

0 10 20 30 40 50 METRES

□ DENOTES PROPOSED ELECTRICAL SUBSTATION

● DENOTES PROPOSED DRAINAGE

\* DENOTES PROVIDED BY CASE 15399W

1. DESIGNER AND WATER SERVICES COORDINATOR

DALCHEK PTY LTD (SHEPHERD NO.28)

15399W WY, 15399W WY, 15399W WY

PH No. (02) 422 8181

FOR: LUDRO PTY LTD (LUDRO &amp; PTY LTD)

LEVEL 27 - 14-28 MARTIN PLACE SYDNEY NSW 2000

PH: 9221111

2. THE PROPOSED WORKS AND MATERIALS SHALL BE IN ACCORDANCE WITH THE

SERVICING CODE OF AUSTRALIA WSA 0-2002-22 SYDNEY WATER EDITION VERSION 4 (2017)

INCLUDING THE SYDNEY WATER SUPPLEMENT &amp; ADDENDUMS.

THE CONTRACTOR MUST HAVE A COPY OF THESE ON SITE AT ALL TIMES.

3. ALL STRUCTURES TO BE CONSTRUCTED TO PROPOSED FINISHED SURFACE LEVELS.

ALL LEVELS REFER TO PROPOSED FINISHED SURFACE LEVELS.

IN PARTICULAR IN OR ADJACENT TO ROAD PROJECT SUPERVISOR'S DESIGNER TO BE INCHARGED

OF ANY DISCREPANCIES.

4. ALL BUILDING UNITS, FINISHED SURFACE LEVELS, STORMWATER INFORMATION, AND

PLANS REFERENCE ISSUED FOR REVIEW PLANS 11016/02/04 REGION B DATED OCTOBER 2017

THE MINIMUM NUMBER OF FIELD COMPACTION TESTS REQUIRED TO SATISFY THE SERVICING CODE

OF AUSTRALIA WSA 0-2002-22 SYDNEY WATER EDITION VERSION 4 (2017)

COMPACTION TESTS MAY BE REDUCED BY 5% IF THE CONSTRUCTOR PROVIDES DOCUMENTATION

FROM THEM SELF AND THE TESTING COMPANY STATING EXTENT AND COMPLIANCE.

PIPE EMBEDMENT ZONE - 10 TESTS REQUIRED (SEE NOTES A &amp; B)

TRENCH FILL ZONE (TRAFFICABLE) - 6 TESTS REQUIRED

TRENCH FILL ZONE (NON TRAFFICABLE) - 24 TESTS REQUIRED

TRENCH FILL ZONE (MAINTENANCE STRUCTURES) - 96 TESTS REQUIRED

TRENCH FILL ZONE - TOTAL - 96 TESTS REQUIRED

PIPE EMBEDMENT COMPACTION

(NUMBER OF TESTS TO BE VERIFIED BY ACCREDITED FIELD TESTER NUMBER ABOVE ARE A GUIDE ONLY)

A) FOR RETICULATION SERVICES (UP TO 200MM) NO COMPACTION TEST IS REQUIRED PROVIDED THAT

7mm, 10mm OR 14mm NOMINAL SINGLE-SIZE AGGREGATE ARE PLACED, SPREAD, AND TAMPED

WATER PROOFING IS REQUIRED FOR SERVICES LARGER THAN 200MM PRIOR TO CONSTRUCTION. THE

CONSTRUCTOR IS REQUIRED TO PROVIDE EVIDENCE THAT THE CORRECT SIZE AGGREGATE HAS BEEN

USED AND THAT THE CORRECT TAMPING METHOD HAS BEEN USED.

B) FOR UNDERGROUND LATERAL CULVERTS (SMALLER THAN SINGLE-SIZE AGGREGATE ARE USED, COMPACTION TESTS

EITHER IN THE FORM OF PRE-QUALIFICATION TESTING OR IN SITU TESTING AS NAMED IN THE

CODE SHALL BE UNDERTAKEN FOR ALL SIZES.

NOTE: A HIGHER LEVEL OF COMPACTION MAY BE REQUIRED TO COMPLY WITH THE CONSTRUCTOR WILL

HAVE TO USE WITH THE OWN CONTRACTOR OR QUALITY SPECIFICATION.

6. ALL LEVELS ELECTRONICALLY GENERATED, NO LEVEL BOOK AVAILABLE.

7. THE REVIEW OF ENVIRONMENTAL FACTORS IS AN INTERNAL PART OF THE DESIGN AND MUST

BE RE-DO IN CONJUNCTION WITH THIS PLAN.

8. PRIOR TO ANY EXCAVATION THE CONSTRUCTOR MUST HAVE A CURRENT COPY OF THE UNDERGROUND

SERVICES REPORT WHICH IS TO BE READ IN CONJUNCTION WITH THIS PLAN.

9. SERVICES SHOWN FROM DATA BEFORE YOU DIG SERVICES SEARCH ARE INDICATIVE ONLY. AUTHORITY

AND ACCURACY SHOULD NOT BE PRESUMED AND SHOULD BE CONFIRMED BY THE CONSTRUCTOR PRIOR

TO ANY EXCAVATION WORKS ON SITE.

10. BUILDING OVER/ADJACENT TO SEWER - CONDITIONS MAY APPLY. REFER TO DALCHEK FOR DETAILS.

11. ALL EXCAVATION, SHORING EXAMINATION AND STABILITY OF ADJACENT STRUCTURES/SERVICES (DEINELINGS

IS THE RESPONSIBILITY OF THE CONSTRUCTOR. USE OF SHORING BOXES IS NOT A FORM OF STABILITY

CONTROL, NEITHER IS SAND CEMENT BENCHALL OR CONCRETE ENCASEMENT.

12. ALL JOINTS FOR THE PIPES ARE TO BE LOCATED 0.7m MIN. OFF THE DOWNSTREAM PROPERTY

BOUNDARY (WHICH INCLUDES FILLING) OR DOWNSTREAM EXISTING BOUNDARY OR 1.0m MIN. OFF THE

DOWNSTREAM STRUCTURE.

13. IT IS THE CONSTRUCTORS RESPONSIBILITY TO PROVIDE THE CHANGES FOR THE PIPES, THE LENGTH OF THE PIPES,

THE TYPE OF CONNECTION USED, THE LENGTH OF THE ID AND THE INVERT LEVEL AT THE POP (IF APPLICABLE).

14. THE TOTAL LENGTH OF THE DRAIN PIPES EXCLUDING RISERS IS APPROXIMATELY 95m. PIPES TO HAVE MINIMUM STIFFNESS

RINGS OF 300N/JOINT TO BE SILENT WELDED.

15. CONSTRUCTORS TO ENSURE THAT WORKS ARE CONSTRUCTED IN ACCORDANCE WITH SYDNEY WATER'S

DESIGN TO 1500mm DRAINAGE CODE (ISSUE C 18-00-15), DTC-222 (ISSUE D 18-00-15), DTC-221 (ISSUE B 01-01-13),

DTC-222 (ISSUE C 18-00-15).

- FOR MH'S WHERE DEPTH TO IL IS 1.2m-4m, RISERS -DRAIN OR -CATCH IN A RESIDENTIAL AREA

NOT SUBJECT TO VEHICULAR WHEEL LOADS USE DTC-200 (ISSUE B 18-00-15)

16. PIPES TO BE CONCRETE ENCASED SHOWN ACCORDING TO:-

REFER TO SELF-100-V

EACH SECTION OF PIPE SHALL BE CONCRETE ENCASED IN THE FOLLOWING MANNER:

EACH PIPE JOINT REQUIRES A 12mm THICK CORROSIBLE MEMBRANE TO BE INSERTED

BETWEEN EACH SECTION OF PIPE. THE MEMBRANE SHALL BE 100mm WIDE AND 100mm DEEP

THE DOWEL PIN IS TO BE CENTRALLY PLACED IN CONCRETE WITH A MINIMUM BAR LENGTH OF 900mm

AT THE END OF EACH SECTION OF EXCAVATION A 400mm RADIUS PIPE IS TO BE INSTALLED.

17. AREAS HATCHED THIS NOT PRINTED:-

18. ALL M.S.'S TO CONFORM TO WSA-137, "INDUSTRY STANDARD FOR MAINTENANCE SHAFTS AND MAINTENANCE CHAMBERS (OF SEWERAGE)".

SHEET 2

## LOCALITY SKETCH AND ORIGIN OF LEVELS

(NOT TO SCALE)

A1 ISSUED FOR REVIEW M.P. 12-01-18

REVISED M.P. 12-01-18

DESIGNED M.P. 12-01-18

CHECKED M.P. 12-01-18

APPROVED D.L. 12-01-18

ISSUED 12-01-2018

WORK AS CONSTRUCTED CERTIFICATION

DEVELOPER

WATER SERVICE COORDINATOR

CONSTRUCTOR

COMPLETED

DESIGNER

W.A.G. PREPARED

I CERTIFY THAT THE WORK HAS BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS

PIPE SCHEDULE

PIPE JOINT METHOD NOTES

PIPE JOINT METHOD NOTES

PIPE JOINT METHOD NOTES

PIPE JOINT METHOD NOTES

PIPE JOINT METHOD NOTES

PIPE JOINT METHOD NOTES

PIPE JOINT METHOD NOTES

PIPE SCHEDULE

PIPE JOINT METHOD NOTES

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PIPE JOINT METHOD NOTES

PIPE JOINT METHOD NOTES

PIPE JOINT METHOD NOTES

PIPE JOINT METHOD NOTES

PIPE JOINT METHOD NOTES

AUSTRALIAN HEIGHT DATUM

SCALES

PLAN 1:500 SECTION 1:125

CHORD SECTION

VERTICAL

VERTICAL

VERTICAL

VERTICAL

NO AMENDMENTS ARE TO BE MADE TO THIS PLAN

WITHOUT REFERENCE TO SYDNEY WATER. THE PLAN

AND ANY AMENDMENTS ARE THE PROPERTY OF

SYDNEY WATER AND ACCEPTS NO RESPONSIBILITY.

SYDNEY WATER CORPORATION

Case No. 163997WW

PENRITH SEWERAGE

DRAINS TO

ST MARY'S S.T.0011

Sydney WATER

FOR CONSTRUCTION

IN ACCORDANCE WITH

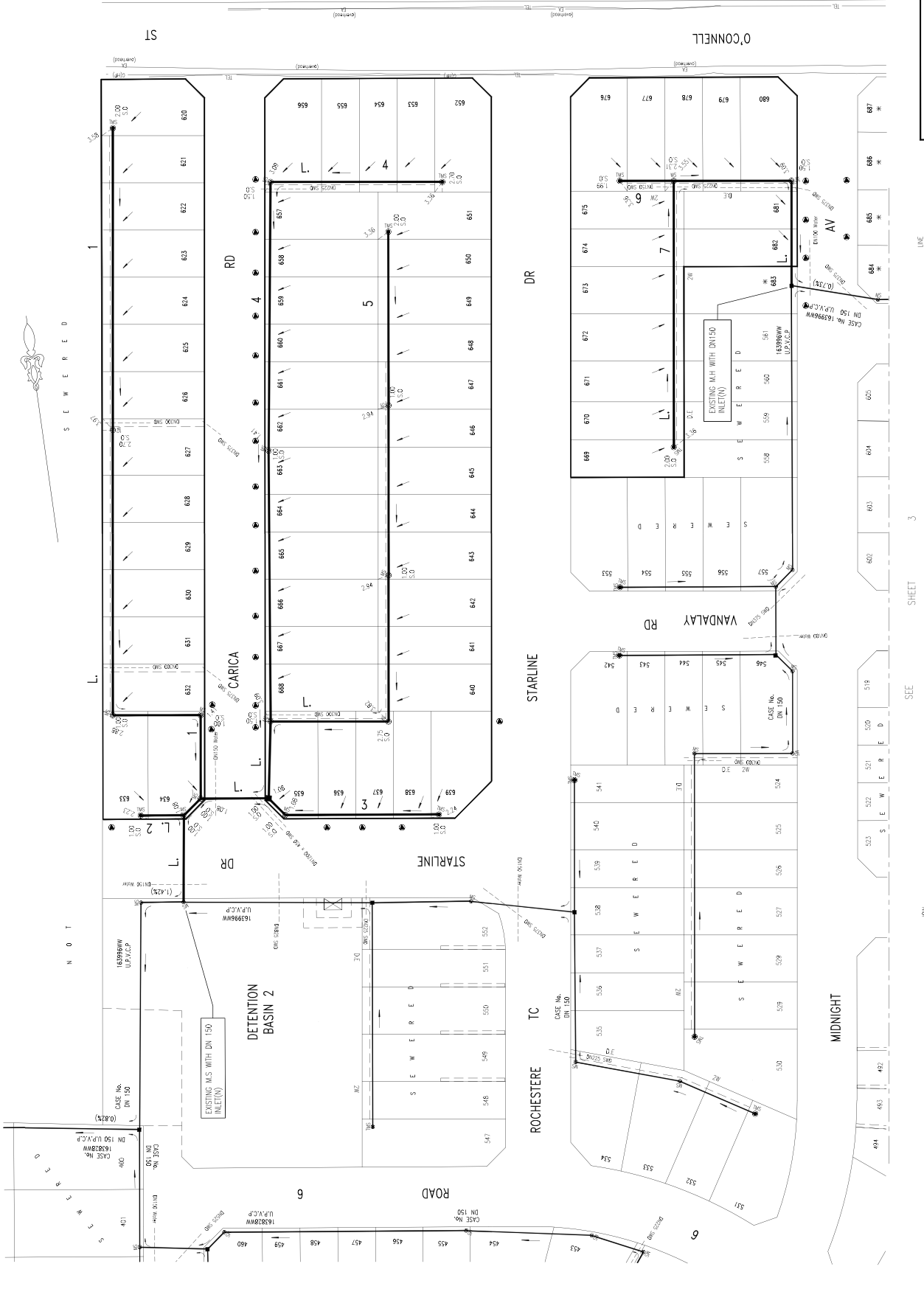
PLAN 163997WW

ISSUE A

DATE 28/02/2018

Qalchek Pty Ltd  
FOR CONSTRUCTION  
IN ACCORDANCE WITH  
PLAN 163997WW ISSUE A  
DATE 28/01/2018

WORK AS CONSTRUCTED CERTIFICATION		SYDNEY WATER CORPORATION	
DEVELOPER	CONTRACTOR	COMPLETED	W.A.C. PREPARED
CASE No. 163997WW		SHT. 2 OF 4 SPTS.	
FOR DETAILS OF SERVICES SEE SHEET 1		SYDNEY WATER CORPORATION	



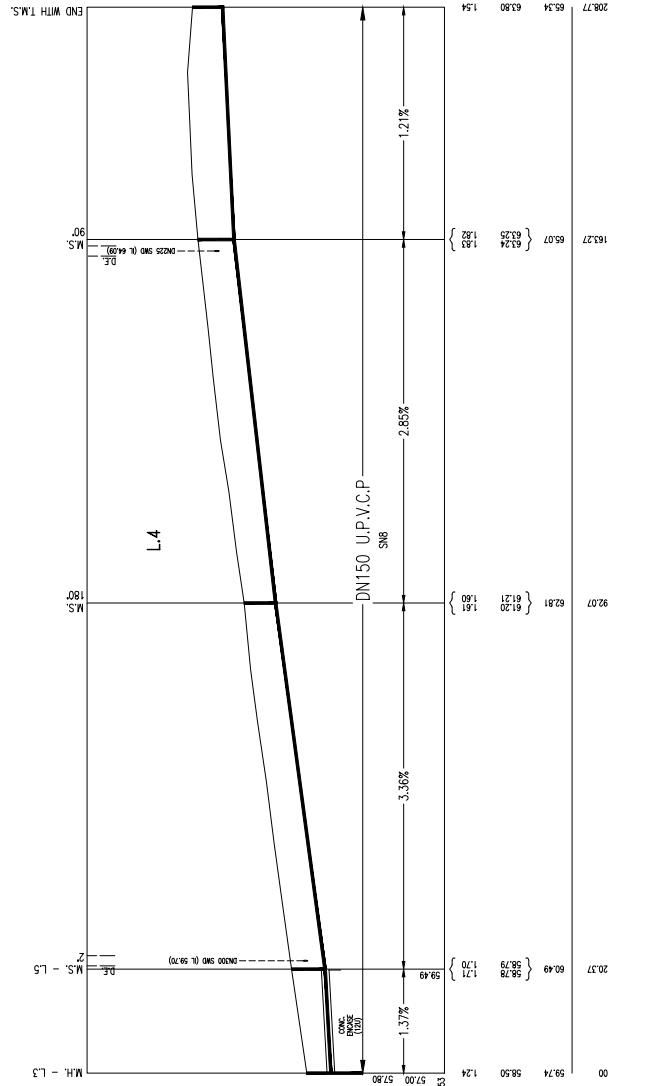
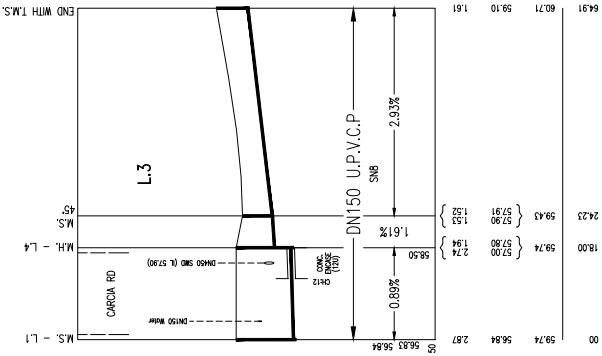
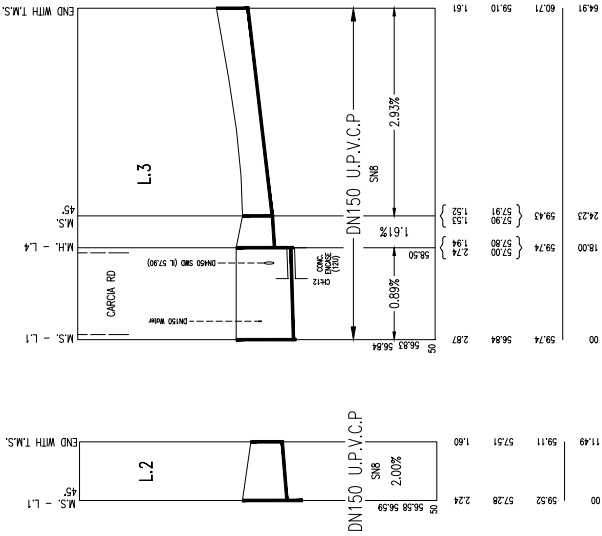
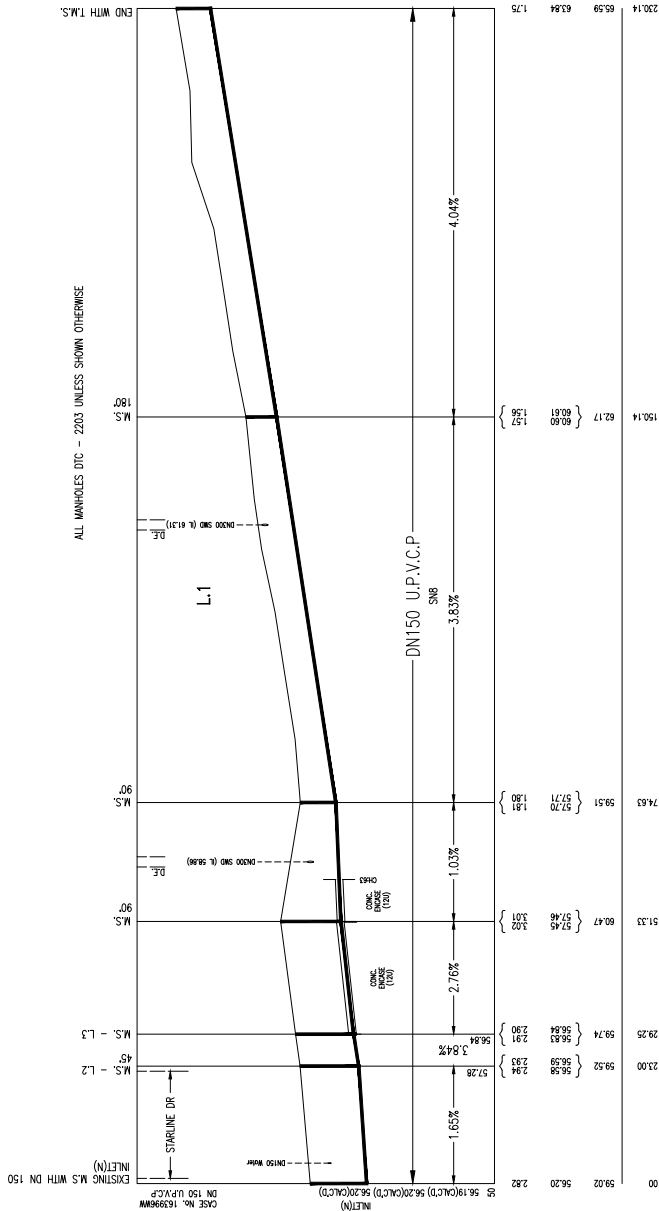
SEE SHEET 3

JOIN

LINE



NO.	ISSUED FOR REVIEW	DATE	REVISION	DATE
1	12/01/18			

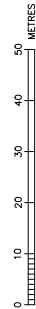


LINE No.	CH. No.	TYPE (M/M/NO)	IN. CLASS OF INSER COVER	MATERIAL (PVC-U, PRE-CAST IN SITU CONC. PRE-CAST CONC. OTHER - SPECIFY)	COMMENTS (BRAND, DATE / ISSUE, DATE / M. OTHER AS REQUIRED)
1	23.00	M.S.	300	MS-137	MS-137
	23.01	M.S.	300	MS-137	MS-137
	23.02	M.S.	300	MS-137	MS-137
	23.03	M.S.	300	MS-137	MS-137
	23.04	M.S.	300	MS-137	MS-137
	23.05	M.S.	300	MS-137	MS-137
	23.06	M.S.	300	MS-137	MS-137
	23.07	M.S.	300	MS-137	MS-137
	23.08	M.S.	300	MS-137	MS-137
	23.09	M.S.	300	MS-137	MS-137
	23.10	M.S.	300	MS-137	MS-137
	23.11	M.S.	300	MS-137	MS-137
	23.12	M.S.	300	MS-137	MS-137
	23.13	M.S.	300	MS-137	MS-137
	23.14	M.S.	300	MS-137	MS-137
	23.15	M.S.	300	MS-137	MS-137
	23.16	M.S.	300	MS-137	MS-137
	23.17	M.S.	300	MS-137	MS-137
	23.18	M.S.	300	MS-137	MS-137
	23.19	M.S.	300	MS-137	MS-137
	23.20	M.S.	300	MS-137	MS-137
	23.21	M.S.	300	MS-137	MS-137
	23.22	M.S.	300	MS-137	MS-137
	23.23	M.S.	300	MS-137	MS-137
	23.24	M.S.	300	MS-137	MS-137
	23.25	M.S.	300	MS-137	MS-137
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	23.40	M.S.	300	MS-137	MS-137
	23.41	M.S.	300	MS-137	MS-137
	23.42	M.S.	300	MS-137	MS-137
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	25.00	M.S.	300	MS-137	MS-137

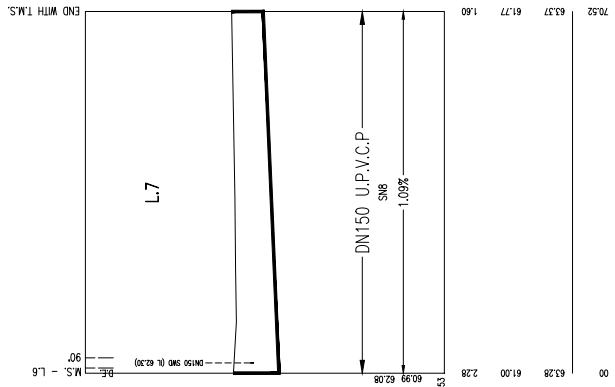
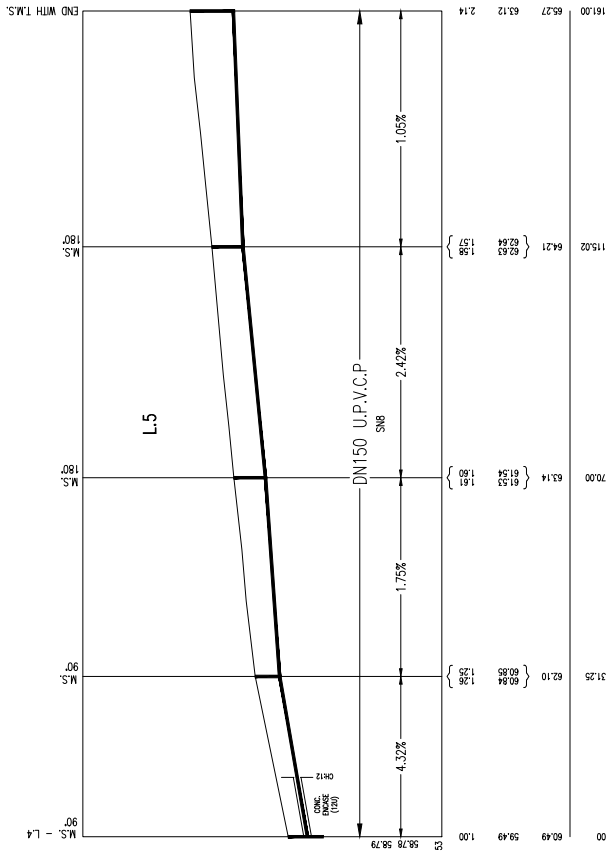
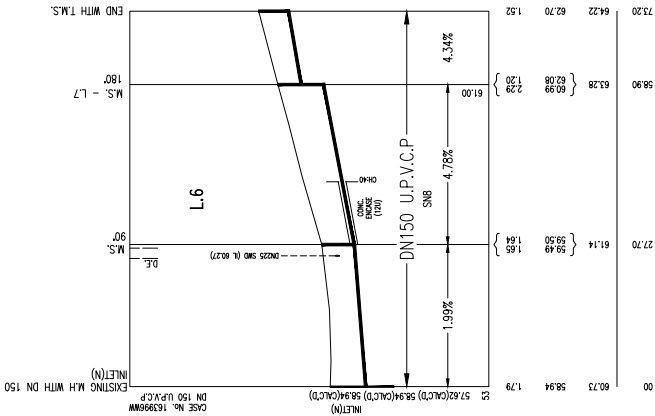
CONTINUED SHEET 4

Qalchek Pty Ltd  
FOR CONSTRUCTION  
IN ACCORDANCE WITH  
PLAN 163997NMW  
DATE 28/02/2018

WORK AS CONSTRUCTED CERTIFICATION		STORM WATER CORPORATION	
DEVELOPER	W.S.C.	CASE NO. 163997NMW	SHT 3 OF 4 SHYS.
W.S.C. CONSTRUCTION COMPLETED	W.A.C. PREPARED	FOR DETAILS OF SERVICES SEE SHEET 1	
SIGNATURE		SIGNATURE	
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORKS CONSTRUCTED DRAWINGS		I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORKS CONSTRUCTED DRAWINGS	



ISSUED FOR REVIEW	DATE	DESIGNED: M.P.
AMENDMENT DESCRIPTION	BT	REVIEWED: D.L.
FILE LOCATION: PAT18NMW-A	DATE	VERIFIED: D.L.
		DRAWN: M.P.
		APPROVED: D.L.



LINE No.	CL No.	TYPE (H/MS/MC)	IN PLACES OF RISER	MATERIAL (PVC-H/PE/GRP-CAST IN SITU CONC-PRE-CAST OR OTHER - SPECIFY)	COMMENTS (BRIDGE NO./ISSUE, DATE/NA. OTHER AS REQUIRED)
5	31.25	M.S	225	W8-137	W8-137
	31.00	M.S	225	W8-137	W8-137
	31.75	M.S	225	W8-137	W8-137
6	31.25	M.S	225	W8-137	W8-137
	31.00	M.S	225	W8-137	W8-137
	31.75	M.S	225	W8-137	W8-137
7	32.00	M.S	225	W8-137	W8-137
	31.50	M.S	225	W8-137	W8-137
	32.50	M.S	225	W8-137	W8-137

