIPTION	DATE	BY

Status
AS CONSTRUCTED

Project
**39-41 PARK EDGE PLACE
REDLAND BAY**

for
P&D SCHMIDT

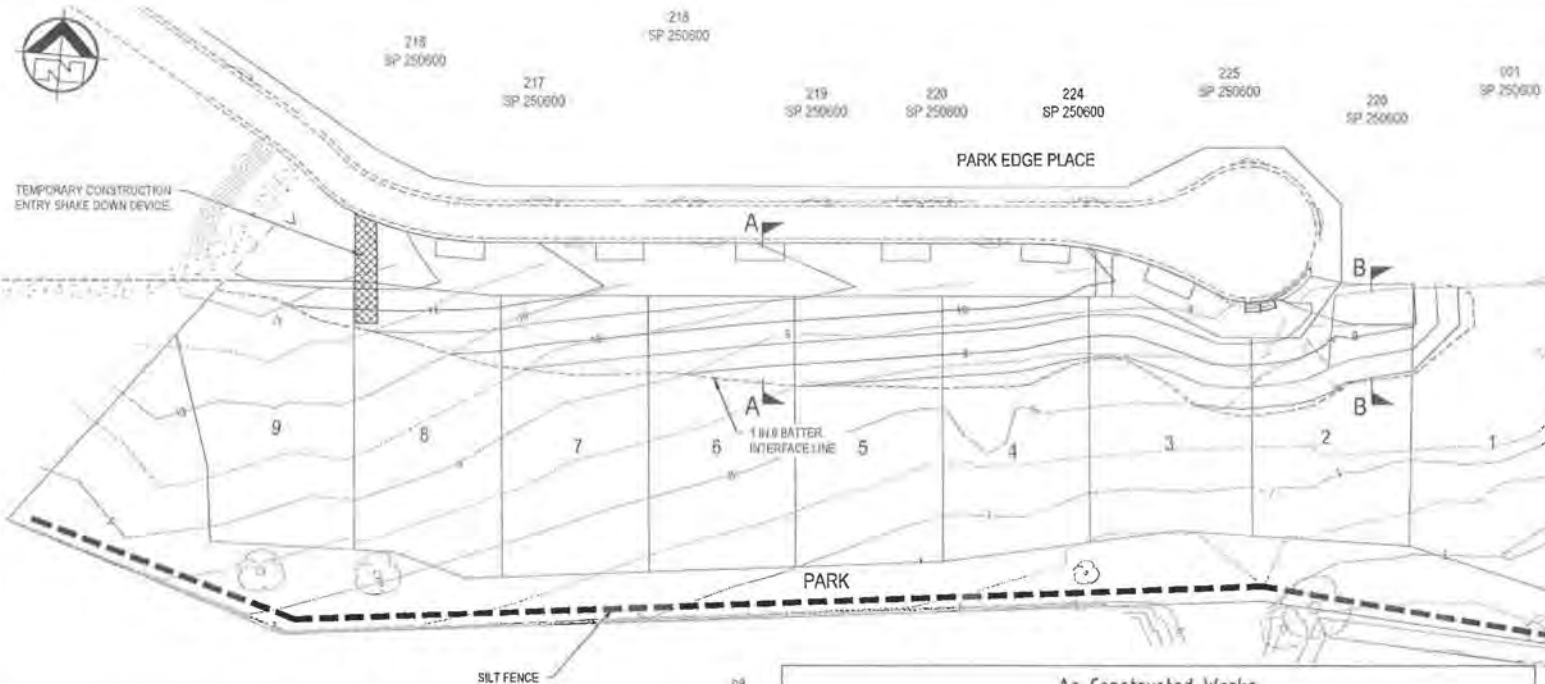
File
**GENERAL ARRANGEMENT
SITE PLAN AND NOTES**

Drawn	Date	Check	Sign
BP	8.05.13	TJS	10.05.13
Design	Date	App'd	Drawn
BP	8.05.13	HC	10.05.13
Scale	AS SHOWN	Cont	Date
			10.05.13
Project No	11-115	Orig. No.	01
		Rev	C

RCC REF: OPW001495



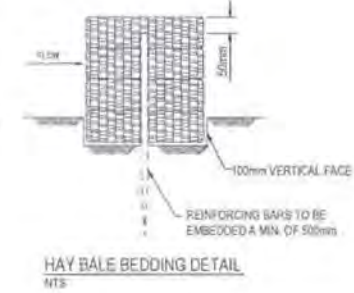
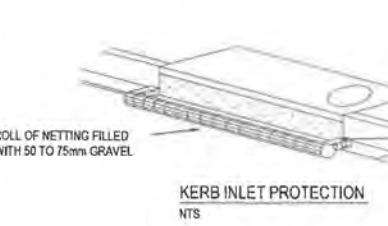
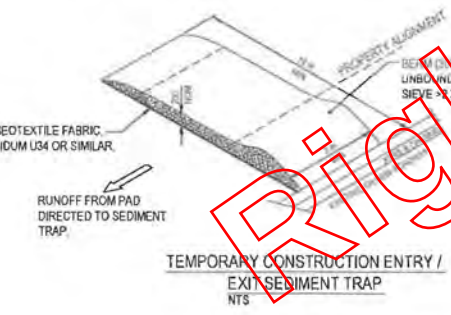
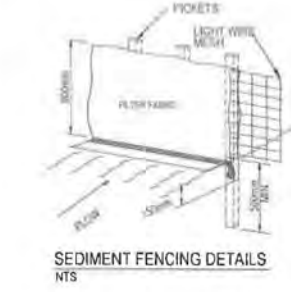
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FINISHED SURFACE AND EROSION AND SEDIMENT CONTROL PLAN SCALE: 1:500

EROSION AND SEDIMENTATION CONTROL

- CONTRACTOR TO NOMINATE SITE REPRESENTATIVE TO BE RESPONSIBLE FOR THE IMPLEMENTATION AND UP KEEP OF THE SILTATION AND EROSION MANAGEMENT CONTROL PLAN.
- CONSTRUCTION OF ALL SEDIMENT MANAGEMENT DEVICES SHALL BE COMPLETED AND EFFECTIVE PRIOR TO:
-STRIPPING OF TOPSOIL AND GRASS
-BULK EARTHWORKS
-SERVICE INSTALLATION
- WHERE THE CONTRACTOR IS REQUIRED TO SLASH EXISTING VEGETATION, THE SLASHED HEIGHT SHALL BE AT LEAST 75MM, SO THAT THE STUBS CAN ASSIST IN PREVENTING EROSION.
- ENSURE NO RUN OFF OR SEDIMENT DISCHARGES TO STREET OR ADJOINING PROPERTIES.
- SHOULD THE SUPERINTENDENT, OR COUNCIL'S DESIGNATED REPRESENTATIVE, REQUEST THE CONTRACTOR TO IMPLEMENT AN EROSION AND SEDIMENT CONTROL MEASURE, THE CONTRACTOR SHALL IMPLEMENT IT WITHIN 24 HOURS.
- BOTH TEMPORARY AND PERMANENT SEDIMENT MANAGEMENT DEVICES SHALL BE MAINTAINED AT A SUITABLE LEVEL/CONDITION THROUGHOUT CONSTRUCTION.
- SEDIMENT FENCES ARE TO BE CLEANED OUT WHEN CAPACITY IS REDUCED BY 30%.
- IF EROSION AND SEDIMENT CONTROL DEVICES HAVE BEEN FOUND TO BE DEFICIENT OR FAILED IN SERVICE, DUE TO UNFORESEEN CIRCUMSTANCES, CORRECTIVE ACTION IS TO BE UNDERTAKEN IMMEDIATELY WHICH MAY INCLUDE AMENDMENTS/ADDITIONS TO THE ORIGINAL APPROVED EROSION CONTROL PLANS. SUCH ADDITIONS OR AMENDMENTS ARE TO BE APPROVED BY RELEVANT LICENSING AND COMPLIANCE OFFICER.
- THE CONTRACTOR SHALL PROVIDE ONE VEHICLE ACCESS POINT TO SERVE THE SITE. ITS LOCATION, AND THE ASSOCIATED EROSION AND SEDIMENT CONTROL MEASURES, SHALL BE AS AGREED WITH COUNCIL'S DESIGNATED REPRESENTATIVE. THE PURPOSE OF THE ACCESS POINT AND CONTROL MEASURES IS TO MINIMIZE THE AMOUNT OF SEDIMENT TAKEN OFF SITE BY VEHICLE TYRES.
- THE CONTRACTOR SHALL PROVIDE INLET PROTECTION TO ANY EXISTING GULLIES DIRECTLY DOWNSTREAM OF THE SITE OF WORKS.
- THE CONTRACTOR SHALL TURF ALL DISTURBED AREAS OF VERGES, PRIOR TO ON MAINTENANCE INSPECTION.



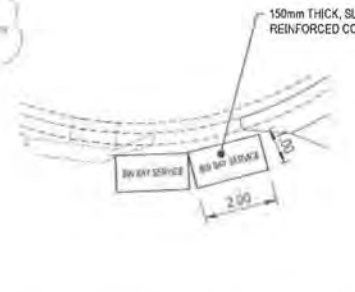
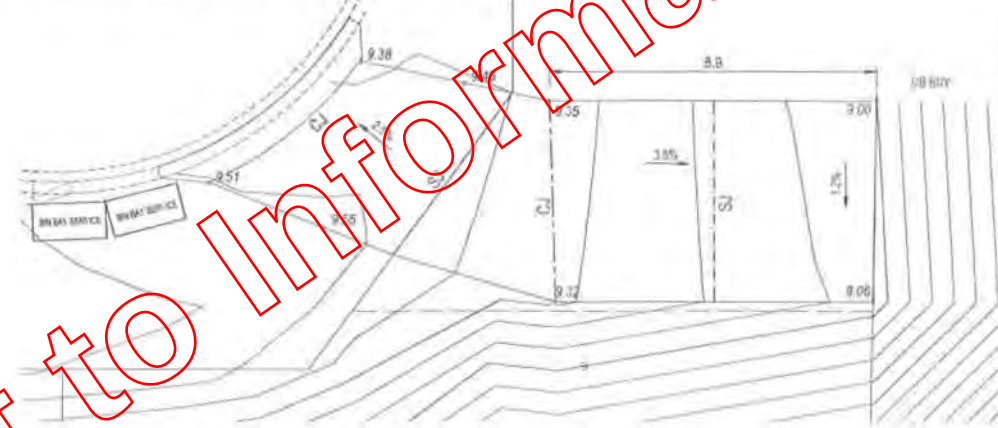
As Constructed Works

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Signature: *[Signature]* RPEQ No. 10272

Date of Practical Completion 20 May 2015

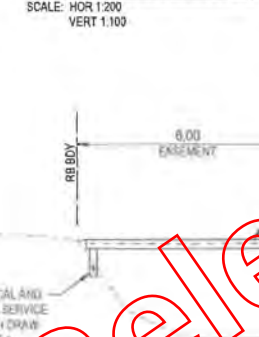
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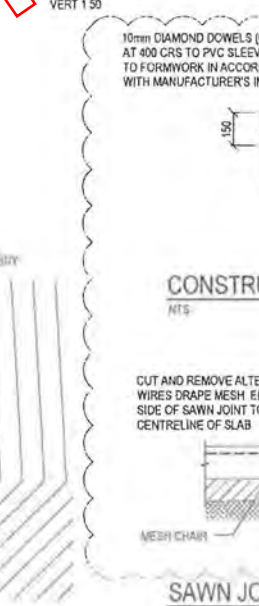
BIN BAY NOTES:

- CONCRETE BIN BAYS SHALL BE OF STENCILLED CONCRETE WITH "BIN SERVICE 1A" IN 200mm HEIGHT LETTERS.
- CONCRETE SHALL BE 150mm THICK, SL6, 50mm COVER ON 100mm THICK GBR 15 BASE.

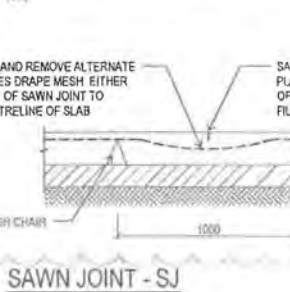
TYPICAL SECTION A-A SCALE: HOR 1:200 VERT 1:100



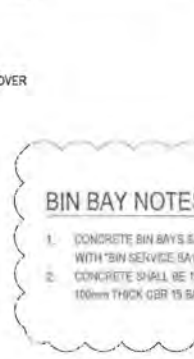
TYPICAL SECTION B-B SCALE: HOR 1:100 VERT 1:50



CONSTRUCTION JOINT - CJ NTS



SAWN JOINT - SJ NTS



PROJECT TEAM

Consulting Engineer:



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AS CONSTRUCTED

Project
**39-41 PARK EDGE PLACE
REDLAND BAY**

for
P&D SCHMIDT

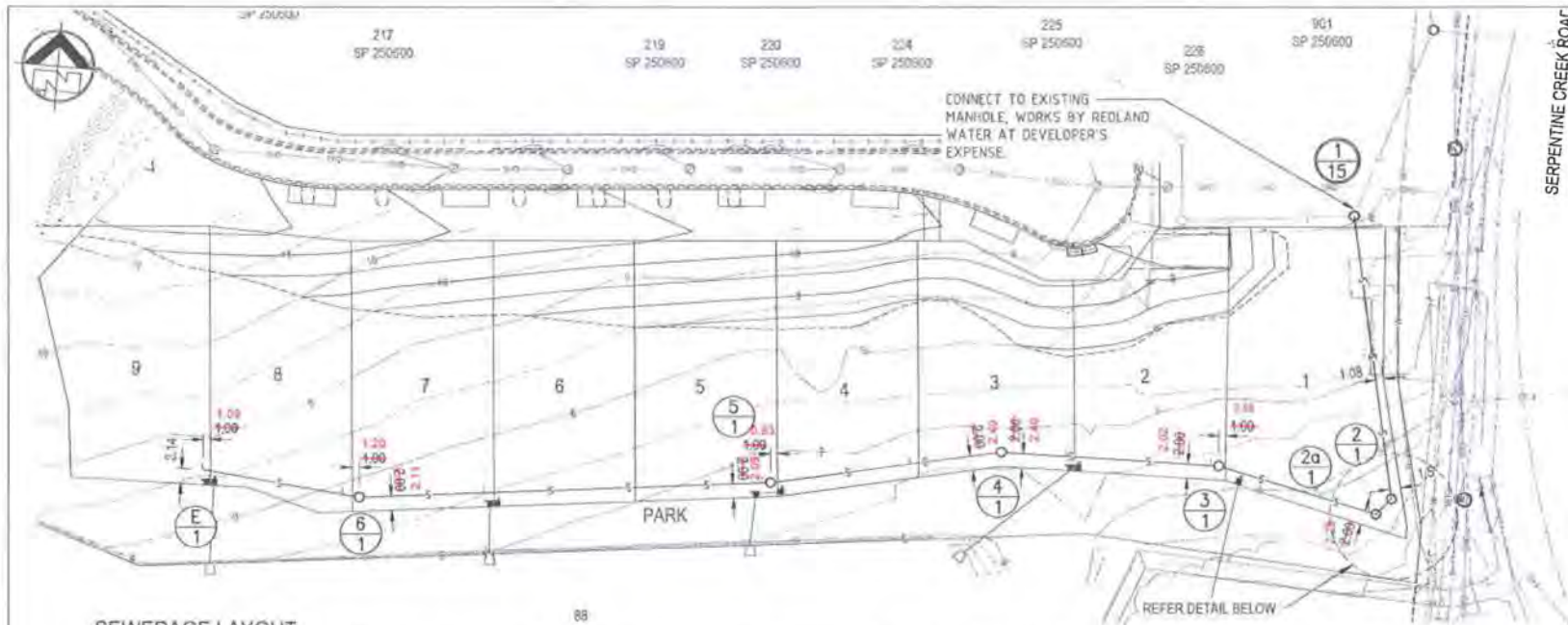
FINISHED SURFACE AND EROSION & SEDIMENT CONTROL PLAN

Drawn	Date	Chkd	Date
BP	6.05.13	TJA	10.05.13
Design	Date	Apprd	Date
BP	6.05.13	NG	10.05.13
Scale	As Shown	Certd	Date
AS SHOWN		NG	10.05.13
Project No.	11-115	Desg. No.	02
Rev			B

RCC REF: OPW001495



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SEWERAGE LAYOUT
SCALE: 1:500

MANHOLE/END NAME
MANHOLE TYPE
LID TYPE
JUNCTION LINE DROP TYPE
DEPTH TO HC
HOUSE CONNECTION INVERT LEVEL
HC TYPE
HC LOT No
CH. FROM D/S MH

As Constructed Works

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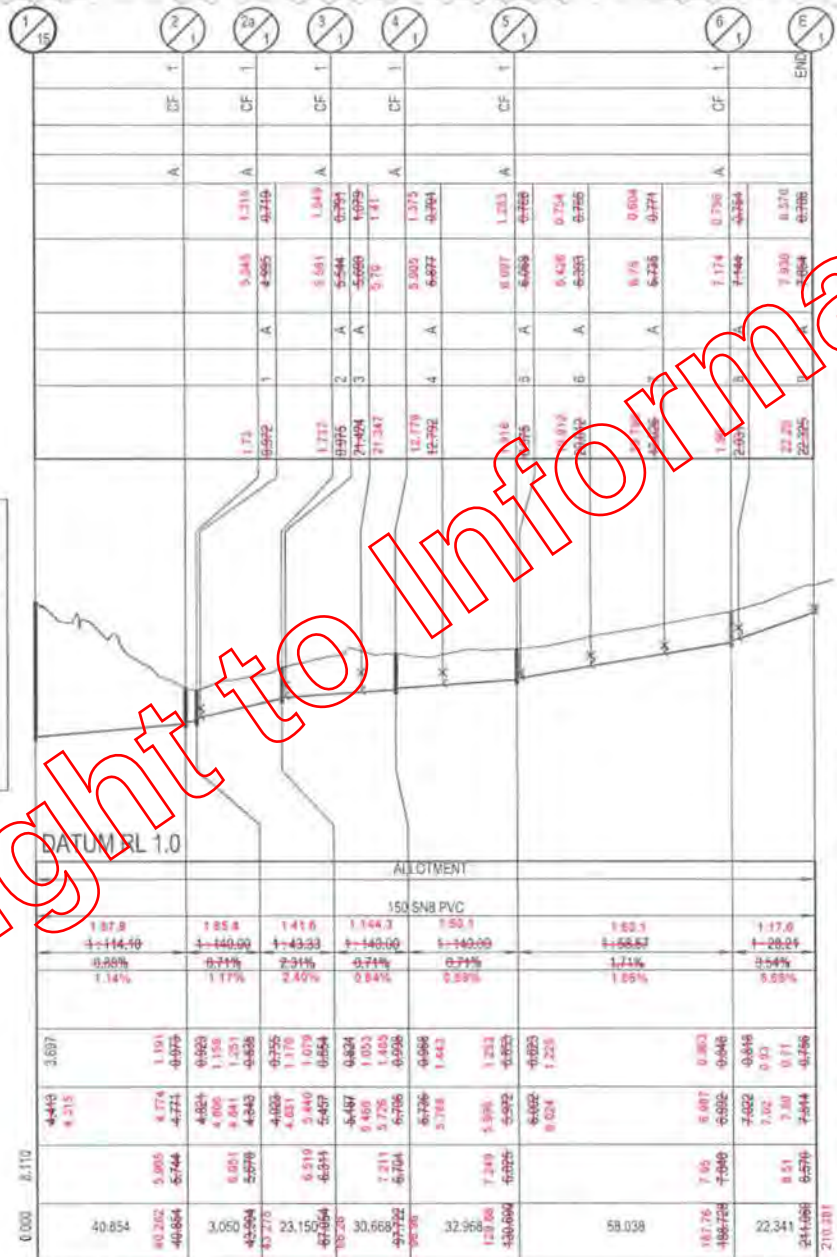
Signature RPEQ No. 00272

Date of Practical Completion 20 May 2015

Company Title C R Consultants and Drafting Services

STREET ETC
DIAMETER
GRADE
JUNCTION INVERT LEVEL
DEPTH TO INVERT
INVERT LEVEL OF SEWER
DESIGN SURFACE LEVEL
RUNNING CHAINAGE

SEWERAGE LONGITUDINAL SECTION
HORIZONTAL SCALE: 1:1000
VERTICAL SCALE: 1:100



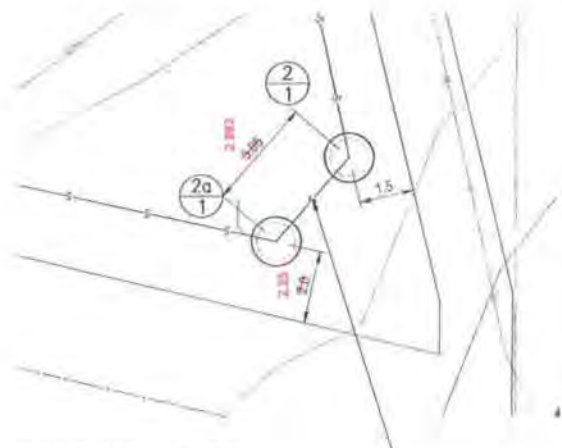
GENERAL NOTES - SEWERAGE

- ALL SEWER DRAINLINES SHALL BE CONSTRUCTED USING ONE OF THE FOLLOWING APPROVED PIPE TYPES, THE CLASS OF THE RESPECTIVE DRAINLINE BEING DEPENDENT UPON ITS DEPTH AND LOCATION:
UPVC CLASS SN8;
DUCTILE IRON HEAVY CONCRETE LINED CLASS K9 WITH POLYTHENE SLEEVING;
VITRIFIED CLAY;
HOBAS G.R.P.;
F.R.C. INOT TO BE USED DOWNSTREAM OF PUMPED SEWERAGE;
ULTRA-RIB UPVC SEWER PIPES (SUBJECT TO A SITE BY SITE APPROVAL)
- HOUSE CONNECTION BRANCHES SHALL BE LOCATED GENERALLY 10m - 12m UPSTREAM OF THE ALLOTMENT BOUNDARY AND WHERE APPLICABLE THE HOUSE CONNECTION SHALL EXTEND A MINIMUM OF 10m BEYOND THE PROPERTY BOUNDARY. THE HOUSE CONNECTION SHALL BE LOCATED AT THE LOWEST PART OF THE ALLOTMENT AND AT SUFFICIENT DEPTH TO SERVICE THE WHOLE ALLOTMENT
- SEWER DRAINLINES SHALL BE BACKFILLED AND BEDDED IN ACCORDANCE WITH IPWEAQ STD. DWG. NO. S-0099
- COMPACTION TEST RESULTS & CERTIFICATES SHALL BE SUPPLIED TO THE SUPERINTENDENT FOR SUBMISSION TO COUNCIL, IN ORDER TO DEMONSTRATE THAT THE SEWER TRENCHES HAVE BEEN COMPACTED IN ACCORDANCE WITH THE REQUIREMENTS OF AUSTRALIAN STANDARD AS 1289. TESTING FREQUENCY SHALL BE ONE TEST EVERY 60m FOR EVERY ALTERNATIVE LAYER OF THE TRENCH BACKFILL
- SEWER HOUSE CONNECTIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH IPWEAQ STD. DWG. NO. S-0030
- SEWER HOUSE CONNECTION BRANCHES SHALL NOT EXCEED 30m IN HEIGHT. WHERE THE DEPTH FROM THE INVERT OF THE HOUSE CONNECTION BRANCH EXCEEDS 2.1m ONE OF THE FOLLOWING MATERIALS SHALL BE USED IN LIEU OF UPVC: DUCTILE IRON WITH FUSION BONDED EPOXY COATING FOR THE SLOPE JUNCTION AND ALLOWING BEND. JOINT COMMITTEE APPROVED GLASS REINFORCED PLASTIC DROP SEWER JUNCTIONS
- ALL SEWER HOUSE CONNECTIONS SHOWN ARE THE HIGHEST POSSIBLE TO MAINTAIN THE RESPECTIVE ALLOTMENT(S). SHOULD THE CONTRACTOR CONSTRUCT THE CONNECTIONS TO A HIGHER LEVEL, THE COSTS ASSOCIATED WITH THE LOWERING OF THE CONNECTION(S) SHALL BE BORNE BY THE CONTRACTOR
- OBS SHALL FINISH 10m INSIDE ALLOTMENT BOUNDARIES OR 10m AWAY FROM ROOFWATER LINES, WHICHEVER IS FURTHER
- SEWER MANHOLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH IPWEAQ STD. DWG. NO. S-0020, S-0021, S-0024
- SEWER MANHOLE COVERS AND FRAMES SHALL BE CONSTRUCTED IN ACCORDANCE WITH IPWEAQ STD. DWG. NO. S-0025 AND S-0026
- STEP UPPI SHALL NOT BE CONSTRUCTED WITHIN SEWER MANHOLES
- PRECAST SEWER MANHOLES MORE THAN 3m DEEP REQUIRE A THICKENED BASE; MANHOLES CAST INSITU REQUIRE BOTH WALL AND BASE TO BE THICKENED. REFER TO THE RELEVANT IPWEAQ STD DWGS, S-0020 FOR CAST INSITU AND S-0021 FOR PRECAST. SEWER MANHOLES MORE THAN 6m DEEP REQUIRE DESIGN AND CERTIFICATION BY A RPEQ.

REDLAND CITY COUNCIL & CONTRACTOR LIVE SEWER WORKS

THE CONTRACTOR SHALL CONTACT REDLAND WATER AT LEAST 24 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION TO ARRANGE FOR THE WORKS DETAILED BELOW TO BE CARRIED OUT.
THE CONTRACTOR SHALL ENSURE THAT ALL LIVE SEWER WORKS ARE COMPLETE BEFORE ALLOWING PRIVATE PLUMBING WORKS TO BE CONNECTED.
THE LIVE WORKS SHALL BE CARRIED OUT AT THE DEVELOPER'S EXPENSE

NO	DESCRIPTION	DIA OF SEWER	MH NO.	MH TYPE	COVER TYPE	LID NO.	FSL	IL	DEPTH
1	COUNCIL TO CORE A HOLE IN THE WALL OF EXISTING MH 105, INSTALL A SANGED SHORT, BENCH THE MANHOLE BASE TO SUIT THE EXISTING AND NEW SEWER LINES, AND INSTALL A PLUG TO THE NEW SHORT.	150	105	1	CF	301/SP250000	8.110	4.413	3.697
2	CONTRACTOR TO CONSTRUCT NEW SEWER LINE AND HOUSE CONNECTIONS TO LOTS 1,2,3,4,5,6,7,8 & 9 AND OBTAIN APPROVAL FROM COUNCIL'S INSPECTOR FOR THOSE WORKS.	150				110/9			
3	COUNCIL TO REMOVE TEMPORARY PLUG AFTER SUCCESSFUL ON-MAINTENANCE APPROVAL.	150	105	1	CF	301/SP250000	8.110	4.413	3.697



DETAIL MH's 2/1 - 2a/1
SCALE: 1:100

1 STUB, 150mm LONG
1 SHORT, 450mm LONG
1 SHORT, 450mm LONG
1 STUB, 150mm LONG

RCC REF: OPW001495



PROJECT TEAM

Consulting Engineer:



CR Consulting
and Drafting Services

CR Computer Technologies Pty Ltd
Trading as
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ABN 39 012 092 597
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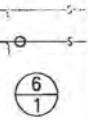
Telephone 07 3807 0000
Fax 07 3807 1009
office@crdsg.com.au

LEGEND

EXISTING SEWERAGE RETICULATION

PROPOSED SEWERAGE RETICULATION
WITH HOUSE CONNECTION

SEWER STRUCTURE NUMBER



C	MH 2A/1 ADDED	18/12/2013	BP
B	ROOFWATER LAYOUT AMENDED	14/11/2013	BP
A	FOR OPERATIONAL WORKS APPROVAL	05/05/2013	BP
REV	DESCRIPTION	DATE	BY

AS CONSTRUCTED

Project
39-41 PARK EDGE PLACE
REDLAND BAY

for
P&D SCHMIDT

Title
SEWERAGE LAYOUT
& LONGITUDINAL SECTION

Drawn	Date	Chkd	Date
BP	6 05 13	TJS	10 05 13
Design	Date	Apprd	Date
BP	6 05 13	NC	10 05 13
Scale	As Shown	As Shown	Date
			10 05 13
Project No	Dwg No	Rev	
11-115	03	D	

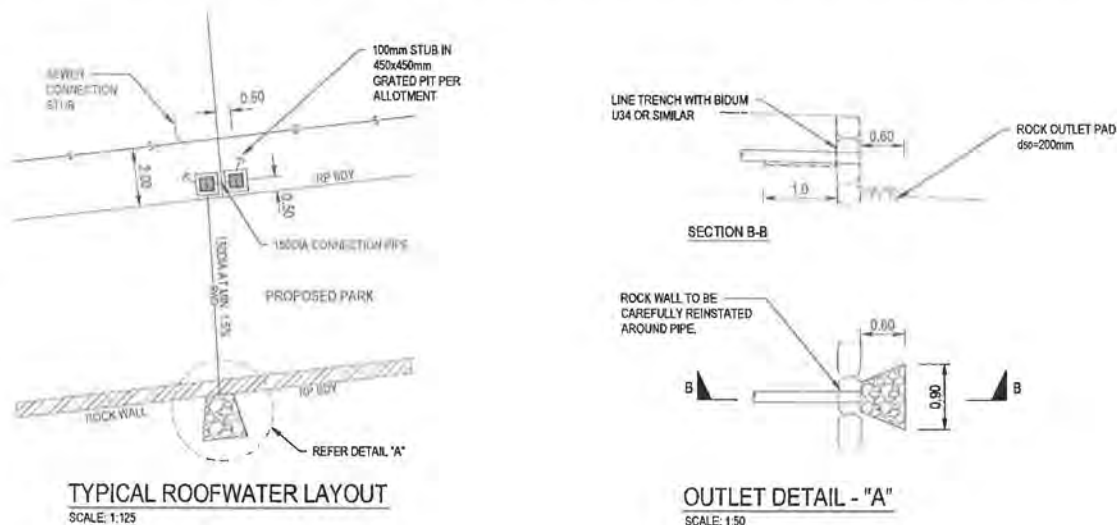
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PROJECT TEAM

Consulting Engineer:



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ROOFWATER NOTES

1. FINAL LOCATION OF ROOFWATER OUTLETS TO THE EXISTING DETENTION BASIN SHALL BE DETERMINED WITH COUNCIL OFFICERS ON SITE BEFORE CONSTRUCTION BEGINS.
2. EACH ALLOTMENT SHALL BE SERVED BY A ROOFWATER CONNECTION.
3. EACH ALLOTMENT SHALL HAVE A 100mm DIA STUB CONNECTING TO A 450 x 450 mm PIT.
4. GALVANISED GRATES TO ALLOTMENT DRAINAGE PITS SHALL HAVE A 450 x 450mm CLEAR OPENING AND A LIGHT DUTY BOLT DOWN GRATE AND FRAME.
5. ALL ROOFWATER AND ALLOTMENT DRAINAGE PIPES SHALL BE CONSTRUCTED WITH A MINIMUM OF 500mm COVER.
6. ALL ROOFWATER AND ALLOTMENT DRAINAGE PIPES SHALL BE uPVC CLASS SN4 UNO.
7. ALL SURFACE LEVELS FOR PITS AND INVERT LEVELS FOR PIPES SHALL BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION.

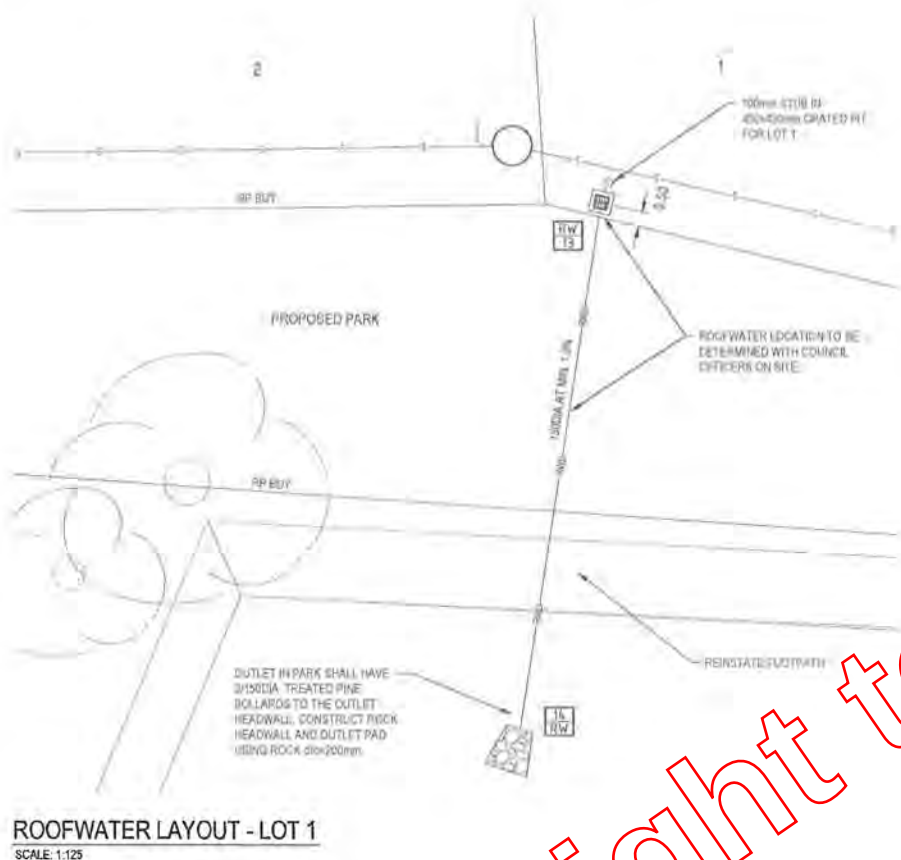
As Constructed Works

it is certified that the works herein have been constructed to Local Government standards, relevant approved specifications and the operational works approval. The As-Constructed Drawings for these works constitutes a true and correct record of the works constructed and complies with the design intent.

Signature RPEQ No. 000872

Date of Practical Completion 20 May 2015

Company Name C R Consultants and Drafting Services



REV	DESCRIPTION	DATE	BY
A	FOR OPERATIONAL WORKS APPROVAL	06/05/2013	BP

Status
AS CONSTRUCTION

Project
39-41 PARK EDGE PLACE
REDLAND BAY

for
P&D SCHMIDT

Title
**ROOFWATER
DETAILS**

Drawn	Date	Chkd	Date
BP	6 05 13	TJS	10 05 13
Design	Date	Apprd	Date
BP	6 05 13	NC	10 05 13
Scale	As Shown	Chkd	Date
AS SHOWN	NC		10 05 13
Project No	Design No	Rev	
11-115	04	B	

RCC REF: QPW001495



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COMPACTION TEST RESULTS

Right to Information Release

REPORT ON FIELD HILF DENSITY (NUCLEAR METER)

Client:	BGA Civil	Job No:	W15/03
Client Address:	19 Chelsea Crescent, Bridgman Downs Qld 4035	Date:	27/02/2015
Project:	39 - 41 Park Edge Place	Tested by:	BD
Location:	Redland Bay, Qld	Checked:	JM
Report Number:	1	Page:	1 of 1
		Order No:	Matt

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W15/1973	W15/1974	W15/1975
Test Location	Lot 3/4	Lot 5/6	Lot 7/8
	Front of Lot	Front of Lot	Front of Lot
	Final Level	Final Level	Final Level
Layer / Elevation	Allotment Fill	Allotment Fill	Allotment Fill
Material Source	On Site	On Site	On Site
Depth Tested	150	150	150
Layer Thickness	200	200	200
Date Tested	27-Feb-15	27-Feb-15	27-Feb-15
Material Sampled	After Compaction	After Compaction	After Compaction
Test Results			
Insitu Wet Density (t/m ³)	2.187	2.025	2.028
Insitu Moisture Content (%)	16.4	14.8	16.0
PCWD (t/m ³)	2.183	2.088	2.093
Peak Added Moisture (%)	+2.0	+2.0	+2.0
Moisture Correction (%)	+2.2	+2.2	+2.2
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
Corrected PCWD (t/m ³)	N/A	N/A	N/A
Assigned Value	No	No	No
HILF DENSITY RATIO (%)	96.5	97.0	96.9
MOISTURE VARIATION (%)			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	Docket #12867		

REPORT ON FIELD HILF DENSITY (NUCLEAR METER)

Client:	BGA Civil	Job No:	J15/03
Client Address:	19 Chelsea Crescent, Bridgman Downs Qld 4035	Date:	19/03/2015
Project:	39 - 41 Park Edge Place	Tested by:	BD
Location:	Redland Bay, Qld	Checked:	JL
Report Number:	2	Page:	1 of 3
		Order No:	Matt

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W15/2296	W15/2297	W15/2298
Test Location	1/15 - 2/1	2/1 - 2A/1	2A/1 - 3/1
	0.9m Below FL	Final Level	Final Level
Layer / Elevation	Trench Backfill	Trench Backfill	Trench Backfill
Material Source	On Site	On Site	On Site
Depth Tested	150	150	150
Layer Thickness	300	300	300
Date Tested	9-Mar-15	9-Mar-15	9-Mar-15
Material Sampled	After Compaction	After Compaction	After Compaction
Test Results			
Insitu Wet Density (t/m ³)	2.007	1.987	1.866
Insitu Moisture Content (%)	13.1	11.3	10.6
PCWD (t/m ³)	2.044	2.003	1.946
Peak Added Moisture (%)	+1.2	+3.2	+4.2
Moisture Correction (%)	+1.4	+3.6	+4.7
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
Corrected PCWD (t/m ³)	N/A	N/A	N/A
Assigned Value	No	No	No
HILF DENSITY RATIO (%)	98.2	99.2	95.9
MOISTURE VARIATION (%)			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	Docket #14811		

REPORT ON FIELD HILF DENSITY (NUCLEAR METER)

Client:	BGA Civil	Job No:	W15/03
Client Address:	19 Chelsea Crescent, Bridgman Downs Qld 4035	Date:	9/03/2015
Project:	39 - 41 Park Edge Place	Tested by:	BD
Location:	Redland Bay, Qld	Checked:	JL
Report Number:	3	Page:	2 of 3
		Order No:	Matt

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W15/2299	W15/2300	W15/2301
Test Location	3/1 - 4/1	4/1 - 5/1	5/1 - 6/1
	Final Level	Final Level	Final Level
Layer / Elevation	Trench Backfill	Trench Backfill	Trench Backfill
Material Source	On Site	On Site	On Site
Depth Tested	150	150	150
Layer Thickness	300	300	300
Date Tested	9-Mar-15	9-Mar-15	9-Mar-15
Material Sampled	After Compaction	After Compaction	After Compaction
Test Results			
Insitu Wet Density (t/m ³)	2.051	2.070	2.051
Insitu Moisture Content (%)	17.0	16.5	16.0
PCWD (t/m ³)	2.104	2.114	2.089
Peak Added Moisture (%)	0.8	-1.8	-1.8
Moisture Correction (%)	-0.9	-2.1	-2.1
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
Corrected PCWD (t/m ³)	N/A	N/A	N/A
Assigned Value	No	No	No
HILF DENSITY RATIO (%)	97.6	97.9	98.2
MOISTURE VARIATION (%)			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	Docket #14811		

NATA

TSBE

15070

Authorised Signatory

Accredited for compliance with ISO/IEC 17025

Date 10/03/2015

REPORT ON FIELD HILF DENSITY (NUCLEAR METER)

Client:	BGA Civil	Job No:	J15/03
Client Address:	19 Chelsea Crescent, Bridgman Downs Qld 4035	Date:	9/03/2015
Project:	39 - 41 Park Edge Place	Tested by:	BD
Location:	Redland Bay, Qld	Checked:	JL
Report Number:	4	Page:	3 of 3
		Order No:	Matt

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1	
Sample Method	AS 1289 1.2.1	
Lab Number	W15/2302	W15/2303
Test Location	6/1 - E/1	1/15 - 2/1
	Final Level	Final Level
Layer / Elevation	Trench Backfill	Trench Backfill
Material Source	On Site	On Site
Depth Tested	150	150
Layer Thickness	300	300
Date Tested	9-Mar-15	9-Mar-15
Material Sampled	After Compaction	After Compaction
Test Results		
Insitu Wet Density (t/m ³)	2.018	2.001
Insitu Moisture Content (%)	13.6	13.9
PCWD (t/m ³)	2.047	2.013
Peak Added Moisture (%)	+1.0	+0.2
Moisture Correction (%)	+1.1	+0.2
Retaining Sieve (mm)	19.0	19.0
Percentage Oversize (wet)	0.0	0.0
Corrected PCWD (t/m ³)	N/A	N/A
Assigned Value	No	No
HILF DENSITY RATIO (%)	98.6	99.4
MOISTURE VARIATION (%)		
Compaction Type	Standard	Standard
Degree of Compaction	95%	95%
Remarks	Docket #14811	

REPORT ON FIELD HILF DENSITY (NUCLEAR METER)

Client:	BGA Civil	Job No:	W15/03
Client Address:	19 Chelsea Crescent, Bridgman Downs Qld 4035	Date:	19/03/2015
Project:	39 - 41 Park Edge Place	Tested by:	BD
Location:	Redland Bay, Qld	Checked:	JL
Report Number:	5	Page:	1 of 2
		Order No:	Matt

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W15/2304	W15/2305	W15/2306
Test Location	Stormwater	Stormwater	Stormwater
	Line Adj Lot 1	Line Adj Lot 2	Line Adj Lot 5
	Final Level	Final Level	Final Level
Layer / Elevation	Stormwater Trench BF	Stormwater Trench BF	Stormwater Trench BF
Material Source	Onsite	Onsite	Onsite
Depth Tested	150	150	150
Layer Thickness	300	300	300
Date Tested	9-Mar-15	9-Mar-15	9-Mar-15
Material Sampled	After Compaction.	After Compaction.	After Compaction.
Test Results			
Insitu Wet Density (t/m ³)	1.977	1.958	1.932
Insitu Moisture Content (%)	13.9	11.2	13.2
PCWD (t/m ³)	2.009	1.967	2.013
Peak Added Moisture (%)	+1.2	+3.2	+1.2
Moisture Correction (%)	+1.4	+3.6	+1.4
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
Corrected PCWD (t/m ³)	N/A	N/A	N/A
Assigned Value	No	No	No
HILF DENSITY RATIO (%)	98.4	99.6	96.0
MOISTURE VARIATION (%)			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	Docket #14811		

REPORT ON FIELD HILF DENSITY (NUCLEAR METER)

Client:	BGA Civil	Job No:	15/03
Client Address:	19 Chelsea Crescent, Bridgman Downs Qld 4035	Date:	9/03/2015
Project:	39 - 41 Park Edge Place	Tested by:	BD
Location:	Redland Bay, Qld	Checked:	JL
Report Number:	6	Page	2 of 2
		Order No:	Matt

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1	
Sample Method	AS 1289 1.2.1	
Lab Number	W15/2307	W15/2308
Test Location	Stormwater	Stormwater
	Line Adj Lot 7	Line Adj Lot 9
	Final Level	Final Level
Layer / Elevation	Stormwater Trench BF	Stormwater Trench BF
Material Source	Onsite	Onsite
Depth Tested	150	150
Layer Thickness	300	300
Date Tested	9-Mar-15	9-Mar-15
Material Sampled	After Compaction	After Compaction
Test Results		
In situ Wet Density (t/m ³)	2.051	1.999
In situ Moisture Content (%)	19.8	17.6
PCWD (t/m ³)	2.139	2.078
Peak Added Moisture (%)	-2.6	-1.5
Moisture Correction (%)	-2.3	-1.8
Retaining Sieve (mm)	19.0	19.0
Percentage Oversize (wet)	0.0	0.0
Corrected PCWD (t/m ³)	N/A	N/A
Assigned Value	No	No
HILF DENSITY RATIO (%)	95.9	96.2
MOISTURE VARIATION (%)		
Compaction Type	Standard	Standard
Degree of Compaction	95%	95%
Remarks	Docket #14811	

SEWER CCTV RESULTS

Right to Information Release

PIPE**SPY**

Pipe Spy Pty Ltd
Biggera Waters
Tel 0412934625, Fax:

Project-information

Project name:
39-41 Park Edge Place

Job No:
Sewer 150

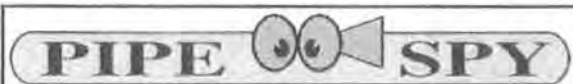
Responsible:
Mark

Date:
11.03.2016

Client **BGA Civil**
Responsible: **Ian/Matt on site**
Department: **CCTV 150 sewer PVC**
PO Box: **39-41**
Street: **Park Edge Place**
Zip/Town: **Redland Bay**
Telephone:
Fax:
Mobile:
E-Mail:

Project manager
Responsible:
Department:
PO Box:
Street:
Zip/Town:
Telephone:
Fax:
Mobile:
E-Mail:

Contractor **Pipe Spy Pty Ltd**
Responsible: **Mark**
Department: **CCTV INSPECTIONS**
PO Box: **PO Box 128**
Street:
Zip/Town: **Biggera Waters**
Telephone: **0412934625**
Fax:
Mobile:
E-Mail: **pipe-spy@bigpond.net.au**



Pipe Spy Pty Ltd
Biggera Waters
Tel 0412934625, Fax:

Σ Ø

Project name:
39-41 Park Edge Place

Job No:
Sewer 150

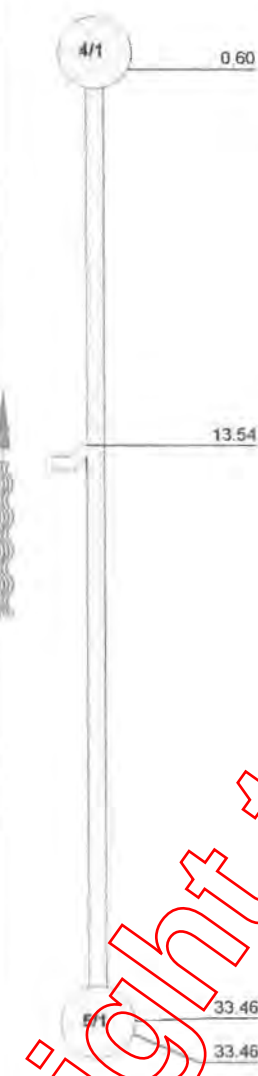
Responsible:
Mark

Date:
11.03.2015

No.	S-ID	ASSET No.	START MH/NODE	FINISH MH/NODE	DATE	STREET NAME	TAPE/MEDIA	MATERIAL	m	m Insp.
1	4		4/1	5/1	11.03.2015	39-41 Park Edge Pl	1	PVC	33.86	33.46
2	7		6/1	E/1	13.03.2015	39-41 Park Edge Pl	1	PVC	24.42	24.42
3	8		6/1	5/1	13.03.2015	39-41 Park Edge Pl	1	PVC	58.46	58.46
4	9		2a/1	3/1	13.03.2015	39-41 Park Edge Pl	1	PVC	23.83	23.83
5	10		3/1	4/1	13.03.2015	39-41 Park Edge Pl	1	PVC	32.03	32.03
6	11		2a/1	2/1	13.03.2015	39-41 Park Edge Pl	1	PVC	2.85	2.85
7	12		2/1	1/15	13.03.2015	39-41 Park Edge Pl	1	PVC	40.79	40.79

Profile: C 150 = 215.8 m (215.8 m)

all sections = 215.8 m (215.8 m)

		Redland Bay BGA Civil		Pipe Spy Pty Ltd Biggera Waters Tel 0412934625, Fax																																			
Inspection-protocol (S-ID: 4)																																							
JOB No.: 12833	ASSET No.:	CONTRACT No.: Ian G	SURVEYED BY: Mark Atkinson	DATE: 11.03.2015	WEATHER: Dry																																		
SUBURB: Redland Bay	MAP / DIR. / GRID:	PAGE / NORTHINGS:	REF. / EASTINGS:	AREA:	SYSTEM CODE:																																		
TOT. LENGTH: 33.46	DIR: U	MATERIAL: Polyvinyl chloride	SHAPE: Circular	YEAR LAID: 2013-2015	PURPOSE: Pre-acceptance																																		
TAPE No.: 1		DIA / HT.: 150		USE: Foul/sanitary																																			
DRAWING No.: 03 D		WIDTH:		TYPE: Pipe																																			
START MH/NODE No.: 4/1		FINISH MH/NODE No.: 5/1																																					
STREET NAME: 39-41 Park Edge Pl		STREET NAME:																																					
DEPTH:		DEPTH:																																					
COVER RL:		COVER RL:																																					
INVERT RL:		INVERT RL:																																					
COMMENT: line in good condition																																							
1:250  <table border="0" style="width: 100%;"> <tr> <td style="width: 30%;">position</td> <td style="width: 40%;">observation</td> <td style="width: 30%;"></td> </tr> <tr> <td>Start of conduit survey length</td> <td></td> <td>0</td> </tr> <tr> <td>Junction, at 02 o'clock, diameter dia 100 mm</td> <td></td> <td>0</td> </tr> <tr> <td>Manhole/node</td> <td></td> <td>0</td> </tr> <tr> <td>Finish of conduit survey length</td> <td></td> <td>0</td> </tr> </table>						position	observation		Start of conduit survey length		0	Junction, at 02 o'clock, diameter dia 100 mm		0	Manhole/node		0	Finish of conduit survey length		0																			
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Start of conduit survey length		0																																					
Junction, at 02 o'clock, diameter dia 100 mm		0																																					
Manhole/node		0																																					
Finish of conduit survey length		0																																					
<table border="1" style="width:100%; border-collapse: collapse; font-size: small;"> <tr> <th colspan="5">Structural</th> <th colspan="5">Service</th> </tr> <tr> <th>Total</th> <th>No off</th> <th>Peak</th> <th>Mean</th> <th>Average</th> <th>Grade</th> <th>Total</th> <th>No off</th> <th>Peak</th> <th>Mean</th> <th>Average</th> <th>Grade</th> </tr> <tr> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>1</td> </tr> </table>						Structural					Service					Total	No off	Peak	Mean	Average	Grade	Total	No off	Peak	Mean	Average	Grade	0	0	0	0	0	1	0	0	0	0	0	1
Structural					Service																																		
Total	No off	Peak	Mean	Average	Grade	Total	No off	Peak	Mean	Average	Grade																												
0	0	0	0	0	1	0	0	0	0	0	1																												

39-41 Park Edge Place Redland Bay sewer BGA.mdb // page: 2

Inspection-protocol (S-ID: 7)

JOB No.: 12833	ASSET No.:	CONTRACT No.: Ian G	SURVEYED BY: Mark Atkinson	DATE: 13.03.2015	WEATHER: Dry
SUBURB: Redland Bay	MAP / DIR. / GRID:	PAGE / NORTHINGS:	REF. / EASTINGS:	AREA:	SYSTEM CODE:

TOT. LENGTH:	24.42	MATERIAL:	Polyvinyl chloride	YEAR LAID:	2013-2015
DIR:	U	SHAPE:	Circular	PURPOSE:	Pre-acceptance
TAPE No.:	1	DIA / HT.:	150	USE:	Foul/sanitary
DRAWING No.:	03 D	WIDTH:		TYPE:	Pipe
START MH/NODE No.:	6/1	FINISH MH/NODE No.:	E/1		
STREET NAME:	39-41 Park Edge Pl	STREET NAME:			
DEPTH:		DEPTH:			
COVER RL:		COVER RL:			
INVERT RL:		INVERT RL:			

COMMENT: line in good condition

1:200	position	observation	
6/1	0.60	Start of conduit survey length	0
	3.02	Junction, at 02 o'clock, diameter dia 100 mm	0
	23.54	Junction, at 02 o'clock, diameter dia 100 mm	0
E/1	24.42	Finish of conduit survey length	0

		Redland Bay BGA Civil		Pipe Spy Pty Ltd Biggera Waters Tel: 0412934625, Fax	
Inspection-protocol (S-ID: 8)					
JOB No.: 12833	ASSET No.:	CONTRACT No.: Ian G	SURVEYED BY: Mark Atkinson	DATE: 13.03.2015	WEATHER: Dry
SUBURB: Redland Bay	MAP / DIR. / GRID:	PAGE / NORTHINGS:	REF. / EASTINGS:	AREA:	SYSTEM CODE:

TOT. LENGTH: 58.46	MATERIAL: Polyvinyl chloride	YEAR LAID: 2013-2015
DIR: D	SHAPE: Circular	PURPOSE: Pre-acceptance
TAPE No.: 1	DIA / HT.: 150	USE: Foul/sanitary
DRAWING No.: 03 D	WIDTH:	TYPE: Pipe

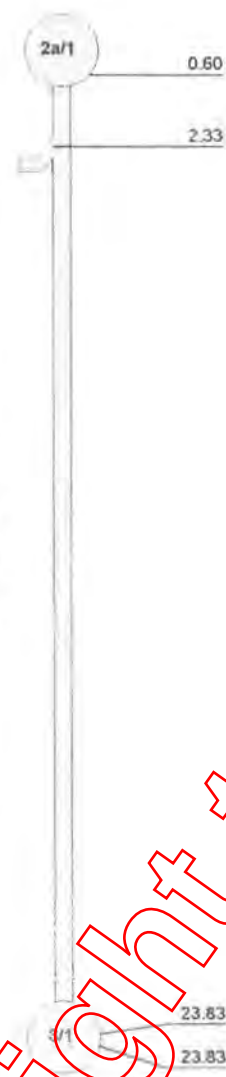
START MH/NODE No.: 6/1	FINISH MH/NODE No.: 5/1
STREET NAME: 39-41 Park Edge Pl	STREET NAME:
DEPTH:	DEPTH:
COVER RL:	COVER RL:
INVERT RL:	INVERT RL:

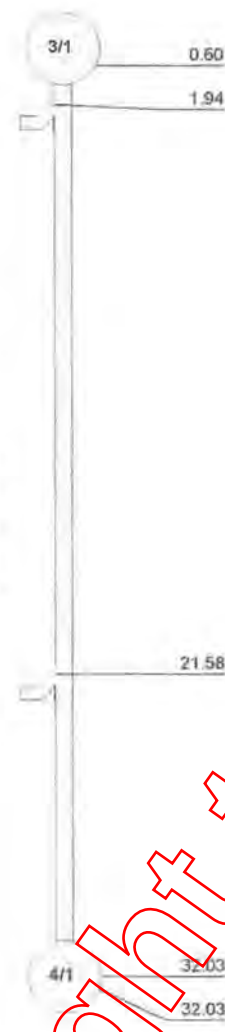
COMMENT: line in good condition

1:450	position	observation	
6/1	0.60	Start of conduit survey length	0
	18.75	Junction, at 10 o'clock, diameter dia 100 mm	0
	38.74	Junction, at 10 o'clock, diameter dia 100 mm	0
	56.73	Junction, at 10 o'clock, diameter dia 100 mm	0
5/1	58.46	Manhole/node	0
	58.46	Finish of conduit survey length	0

Structural						Service					
Total	No off	Peak	Mean	Average	Grade	Total	No off	Peak	Mean	Average	Grade
0	0	0	0	0	1	0	0	0	0	0	1

39-41 Park Edge Place Redland Bay sewer BGA.mdb // page: 4

		Redland Bay BGA Civil		Pipe Spy Pty Ltd Biggera Waters Tel: 0412934625, Fax																																			
Inspection-protocol (S-ID: 9)																																							
JOB No.: 12833	ASSET No.:	CONTRACT No.: Ian G	SURVEYED BY: Mark Atkinson	DATE: 13.03.2015	WEATHER: Dry																																		
SUBURB: Redland Bay	MAP / DIR. / GRID:	PAGE / NORTHINGS:	REF. / EASTINGS:	AREA:	SYSTEM CODE:																																		
TOT. LENGTH: 23.83	DIR: U	MATERIAL: Polyvinyl chloride	SHAPE: Circular	YEAR LAID: 2013-2015	PURPOSE: Pre-acceptance																																		
TAPE No.: 1	DRAWING No.: 03 D	DIA / HT.: 150	WIDTH:	USE: Foul/sanitary	TYPE: Pipe																																		
START MH/NODE No.: 2a/1		FINISH MH/NODE No.: 3/1																																					
STREET NAME: 39-41 Park Edge Pl		STREET NAME:																																					
DEPTH:		DEPTH:																																					
COVER RL:		COVER RL:																																					
INVERT RL:		INVERT RL:																																					
COMMENT: line in good condition																																							
1:175 position observation  Start of conduit survey length 0 Junction, at 02 o'clock, diameter dia 100 mm 0 Manhole/node 0 Finish of conduit survey length 0																																							
<table border="1" style="width:100%; border-collapse: collapse; font-size: small;"> <tr> <th colspan="5">Structural</th> <th colspan="5">Service</th> </tr> <tr> <th>Total</th> <th>No off</th> <th>Peak</th> <th>Mean</th> <th>Average</th> <th>Grade</th> <th>Total</th> <th>No off</th> <th>Peak</th> <th>Mean</th> <th>Average</th> <th>Grade</th> </tr> <tr> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>1</td> </tr> </table>						Structural					Service					Total	No off	Peak	Mean	Average	Grade	Total	No off	Peak	Mean	Average	Grade	0	0	0	0	0	1	0	0	0	0	0	1
Structural					Service																																		
Total	No off	Peak	Mean	Average	Grade	Total	No off	Peak	Mean	Average	Grade																												
0	0	0	0	0	1	0	0	0	0	0	1																												

		Redland Bay BGA Civil		Pipe Spy Pty Ltd Biggera Waters Tel 0412934625, Fax																															
Inspection-protocol (S-ID: 10)																																			
JOB No.: 12833	ASSET No.:	CONTRACT No.: Ian G	SURVEYED BY: Mark Atkinson	DATE: 13.03.2016	WEATHER: Dry																														
SUBURB: Redland Bay	MAP / DIR. / GRID:	PAGE / NORTHINGS:	REF. / EASTINGS:	AREA:	SYSTEM CODE:																														
TOT. LENGTH: DIR: TAPE No.: DRAWING No.:	32.03 U 1 03 D	MATERIAL: SHAPE: DIA / HT.: WIDTH:	Polyvinyl chloride Circular 150	YEAR LAID: PURPOSE: USE: TYPE:	2013-2015 Pre-acceptance Foul/sanitary Pipe																														
START MH/NODE No.: STREET NAME: DEPTH: COVER RL: INVERT RL:		3/1 39-41 Park Edge Pl 4/1																																	
FINISH MH/NODE No.:		4/1																																	
STREET NAME:		STREET NAME:																																	
DEPTH:		DEPTH:																																	
COVER RL:		COVER RL:																																	
INVERT RL:		INVERT RL:																																	
COMMENT: line in good condition																																			
1:250 position observation																																			
																																			
<table border="1" style="width:100%; border-collapse: collapse; font-size: small;"> <thead> <tr> <th colspan="5">Structural</th> <th colspan="5">Service</th> </tr> <tr> <th>Total</th> <th>No. off</th> <th>Peak</th> <th>Mean</th> <th>Average</th> <th>Total</th> <th>No. off</th> <th>Peak</th> <th>Mean</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> </tbody> </table>						Structural					Service					Total	No. off	Peak	Mean	Average	Total	No. off	Peak	Mean	Average	0	0	0	0	0	0	0	0	0	0
Structural					Service																														
Total	No. off	Peak	Mean	Average	Total	No. off	Peak	Mean	Average																										
0	0	0	0	0	0	0	0	0	0																										

		Redland Bay BGA Civil		Pipe Spy Pty Ltd Biggera Waters Tel: 0412934625, Fax:	
Inspection-protocol (S-ID: 11)					
JOB No.: 12833	ASSET No.:	CONTRACT No.: Ian G	SURVEYED BY: Mark Atkinson	DATE: 13.03.2015	WEATHER: Dry
SUBURB: Redland Bay	MAP / DIR. / GRID:	PAGE / NORTHINGS:	REF. / EASTINGS:	AREA:	SYSTEM CODE:

TOT. LENGTH: 2.85	MATERIAL: Polyvinyl chloride	YEAR LAID: 2013, 2015
DIR: D	SHAPE: Circular	PURPOSE: Pre-acceptance
TAPE No.: 1	DIA / HT.: 150	USE: Foul/sanitary
DRAWING No.: 03 D	WIDTH:	TYPE: Pipe

START MH/NODE No.: 2a/1	FINISH MH/NODE No.: 2/1
STREET NAME: 39-41 Park Edge PI	STREET NAME:
DEPTH:	DEPTH:
COVER RL:	COVER RL:
INVERT RL:	INVERT RL:

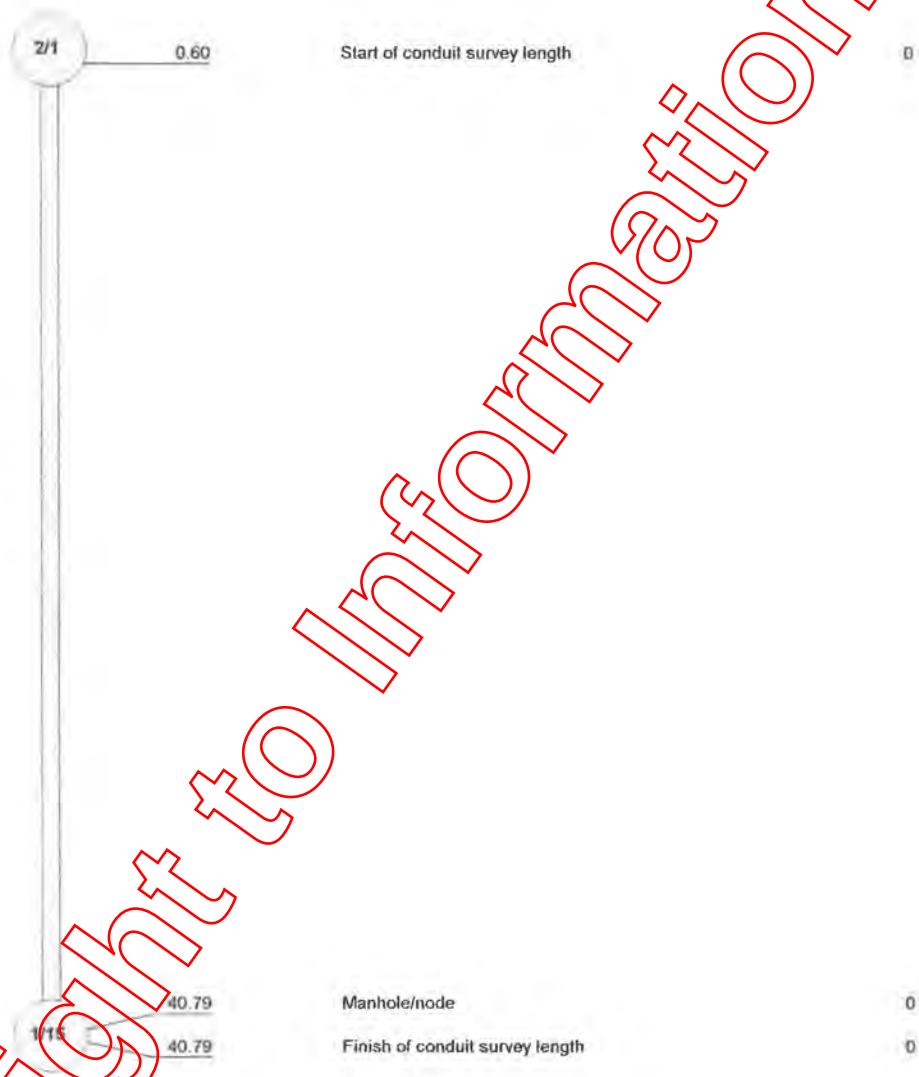
COMMENT: line in good condition

1:25 position observation



Structural					Service				
Total	No off	Peak	Mean	Average	Total	No off	Peak	Mean	Average
0	0	0	0	0	0	0	0	0	0

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		Redland Bay BGA Civil		Pipe Spy Pty Ltd Biggera Waters Tel: 0412934625, Fax:																															
Inspection-protocol (S-ID: 12)																																			
JOB No.: 12833	ASSET No.:	CONTRACT No.: Ian G	SURVEYED BY: Mark Atkinson	DATE: 13.03.2015	WEATHER: Dry																														
SUBURB: Redland Bay	MAP / DIR. / GRID:	PAGE / NORTHINGS:	REF. / EASTINGS:	AREA:	SYSTEM CODE:																														
TOT. LENGTH: 40.79	DIR: D	MATERIAL: Polyvinyl chloride	SHAPE: Circular	YEAR LAID: 2012-2015	PURPOSE: Pre-acceptance																														
TAPE No.: 1	DRAWING No.: 03 D	DIA / HT.: 160	WIDTH:	USE: Foul/sanitary	TYPE: Pipe																														
START MH/NODE No.: 2/1		FINISH MH/NODE No.: 1/15																																	
STREET NAME: 39-41 Park Edge Pl		STREET NAME:																																	
DEPTH:		DEPTH:																																	
COVER RL:		COVER RL:																																	
INVERT RL:		INVERT RL:																																	
COMMENT: line in good condition																																			
1:300 position observation																																			
																																			
Manhole/node																																			
Finish of conduit survey length																																			
<table border="1" style="width:100%; border-collapse: collapse; font-size: small;"> <tr> <th colspan="5">Structural</th> <th colspan="5">Service</th> </tr> <tr> <th>Total</th> <th>No. off</th> <th>Peak</th> <th>Mean</th> <th>Average</th> <th>Total</th> <th>No. off</th> <th>Peak</th> <th>Mean</th> <th>Average</th> </tr> <tr> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> </table>						Structural					Service					Total	No. off	Peak	Mean	Average	Total	No. off	Peak	Mean	Average	0	0	0	0	0	0	0	0	0	0
Structural					Service																														
Total	No. off	Peak	Mean	Average	Total	No. off	Peak	Mean	Average																										
0	0	0	0	0	0	0	0	0	0																										

SEWER PRESSURE TESTS

Right to Information Release

SEWER VACUUM TEST - REPORT

Job Location: 39 - 41 Park Edge Place, Redland Bay Qld Job N°: WPT15/19
Client: BGA Civil Report N°: 1
Section Tested: New Sewer Lines Date: 30/03/15
Test Date: 30/03/15 Order N°: Ian Tested By: JM
Client Address: 19 Chelsea Crescent, Bridgeman Downs Qld 4035 Checked: JM

Adopted Standard or Specification: WSA 02-2002-2.3 CSC GCCC PRSC BCC Other specify:

TESTING DATA		SEWER LINE DATA*		
Location of Test Point	Sewer Lines	Line N°	Diameter (mm)	length (m)
N° of Lines Tested	4	1/1B - 2/1	150 Ø	40m
Initial Vacuum/Pressure(kPa)	-50Kpa	2/1 - 2A/1	150 Ø	3m
Stability Period	3 mins	2A/1 - 3/1	150 Ø	22m
Start Vacuum/Pressure (kPa)	-50Kpa	3/1 - 4/1	150 Ø	30m
Accepted Vacuum/Pressure loss	< 2Kpa			
Duration of Accepted Loss	20 mins			

SEWER VACUUM TEST - REPORT

Job Location: 39 - 41 Park Edge Place, Redland Bay Qld Job N°: WPT15/19
Client: BGA Civil Report N°: 2
Section Tested: New Sewer Lines Date: 30/03/15
Test Date: 30/03/15 Order N°: Ian Tested By: JM
Client Address: 19 Chelsea Crescent, Bridgeman Downs Qld 4035 Checked: JM

Adopted Standard or Specification: WSA 02-2002-2.3 CSC GCCC PRSC BCC Other specify:

TESTING DATA		SEWER LINE DATA*		
Location of Test Point	Sewer Lines	Line N°	Diameter (mm)	length (m)
N° of Lines Tested	3	4/1 - 5/1	150 ø	33m
Initial Vacuum/Pressure(kPa)	-50Kpa	5/1 - 6/1	150 ø	58m
Stability Period	3 mins	6/1 - E/1	150 ø	22m
Start Vacuum/Pressure (kPa)	-50Kpa			
Accepted Vacuum/Pressure loss	< 2Kpa			
Duration of Accepted Loss	20 mins			