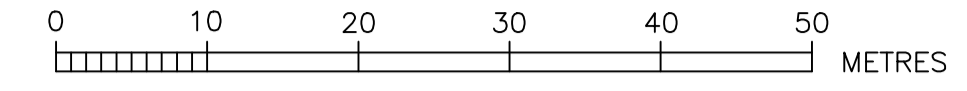
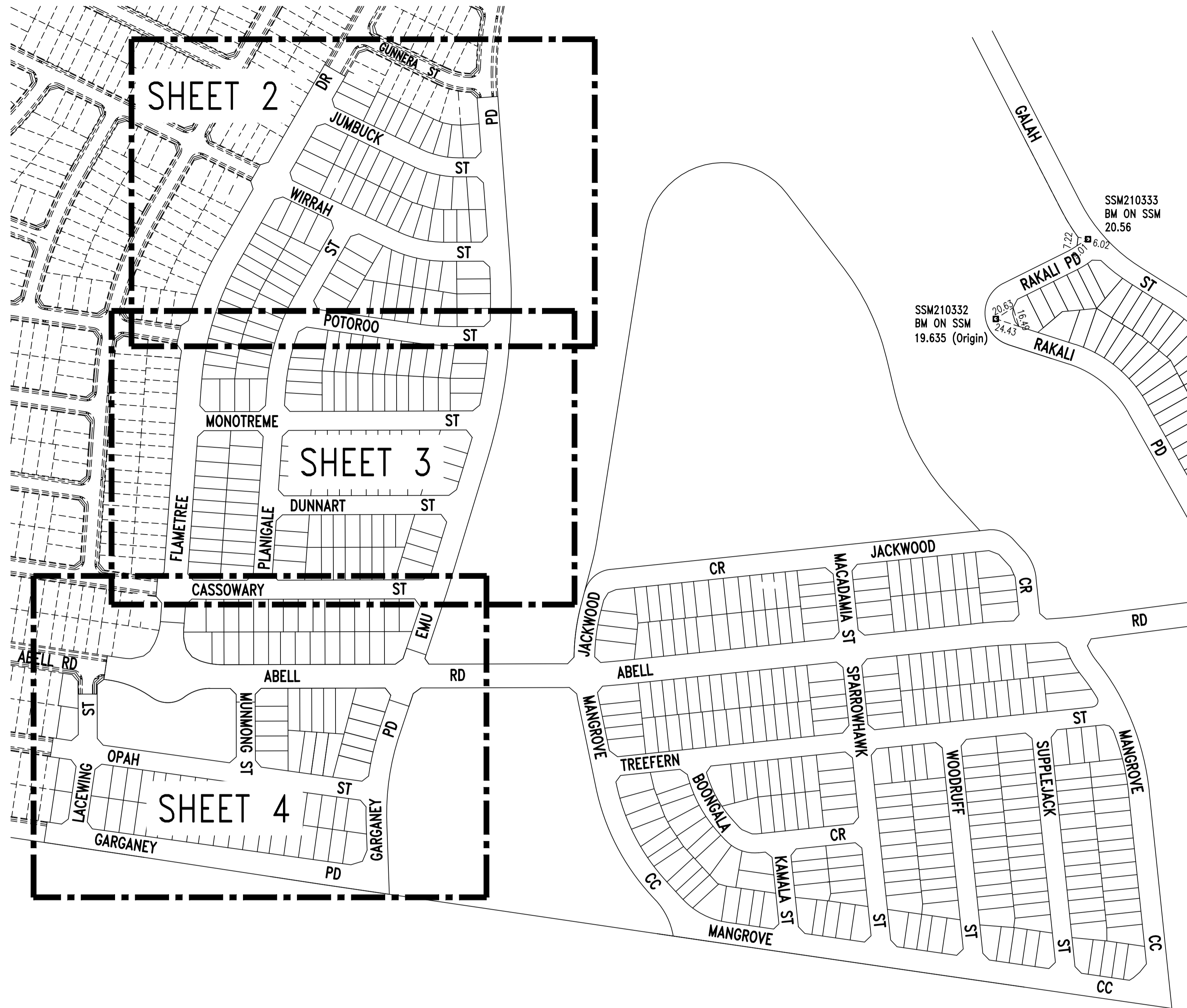


A1



M.G.A. ZONE 56 M.G.A. DATUM: GDA94

- DESIGNER AND WATER SERVICING COORDINATOR:
QALCHEK PTY LTD (CERTIFIED No.289)
UNIT 2, LEVEL 1, 15-17 DAVID ROAD, EMU PLAINS 2750
PH. No. (02) 4722 8181

FOR:
WOORONG PARK PTY LTD
c/o J WYNDHAM PRINCE
580 HIGH STREET, PENRITH, NSW 2750
PH. 02 4720 3300
- THE WORKS AND MATERIALS ARE IN ACCORDANCE WITH THE WATER SUPPLY CODE OF AUSTRALIA (WSA 03-2011-3.1) INCLUDING THE SYDNEY WATER SUPPLEMENT (2014) AND APPENDICES.
- MAINS LAID GENERALLY AS SHOWN AT STANDARD DEPTH BELOW KERB INLET EXCEPT WHERE OTHERWISE SHOWN.
- ALL EXCAVATION, SHORING EXCAVATION AND STABILITY OF ADJACENT STRUCTURES/SERVICES/DWELLINGS WAS THE RESPONSIBILITY OF THE CONSTRUCTOR.
- ALL BUILDING LAYOUTS, FINISHED SURFACE LEVELS, STORMWATER INFORMATION, AND GENERAL CIVIL ENGINEERING DETAILS TAKEN FROM:
CIVIL BASEPLAN: 9985_Road Lot Base issue_200428.dwg (PROVIDED BY JWP 08.05.20)
SURFACE INFORMATION: P7A lin (3).dwg (PROVIDED BY JWP 08.05.20)
SWD INFORMATION SUBDIVISION: 998512CC DRAINAGE - PCT 7.dwg (PROVIDED BY JWP 08.05.20)
- CONDITIONS FOR EMBEDMENT, BACKFILL AND TESTING REQUIREMENTS ARE AS FOLLOWS:

- ALL POTABLE WATER ROAD CARRIAGEWAY CROSSINGS FOR EXISTING AND NEW ROADS BEDDED AND BACKFILLED WITH SAND/CEMENT. SAND/CEMENT RATIO 14:1 AND WAS PLACED DRY.

- FOR ANY WATERMAIN LOCATED WITHIN 1.0m OF A ROAD SHOULDER OR KERB AND GUTTER IN THE VERGE OR FOOTPATH THE EMBEDMENT AND BACKFILL WAS COMPACTED TO A DENSITY INDEX OF 95%. ALL TESTS (EMBEDMENT AND BACKFILL) WERE DONE AS FOR TRAFFICABLE AREA.

THE MINIMUM NUMBER OF FIELD COMPACTION TESTS CONDUCTED TO SATISFY THE CONDITIONS ABOVE AS WELL AS THE WATER SUPPLY CODE OF AUSTRALIA ARE:

PIPE EMBEDMENT ZONE: 0 TESTS CONDUCTED (LETTER PROVIDED)

TRENCH FILL ZONE (TRAFFICABLE): 114 TESTS CONDUCTED

TRENCH FILL ZONE PROPERTY SERVICES: 53 TESTS CONDUCTED

COMPACTION TESTS - TOTAL: 167 TESTS CONDUCTED
- ALL PROPERTY (MAIN TO METER) SERVICES WERE CONSTRUCTED TO SYDNEY WATER'S INSTALLATION REQUIREMENTS BY A LICENSED PLUMBER AND ACCREDITED DRILLER. THE WORKS WERE INSTALLED IN ACCORDANCE WITH THE CURRENT SYDNEY WATER PROPERTY SERVICE (MAIN TO METER) INSTALLATIONS TECHNICAL REQUIREMENTS, NSW CODE OF PRACTICE FOR PLUMBING AND DRAINAGE, AND AS/NZ 3500.
- ALL REDUNDANT SURFACE FITTINGS AND INDICATOR PLATES WERE RECOVERED.
- THE WORKS WERE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING SYDNEY WATER'S DEEMED TO COMPLY DRAWINGS:
- FOR HORIZONTAL BENDS TYPE 2 DTC-1111 (ISSUE B 29.02.12)
- FOR TAPERS DTC-1112 (ISSUE B 29.02.12)
- FOR TEES DTC-1113 (ISSUE B 29.02.12)
- FOR VERTICAL BENDS & HYDRANT BENDS DTC-1114 (ISSUE A 31.01.12)
- FOR STOP VALVES NOTE THAT VALVES DN200 AND UNDER DO NOT REQUIRE ANCHORING AS NOTED IN SYDNEY WATER'S EMAIL 08.08.14
- ALL ROAD CROSSINGS AND ALL MAINS LOCATED WITHIN ROAD CARRIAGEWAYS WERE BEDDED AND BACKFILLED WITH SAND/CEMENT (14:1 RATIO). MINIMUM COVER OF SAND/CEMENT BACKFILL ON POTABLE WATERMAIN WAS 300mm. ALL TRENCHES OTHER THAN IN CARRIAGEWAY WERE BACKFILLED AS FOR A TRAFFICABLE AREA PER SECTION 17 OF WSA 03-2011-3.1.

LOCALITY PLAN

(NOT TO SCALE)

PLAN DRAWN DATE: 10.05.2022 VERSION: 1

SHEET 1 OF 6 SHEETS

1	WORK AS CONSTRUCTED	J.V.	10.05.22
D	CHANGES AS PER JOB SPEC LETTER	F.J.	17.12.20
C	SHEET 6 ADDED AS PER DISCUSSION WITH SWC	F.J.	29.10.20
B	ISSUE FOR APPROVAL	F.J.	03.06.20
A	LAYOUT FOR REVIEW	F.J.	28.03.20
No.	AMENDMENT DESCRIPTION	BY	DATE

PLAN TO BE READ IN CONJUNCTION WITH CURRENT SYDNEY WATER STANDARDS SYDNEY WATER CORPORATION
PRIOR TO COMMENCEMENT OF EXCAVATION FOR PROPOSED AND EXISTING SERVICES CONTACT:-
DIAL BEFORE YOU DIG Ph. 1190
ELECTRICITY Ph.
GAS Ph.
TELECOMMUNICATIONS Ph.
SYDNEY WATER Ph. 132 092
GIVING AT LEAST 48 HOURS NOTICE.

UTILITIES			
TYPE	DATE	REF.	
STORMWATER: SWD	28.03.20	ENG.PLANS	
SEWER: S	28.03.20	DESIGN	

WORK AS CONSTRUCTED CERTIFICATION			
DEVELOPER	WOORONG PARK PTY LTD		
WATER SERVICE CO-ORDINATOR	QALCHEK PTY LTD		
CONSTRUCTOR	C.J. DOYLE		
COMPLETED	03.05.2022	W.A.C. PREPARED	10.05.2022
DESIGNER	QALCHEK PTY LTD		
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS.			

PIPE SCHEDULE				
SIZE DN	TYPE	CLASS	LENGTH	PIPE JOINING METHOD / NOTES
200	OPVC	PN16	499.1	RRJ
150	OPVC	PN16	7.5	RRJ
100	OPVC	PN16	2862.3	RRJ
DESIGN HEAD, 120 m				
BOUNDARY TRAPS REQUIRED.				

AUSTRALIAN HEIGHT DATUM
SCALES
PLAN 1:500 SECTION { HOR. VERT. }
CROSS SECTIONS NATURAL
LENGTHS, DEPTHS & LEVELS ARE IN METRES

NO AMENDMENTS ARE TO BE MADE TO THIS PLAN WITHOUT REFERENCE TO SYDNEY WATER. THIS PLAN IS NOT NECESSARILY UP TO DATE OR CORRECT AND SYDNEY WATER ACCEPTS NO RESPONSIBILITY.
U.B. DIRECTORY MAP 126 A/16 45th EDITION

Sydney WATER SYDNEY WATER CORPORATION
Case No. 183455PW
WATERMAIN EXTENSION
ABELL RD AND OTHERS
MARSDEN PARK BLACKTOWN



SEE SHEET 3 FOR CONTINUATION

- LEGEND
- EASEMENT FOR DRAINAGE 1.5 WIDE
 - * DRIVEWAY
 - SUBSTATION

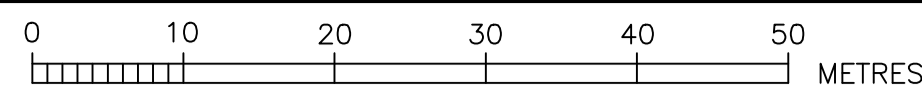
No.	AMENDMENT DESCRIPTION	BY	DATE
1	WORK AS CONSTRUCTED	J.V.	10.05.22
D	CHANGES AS PER JOB SPEC LETTER	F.J.	17.12.20
C	SHEET 6 ADDED AS PER DISCUSSION WITH SWC	F.J.	29.10.20
B	ISSUE FOR APPROVAL	F.J.	03.06.20
A	LAYOUT FOR REVIEW	F.J.	28.03.20

WORK AS CONSTRUCTED CERTIFICATION	
DEVELOPER	WOORONG PARK PTY LTD
W.S.C.	QALCHEK PTY LTD
CONSTRUCTOR	C.J. DOYLE
COMPLETED	03.05.2022
W.A.C. PREPARED	10.05.2022
DESIGNER	QALCHEK PTY LTD

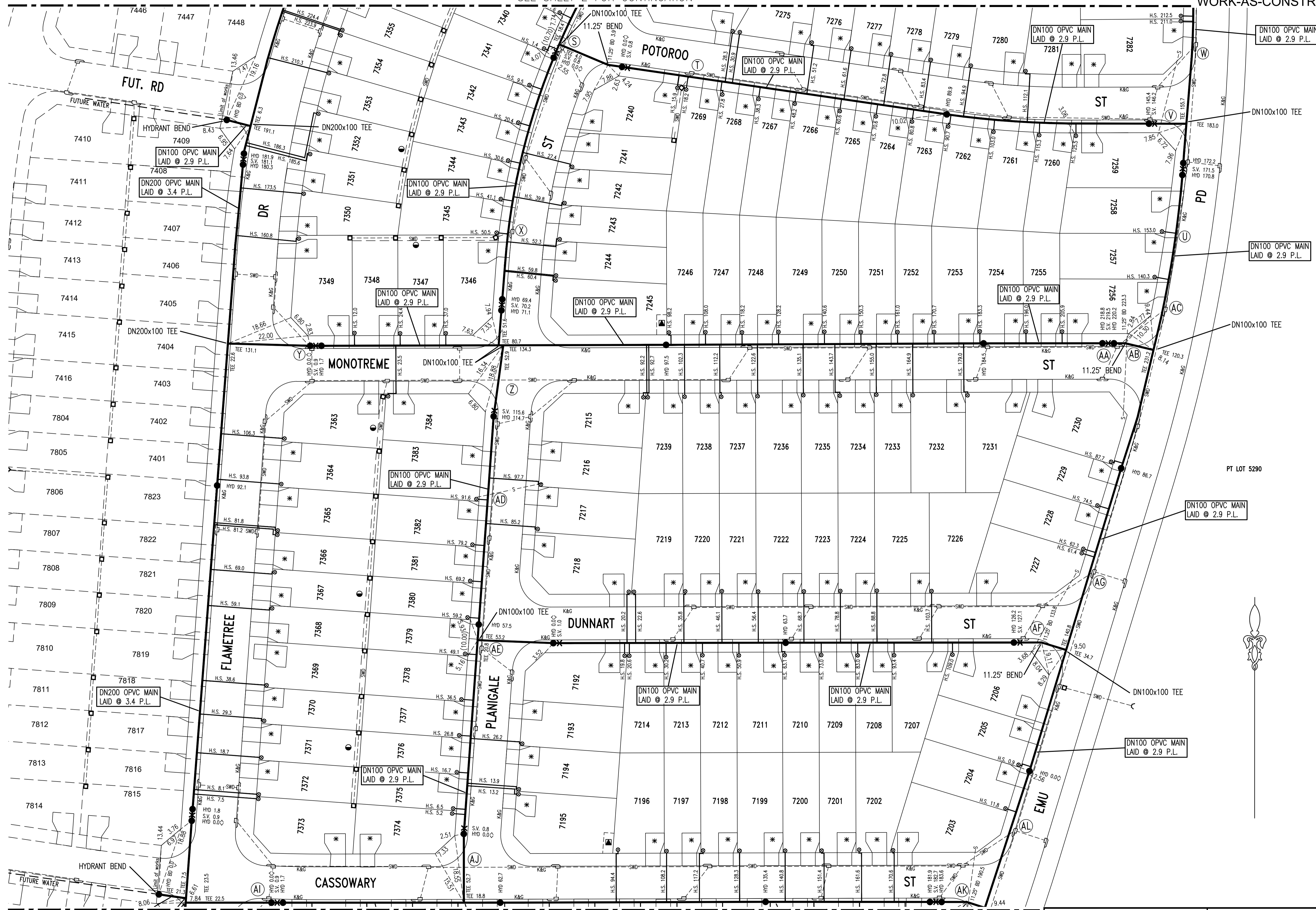
Sydney WATER
SYDNEY WATER CORPORATION

Case No. 183455PW SHT 2 OF 6 SHTS.

FOR DETAILS OF SERVICES SEE SHEET 1



SEE SHEET 2 FOR CONTINUATION

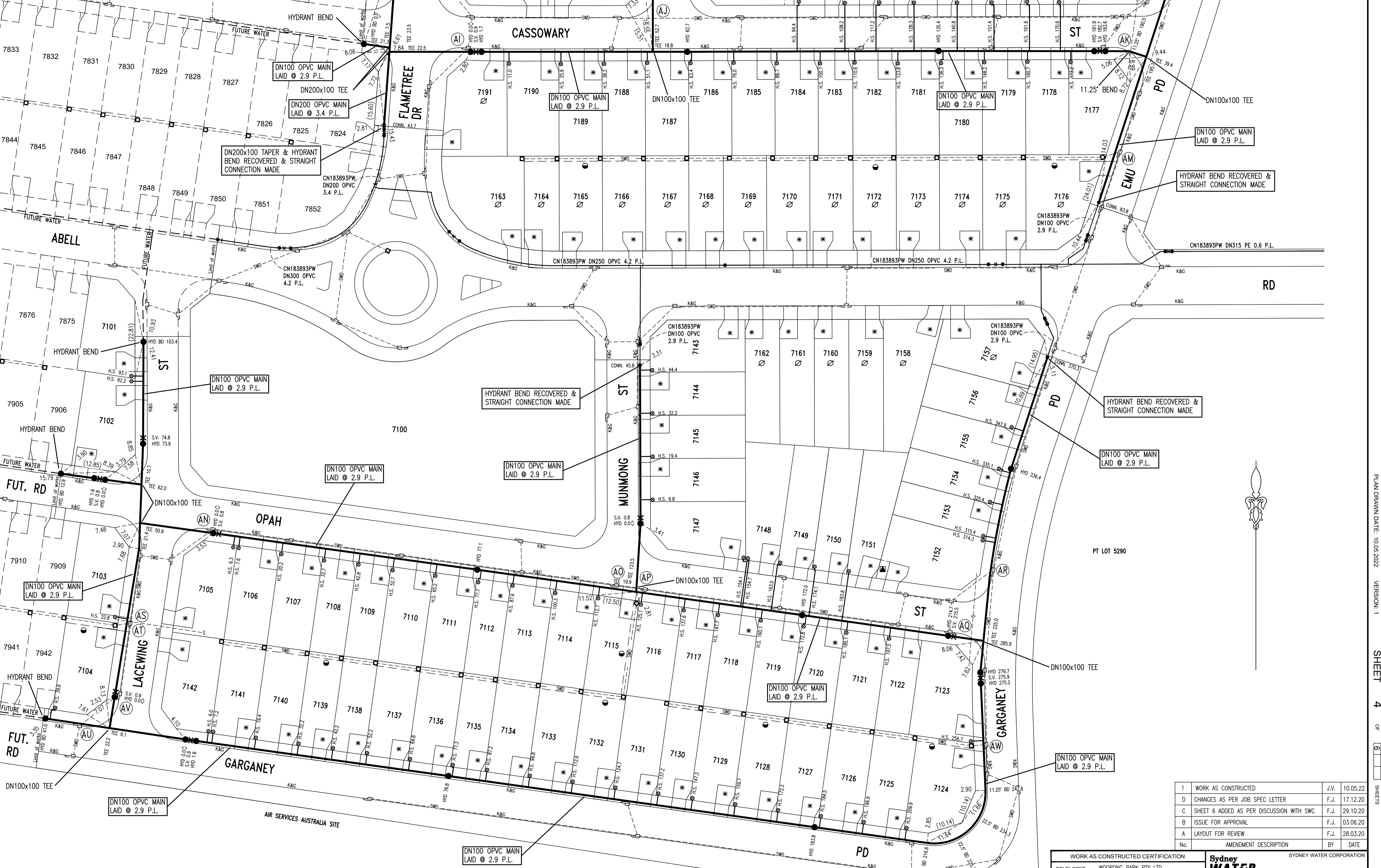


SEE SHEET 4 FOR CONTINUATION

- LEGEND
- EASEMENT FOR DRAINAGE 1.5 WIDE
 - * DRIVEWAY
 - SUBSTATION

No.	AMENDMENT DESCRIPTION	BY	DATE
1	WORK AS CREATED	J.V.	10.05.22
D	CHANGES AS PER JOB SPEC LETTER	F.J.	17.12.20
C	SHEET 6 ADDED AS PER DISCUSSION WITH SWC	F.J.	29.10.20
B	ISSUE FOR APPROVAL	F.J.	03.06.20
A	LAYOUT FOR REVIEW	F.J.	28.03.20

WORK AS CREATED CERTIFICATION		SYDNEY WATER CORPORATION	
DEVELOPER	WOORONG PARK PTY LTD	Sydney WATER	Case No. 183455PW SHT 3 OF 6 SHTS.
W.S.C.	QALCHEK PTY LTD		
CONSTRUCTOR	C.J. DOYLE	DESIGNER QALCHEK PTY LTD	
COMPLETED	03.05.2022	I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CREATED DRAWINGS	
W.A.C. PREPARED	10.05.2022	FOR DETAILS OF SERVICES SEE SHEET 1	



- LEGEND
- EASEMENT FOR DRAINAGE 1.5 WIDE
 - * DRIVEWAY
 - SUBSTATION
 - LOTS SERVICED BY CN183893PW

1	WORK AS CONSTRUCTED	J.V.	10.05.22
D	CHANGES AS PER JOB SPEC LETTER	F.J.	17.12.20
C	SHEET 6 ADDED AS PER DISCUSSION WITH SWC	F.J.	29.10.20
B	ISSUE FOR APPROVAL	F.J.	03.06.20
A	LAYOUT FOR REVIEW	F.J.	28.03.20
No.	AMENDMENT DESCRIPTION	BY	DATE

WORK AS CONSTRUCTED CERTIFICATION		SYDNEY WATER CORPORATION	
DEVELOPER	WOORONG PARK PTY LTD	Sydney WATER	Case No. 183455PW SHT 4 OF 6 SHTS.
W.S.C.	QALCHEK PTY LTD		
CONSTRUCTOR	C.J. DOYLE	DESIGNER QALCHEK PTY LTD	
COMPLETED	03.05.2022	I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS	
W.A.C. PREPARED	10.05.2022	FOR DETAILS OF SERVICES SEE SHEET 1	
DESIGNER QALCHEK PTY LTD		SYDNEY WATER CORPORATION	

PLAN DRAWN DATE: 10.05.2022 VERSION: 1 SHEET 4 OF 6 SHEETS

SERVICES CROSSING TABLE – MAIN WAS LAID OVER UNLESS NOTED OTHERWISE

CROSSING	SERVICE	SERVICE SIZE	PW SIZE	SERVICE COVER (m)	PW COVER (m)	CLEARANCE (m)	COMMENT/DTC
'A'	SWD	DN600	DN100	1.32	0.75	0.47	N/A
'B'	SWD	DN375	DN100	1.08	0.75	0.23	N/A
'C'	SWD	DN600	DN100	1.34	0.75	0.49	N/A
'D'	Sewer	DN225	DN100	5.27	0.75	4.42	N/A
'E'	SWD	DN600	DN100	1.77	0.75	0.92	N/A
'F'	Sewer	DN525	DN100	9.40	0.75	8.45	N/A
'G'	-	-	-	-	-	-	Crossing Deleted
'H'	SWD	DN525	DN100	1.23	0.75	0.38	N/A
'I'	SWD	DN375	DN100	1.08	0.75	0.23	N/A
'J'	SWD	DN375	DN100	1.17	0.75	0.32	N/A
'K'	Sewer	DN525	DN100	7.66	0.75	6.81	N/A
'L'	SWD	DN900	DN100	1.36	0.75	0.51	N/A
'M'	Sewer	DN225	DN100	5.97	0.75	5.12	N/A
'N'	SWD	DN900	DN100	1.58	0.75	0.73	N/A
'O'	Sewer	DN525	DN100	7.21	0.75	6.36	N/A
'P'	Sewer	DN150	DN100	2.50	0.75	1.65	N/A
'Q'	SWD	DN375	DN100	1.07	0.75	0.22	N/A
'R'	Sewer	DN225	DN100	6.859	0.75	6.04	N/A
'S'	SWD	DN375	DN100	1.39	0.75	0.54	N/A
'T'	SWD	DN375	DN100	1.09	0.75	0.24	N/A
'U'	SWD	DN900	DN100	1.86	0.75	1.01	N/A
'V'	Sewer	DN225	DN100	3.65	0.75	2.80	N/A
'W'	SWD	DN600	DN100	2.01	0.75	1.16	N/A
'X'	SWD	DN375	DN100	1.09	0.75	0.24	N/A
'Y'	SWD	DN375	DN100	1.51	0.75	0.66	N/A
'Z'	SWD	DN450	DN100	1.63	0.75	0.78	N/A
'AA'	SWD	DN750	DN100	1.78	0.75	0.93	N/A
'AB'	Sewer	DN225	DN100	3.67	0.75	2.82	N/A
'AC'	SWD	DN750	DN100	1.99	0.75	1.14	N/A
'AD'	Sewer	DN150	DN100	2.50	0.75	1.65	N/A
'AE'	SWD	DN375	DN100	1.23	0.75	0.38	N/A
'AF'	Sewer	DN225	DN100	3.54	0.75	2.69	N/A
'AG'	SWD	DN450	DN100	2.31	0.75	1.46	N/A
'AI'	SWD	DN450	DN100	2.36	0.75	1.51	N/A
'AJ'	SWD	DN525	DN100	2.27	0.75	1.42	N/A
'AK'	Sewer	DN225	DN100	3.78	0.75	2.93	N/A
'AL'	SWD	DN675	DN100	2.34	0.75	1.49	N/A
'AM'	SWD	DN375	DN100	2.08	0.75	1.23	N/A
'AN'	SWD	DN450	DN100	1.79	0.75	0.94	N/A
'AO'	SWD	DN450	DN100	1.85	0.75	1.00	N/A
'AP'	SWD	DN375	DN100	1.10	0.75	0.25	N/A
'AQ'	Sewer	DN150	DN100	3.02	0.75	2.17	N/A
'AR'	SWD	DN675	DN100	2.17	0.75	1.32	N/A
'AS'	Sewer	DN150	DN100	2.77	0.75	1.92	N/A
'AT'	SWD	DN375	DN100	1.10	0.75	0.25	N/A
'AU'	SWD	DN375	DN100	1.42	0.75	0.57	N/A
'AV'	SWD	DN375	DN100	1.10	0.75	0.25	N/A
'AW'	SWD	DN375	DN100	1.10	0.75	0.25	N/A

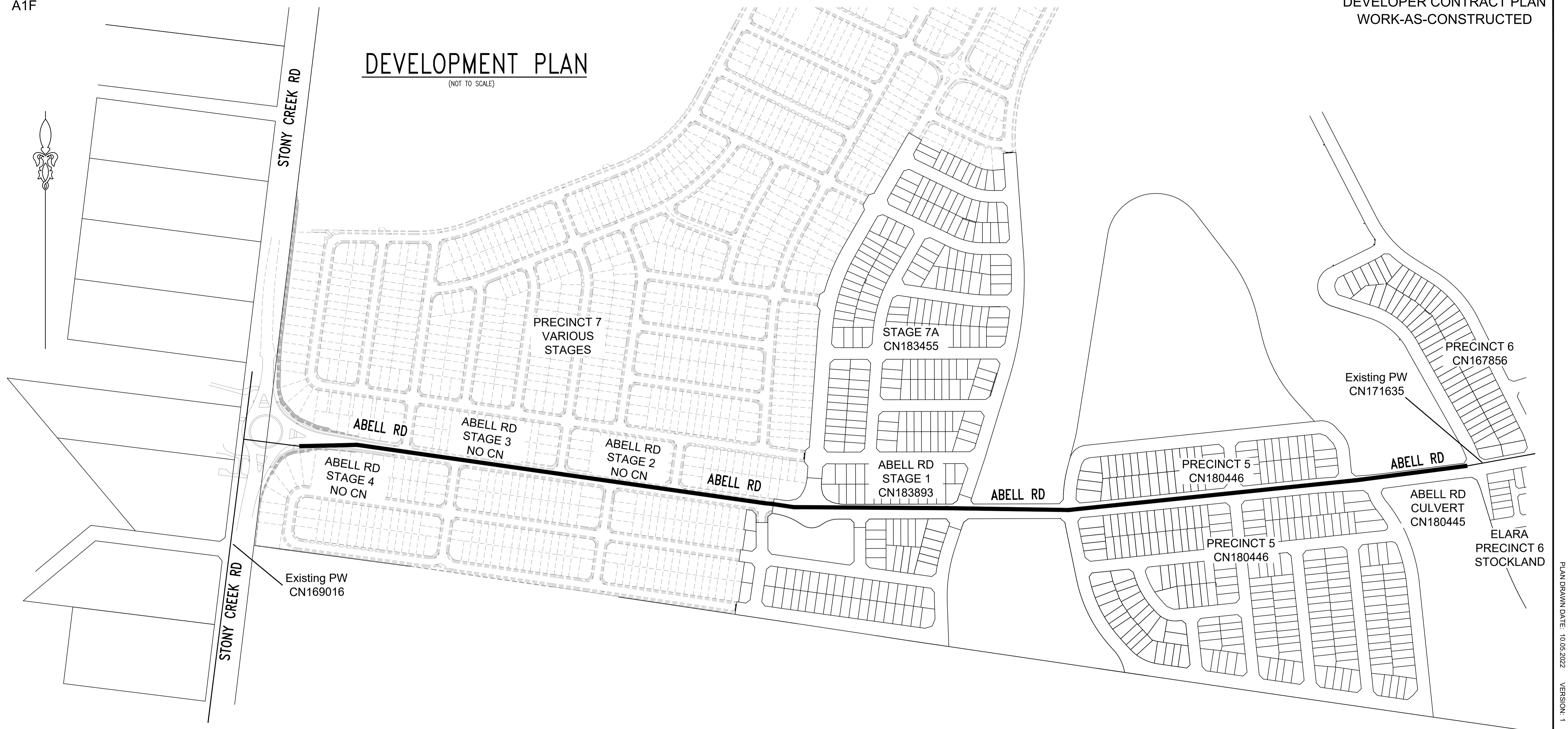
PLAN DRAWN DATE: 10.05.2022 VERSION: 1 SHEET 5 OF 6 SHEETS

1	WORK AS CONSTRUCTED	J.V.	10.05.22
D	CHANGES AS PER JOB SPEC LETTER	F.J.	17.12.20
C	SHEET 6 ADDED AS PER DISCUSSION WITH SWC	F.J.	29.10.20
B	ISSUE FOR APPROVAL	F.J.	03.06.20
A	LAYOUT FOR REVIEW	F.J.	28.03.20
No.	AMENDMENT DESCRIPTION	BY	DATE

WORK AS CONSTRUCTED CERTIFICATION		SYDNEY WATER CORPORATION	
DEVELOPER	WOORONG PARK PTY LTD	Sydney WATER	Case No. 183455PW SHT 5 OF 6 SHTS.
W.S.C.	QALCHEK PTY LTD		
CONSTRUCTOR	C.J. DOYLE	FOR DETAILS OF SERVICES SEE SHEET 1	
COMPLETED	03.05.2022		
W.A.C. PREPARED	10.05.2022	SYDNEY WATER CORPORATION	
DESIGNER	QALCHEK PTY LTD	I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS	

DEVELOPMENT PLAN

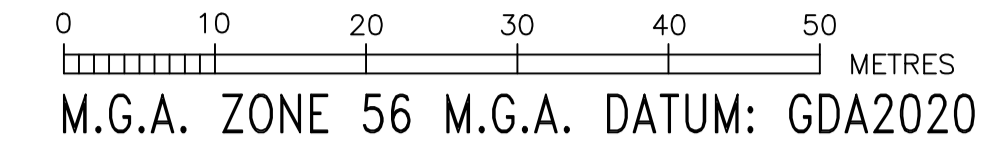
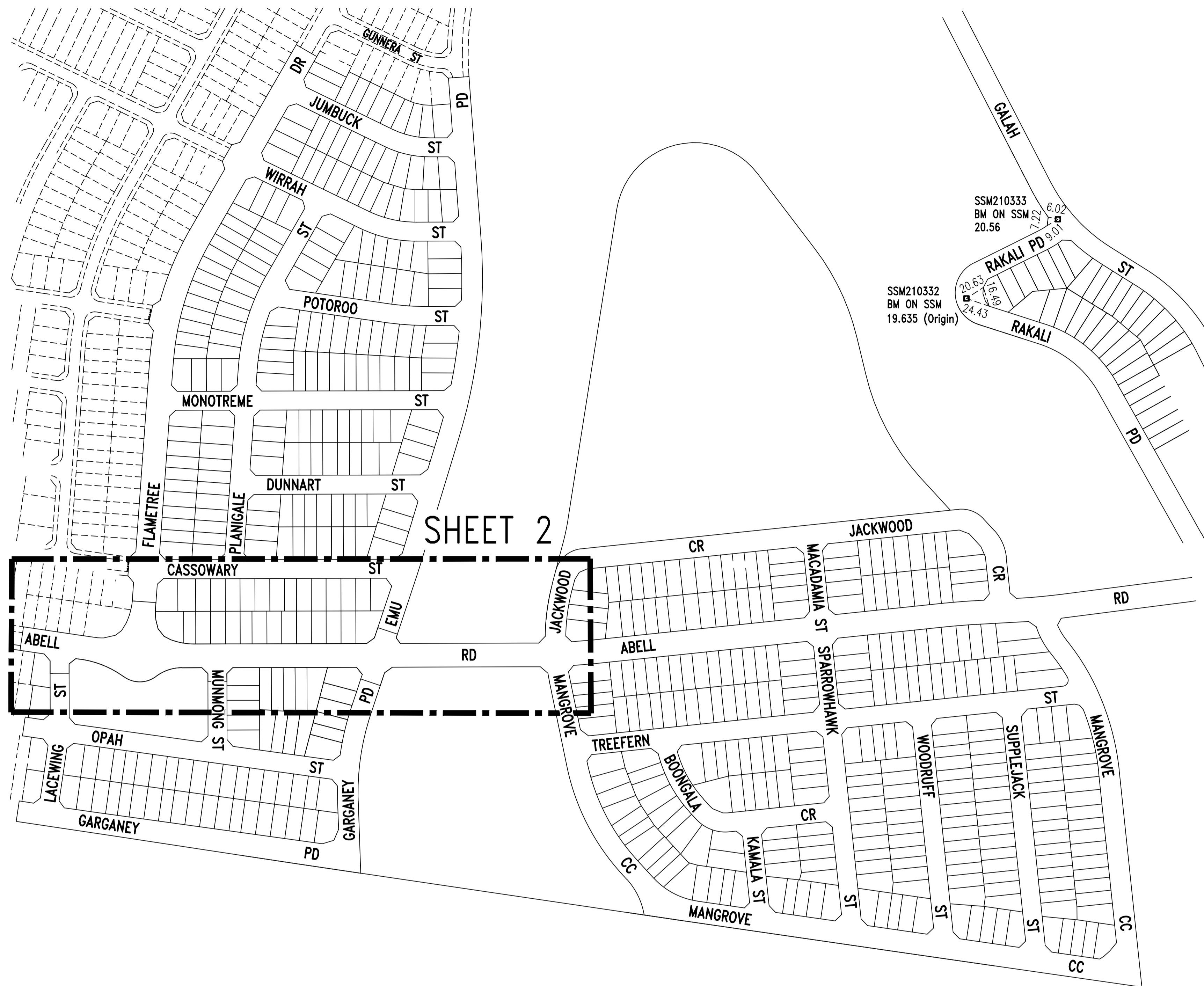
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PRECINCT	CASE NUMBER	DEPENDENCY	COMMENTS/STATUS
Abell Rd Stockland Precinct 6	171635	N/A	DN250 PW main completed, connected
Abell Rd Culvert Crossing	180445	N/A	DN250 PW main connection anticipated December
Precinct 5	167855	180445	DN250 PW main connection anticipated March 2021
Abell Rd Stage 1	183893	180445, 180446	To be designed, construction on bridge to start February 2021
Winten Stage 7A	183455	18393, 180445, 180446	Designed, construction start February 2021, 12 months construction schedule for Stage 7A
Abell Rd Stage 2	171370	18393, 180445, 180446	Design not started, Construction in 2023
Abell Rd Stage 3	168912	18393, 180445, 180446, Stages 2	Design not started, Construction in 2025
Abell Rd Stage 4	172219	18393, 180445, 180446, Stages 2&3	Design not started, Construction in 2027
Stony Creek Rd Upgrade	169016	N/A	Completed, connected

No.	AMENDMENT DESCRIPTION	BY	DATE
1	WORK AS CONSTRUCTED	J.V.	10.05.22
D	CHANGES AS PER JOB SPEC LETTER	F.J.	17.12.20
C	SHEET 6 ADDED AS PER DISCUSSION WITH SWC	F.J.	29.10.20
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WORK AS CONSTRUCTED CERTIFICATION		SYDNEY WATER CORPORATION	
DEVELOPER	WOORONG PARK PTY LTD	Sydney WATER	Case No. 183455PW SHT 6 OF 6 SHTS.
W.S.C.	QALCHEK PTY LTD		
CONSTRUCTOR	C.J. DOYLE	FOR DETAILS OF SERVICES SEE SHEET 1	
COMPLETED	03.05.2022		
W.A.C. PREPARED	10.05.2022		
DESIGNER	QALCHEK PTY LTD	SYDNEY WATER CORPORATION	
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS		FOR DETAILS OF SERVICES SEE SHEET 1	



- DESIGNER AND WATER SERVICING COORDINATOR:
QALCHEK PTY LTD (CERTIFIED No.289)
UNIT 2, LEVEL 1, 15-17 DAVID ROAD, EMU PLAINS 2750
PH. No. (02) 4722 8181

FOR:
WOORONG PARK PTY LTD
c/o J WYNHAM PRINCE
580 HIGH STREET, PENRITH, NSW 2750
PH. 02 4720 3300
- THE WORKS AND MATERIALS ARE IN ACCORDANCE WITH THE WATER SUPPLY CODE OF AUSTRALIA (WSA 03-2011-3.1) INCLUDING THE SYDNEY WATER SUPPLEMENT (2014) AND APPENDICES AS WELL AS THE CURRENT TECHNICAL SPECIFICATION - CIVIL VERSION 9.0 AND TECHNICAL SPECIFICATION - MECHANICAL VERSION 11.0. ALL PE PIPES USE ELECTROFUSION COUPLINGS OR BUTT WELDING FOR JOINTING U.N.O. ALL PE MAINS AND ASSOCIATED FITTINGS WERE CONSTRUCTED AS PER THE PE PIPELINE CODE WSA-01 2004 V3.1.
- MAINS LAID GENERALLY AS SHOWN AT STANDARD DEPTH BELOW KERB INLET EXCEPT WHERE OTHERWISE SHOWN.
- ALL EXCAVATION, SHORING EXCAVATION AND STABILITY OF ADJACENT STRUCTURES/SERVICES/DWELLINGS WAS THE RESPONSIBILITY OF THE CONSTRUCTOR.
- ALL BUILDING LAYOUTS, FINISHED SURFACE LEVELS, STORMWATER INFORMATION, AND GENERAL CIVIL ENGINEERING DETAILS TAKEN FROM:
CIVIL BASEPLAN: CC6917.dwg (PROVIDED BY JWP 01.04.21)
STRUCTURAL BRIDGE DETAILS: 16920- BS1-BS26 (002).pdf (PROVIDED BY JWP 23.02.21)
SWD INFORMATION SUBDIVISION: P7 Abell Rd Bridge - Approved Civil Plans.pdf (PROVIDED BY JWP 01.04.2021)
SURFACE INFORMATION: Newpark 3D Triangles.dwg (PROVIDED BY JWP 01.04.2021)
- CONDITIONS FOR EMBEDMENT, BACKFILL AND TESTING REQUIREMENTS ARE AS FOLLOWS:
- ALL POTABLE WATER ROAD CARRIAGEWAY CROSSINGS FOR EXISTING AND NEW ROADS BEDDED AND BACKFILLED WITH SAND/CEMENT. SAND/CEMENT RATIO 14:1 AND WAS PLACED DRY.
- FOR ANY WATERMAIN LOCATED WITHIN 1.0m OF A ROAD SHOULDER OR KERB AND GUTTER IN THE VERGE OR FOOTPATH THE EMBEDMENT AND BACKFILL WAS COMPACTED TO A DENSITY INDEX OF 95%. ALL TESTS (EMBEDMENT AND BACKFILL) WERE DONE AS FOR TRAFFICABLE AREA.

THE MINIMUM NUMBER OF FIELD COMPACTION TESTS CONDUCTED TO SATISFY THE CONDITIONS ABOVE AS WELL AS THE WATER SUPPLY CODE OF AUSTRALIA ARE:
PIPE EMBEDMENT ZONE: 0 TESTS CONDUCTED (LETTER PROVIDED)
TRENCH FILL ZONE (TRAFFICABLE): 20 TESTS CONDUCTED (LETTER PROVIDED)
TRENCH FILL ZONE PROPERTY SERVICES: 0 TESTS CONDUCTED (LETTER PROVIDED)
COMPACTION TESTS - TOTAL: 20 TESTS CONDUCTED
- ALL PROPERTY (MAIN TO METER) SERVICES WERE CONSTRUCTED TO SYDNEY WATER'S INSTALLATION REQUIREMENTS BY A LICENSED PLUMBER AND ACCREDITED DRILLER. THE WORKS WERE INSTALLED IN ACCORDANCE WITH THE CURRENT SYDNEY WATER PROPERTY SERVICE (MAIN TO METER) INSTALLATIONS TECHNICAL REQUIREMENTS, NSW CODE OF PRACTICE FOR PLUMBING AND DRAINAGE, AND AS/NZ 3500.
- ALL REDUNDANT SURFACE FITTINGS AND INDICATOR PLATES WERE RECOVERED.
- THE WORKS WERE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING SYDNEY WATER'S DEEMED TO COMPLY DRAWINGS:
- FOR HORIZONTAL BENDS TYPE 2 DTC-1111 (ISSUE B 29.02.12)
- FOR TAPERS DTC-1112 (ISSUE B 29.02.12)
- FOR TEES DTC-1113 (ISSUE B 29.02.12)
- FOR VERTICAL BENDS & HYDRANT BENDS DTC-1114 (ISSUE A 31.01.12)
- FOR STOP VALVES ON DN250 AND LARGER DTC-1115 (ISSUE B 29.02.12)
- FOR FLANGED CONNECTIONS DTC-1145 AND DTC-1146 (ISSUE A 01.03.12 FOR BOTH)
- ALL ROAD CROSSINGS AND ALL MAINS LOCATED WITHIN ROAD CARRIAGEWAYS WERE BEDDED AND BACKFILLED WITH SAND/CEMENT AT A RATIO OF 14:1. MINIMUM COVER OF SAND/CEMENT BACKFILL ON POTABLE WATERMANS IS 300mm. ALL TRENCHES OTHER THAN IN ROAD CARRIAGEWAY WERE BACKFILLED AS FOR A TRAFFICABLE AREA. REFER TO SECTION 17 OF WSA 03-2011-3.1 AS WELL AS THE RELEVANT SECTION OF THE TECHNICAL SPECIFICATION - CIVIL VERSION 9.0.

SHEET 2

LOCALITY PLAN & BENCHMARK DIAGRAM

(NOT TO SCALE)

1	WORK AS CONSTRUCTED	J.V.	03.06.22
D	SWC COMMENTS ADDRESSED, 50m OF DN300 MAIN ADDED AS WELL AS 27m OF DN100 MAIN ADDED	F.J.	20.07.21
C	AMENDED DESIGN FOR APPROVAL AFTER OBTAINING GEOTECHNICAL ADVICE DUE TO GROUND CONDITIONS	F.J.	06.05.21
B	AMENDED DESIGN FOR APPROVAL	F.J.	13.04.21
A	DRAFT DESIGN FOR REVIEW AND TENDER	F.J.	06.02.21
No.	AMENDMENT DESCRIPTION	BY	DATE

PLAN TO BE READ IN CONJUNCTION WITH CURRENT SYDNEY WATER STANDARDS SYDNEY WATER CORPORATION

PRIOR TO COMMENCEMENT OF EXCAVATION FOR PROPOSED AND EXISTING SERVICES CONTACT:

DIAL BEFORE YOU DIG Ph. 1100
ELECTRICITY Ph.
GAS Ph.
TELECOMMUNICATIONS Ph.
SYDNEY WATER Ph. 132 092
GIVING AT LEAST 48 HOURS NOTICE.

UTILITIES			
TYPE	DATE	REF.	TYPE
STORMWATER: SWD	03.02.21	ENG. PLANS	
SEWER: S	28.03.20	DESIGN	
TELSTRA: TEL	01.04.21	DESIGN	
GAS: GAS	01.04.21	DESIGN	
ENDEAVOUR: E	01.04.21	DESIGN	

WORK AS CONSTRUCTED CERTIFICATION			
DEVELOPER	DESIGNER	CONSTRUCTOR	COMPLETED
WOORONG PARK PTY LTD	QALCHEK PTY LTD	CJ DOYLE	17.12.2021
WATER SERVICE CO-ORDINATOR	DESIGNED	PREPARED	DATE
QALCHEK PTY LTD	QALCHEK PTY LTD	W.A.C. PREPARED	03.06.2022

I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS.

PIPE SCHEDULE			
SIZE DN	TYPE	CLASS	LENGTH
300	OPVC	PN16	96.6
300	DICL	PN35	5
315	PE100	PN16	130.9
250	DICL	PN35	10
250	OPVC	PN18	217.5
200	OPVC	PN18	14.6
100	OPVC	PN18	113.2

DESIGN HEAD, 120 m

BOUNDARY TRAPS REQUIRED.

AUSTRALIAN HEIGHT DATUM

SCALES

PLAN 1:500 SECTION { HOR. VERT. }

CROSS SECTIONS NATURAL

LENGTHS, DEPTHS & LEVELS ARE IN METRES.

NO AMENDMENTS ARE TO BE MADE TO THIS PLAN WITHOUT REFERENCE TO SYDNEY WATER. THIS PLAN IS NOT NECESSARILY UP TO DATE OR CORRECT AND SYDNEY WATER ACCEPTS NO RESPONSIBILITY.

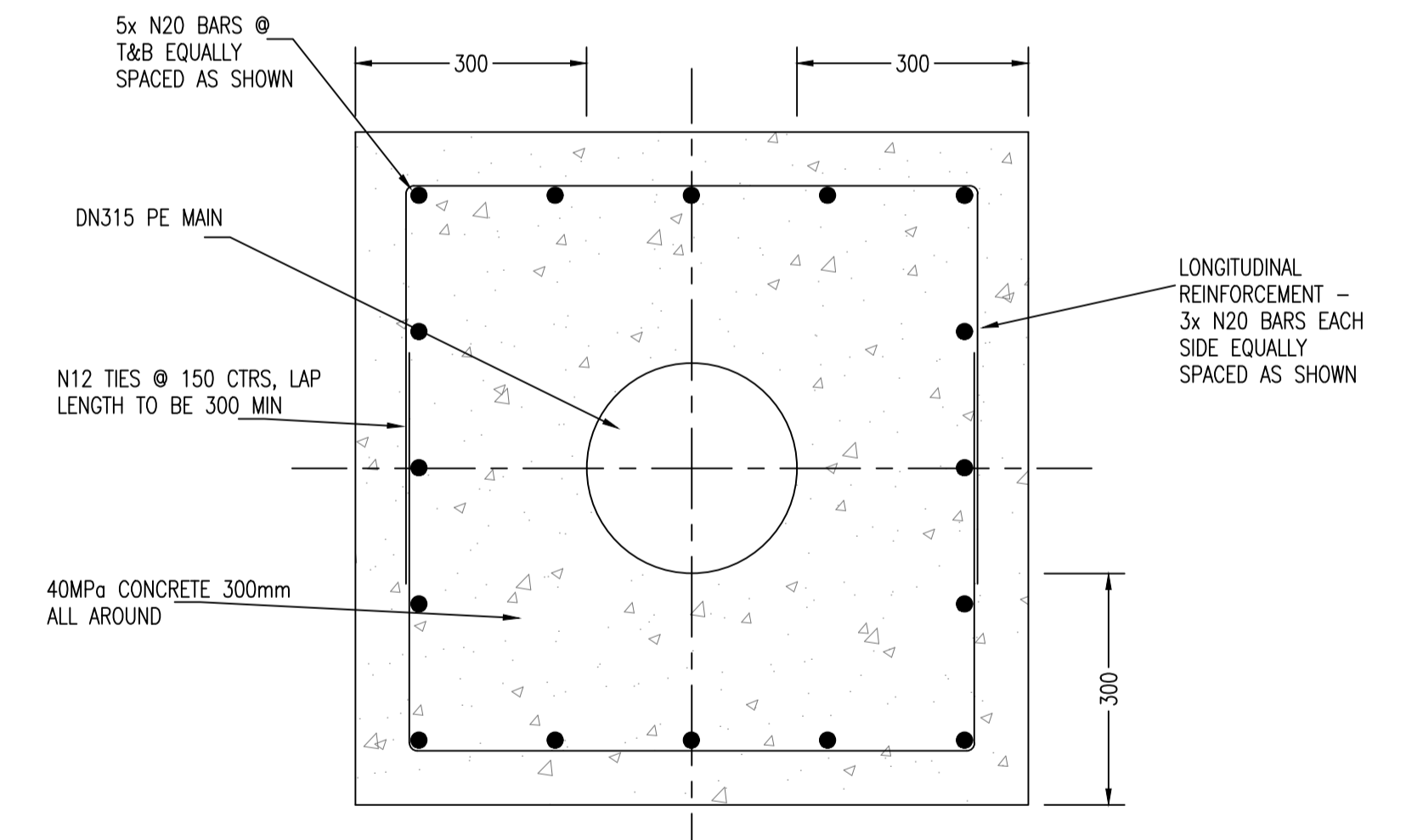
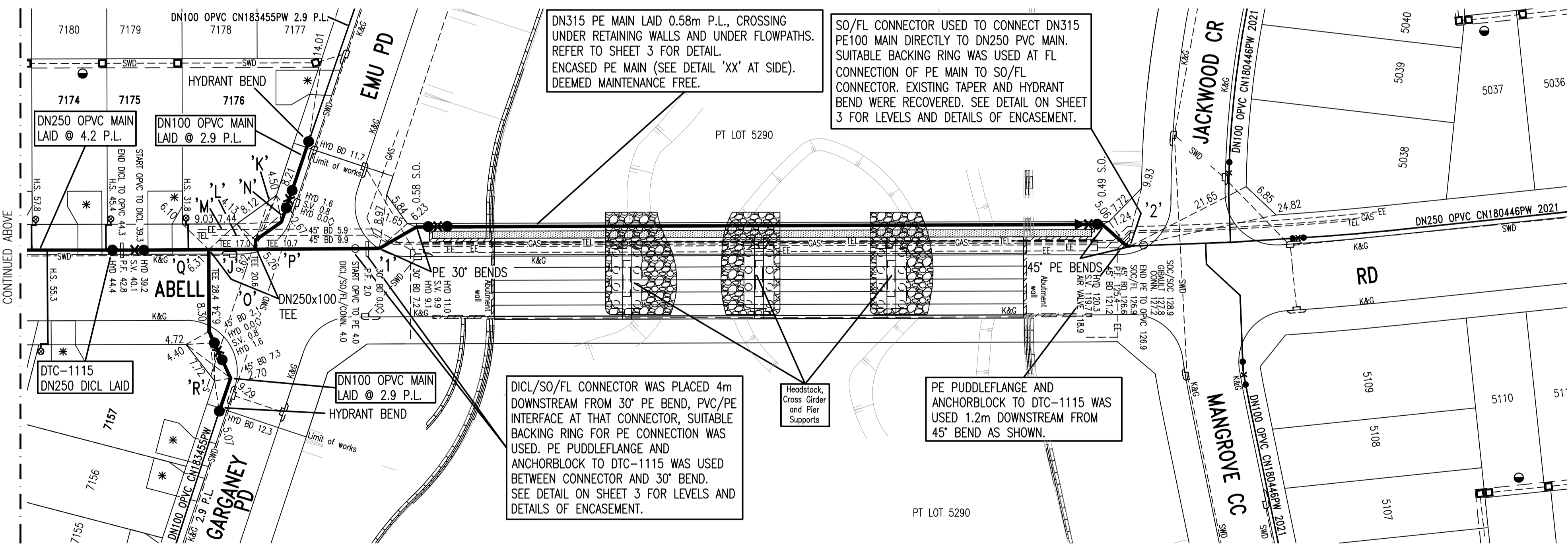
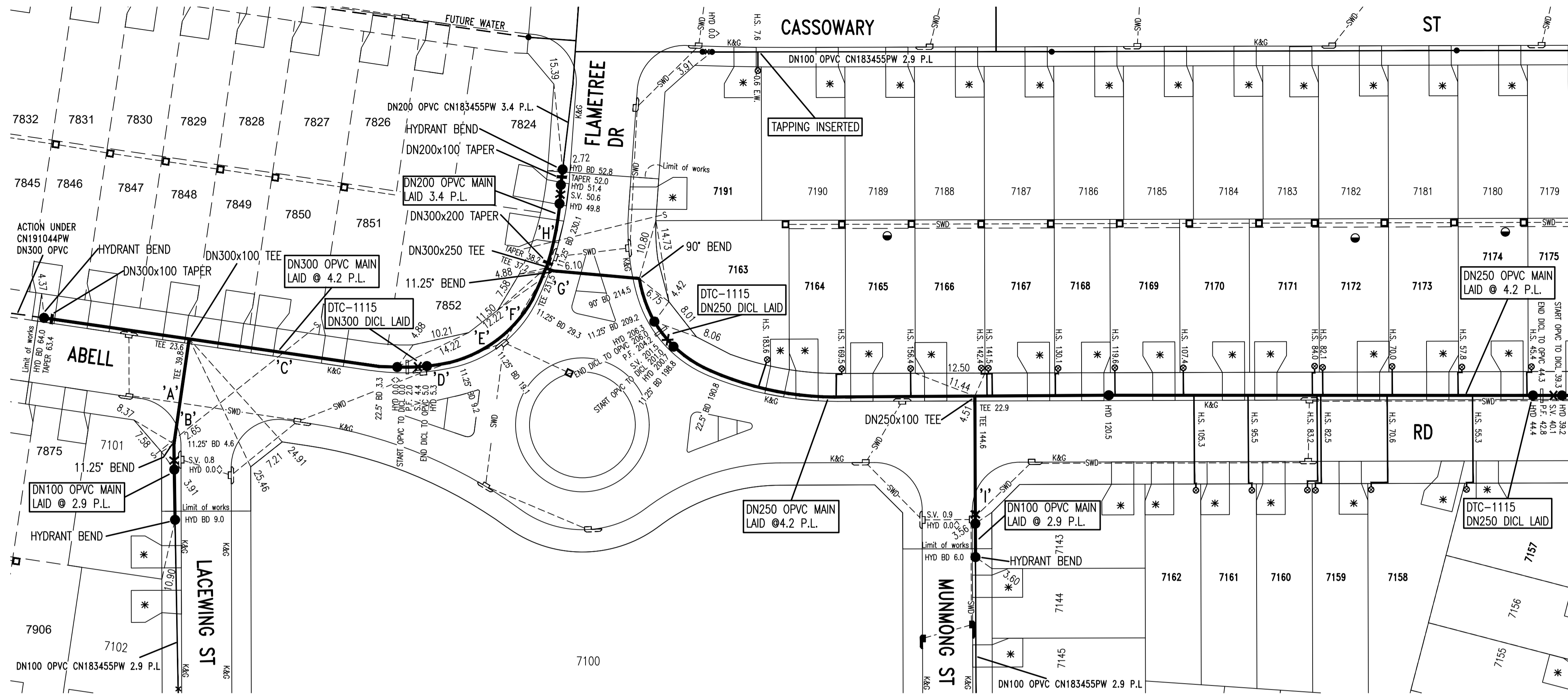
U.B. DIRECTORY MAP 126/A16 45th EDITION

SHEET 1 OF 4 File No. N/A

Sydney WATER SYDNEY WATER CORPORATION

Case No. 183893PW

WATERMAIN EXTENSION
ABELL RD
MARDEN PARK BLACKTOWN



DETAIL 'XX' - REINFORCED ENCASEMENT
NOT TO SCALE

ENCASEMENT NOTES

1. ALL DIMENSIONS ARE IN MILLIMETERS UNO.
2. CONCRETE IS CLASS N40 (40MPa) TO PS-357_SW.
3. ALL REINFORCEMENT IS TO AS4671.
4. MINIMUM CLEAR COVER TO REINFORCEMENT IS 70mm.

SERVICES CROSSING TABLE SHEET 2 - MAIN LAID OVER UNLESS NOTED OTHERWISE

CROSSING	SERVICE	SERVICE SIZE	PW SIZE	SERVICE COVER (m)	PW COVER (m)	CLEARANCE (m)	COMMENT/DTC
'A'	SWD	DN375	DN100	1.38	0.75	0.53	N/A
'B'	Sewer	DN150	DN100	2.89	0.75	1.84	N/A
'C'	Sewer	DN150	DN300	2.99	0.75	1.94	N/A
'D'	SWD	DN450	DN300	2.11	0.75	1.06	N/A
'E'	SWD	DN450	DN300	2.07	0.75	1.02	N/A
'F'	SWD	DN450	DN300	2.05	0.75	1.00	N/A
'G'	SWD	DN450	DN300	1.92	0.75	0.87	N/A
'H'	Sewer	DN150	DN200	3.00	0.75	2.05	N/A
'I'	SWD	DN450	DN100	1.45	0.75	0.60	N/A

SERVICES CROSSING TABLE SHEET 2 - MAIN LAID OVER UNLESS NOTED OTHERWISE

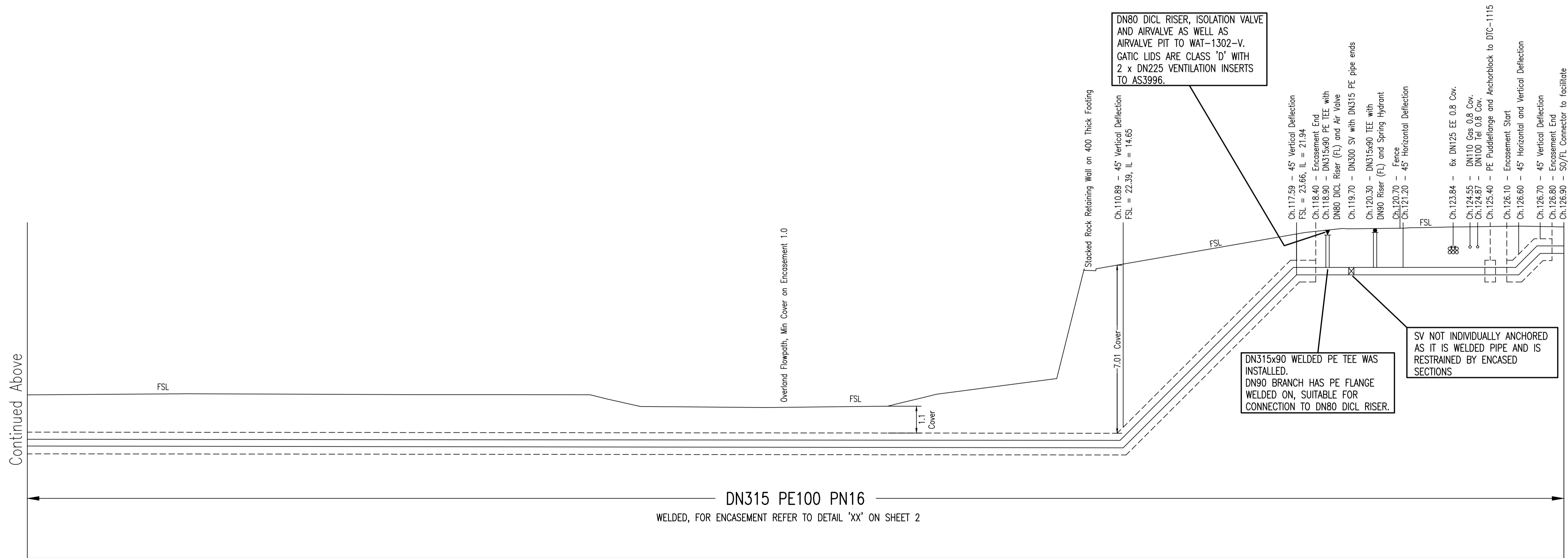
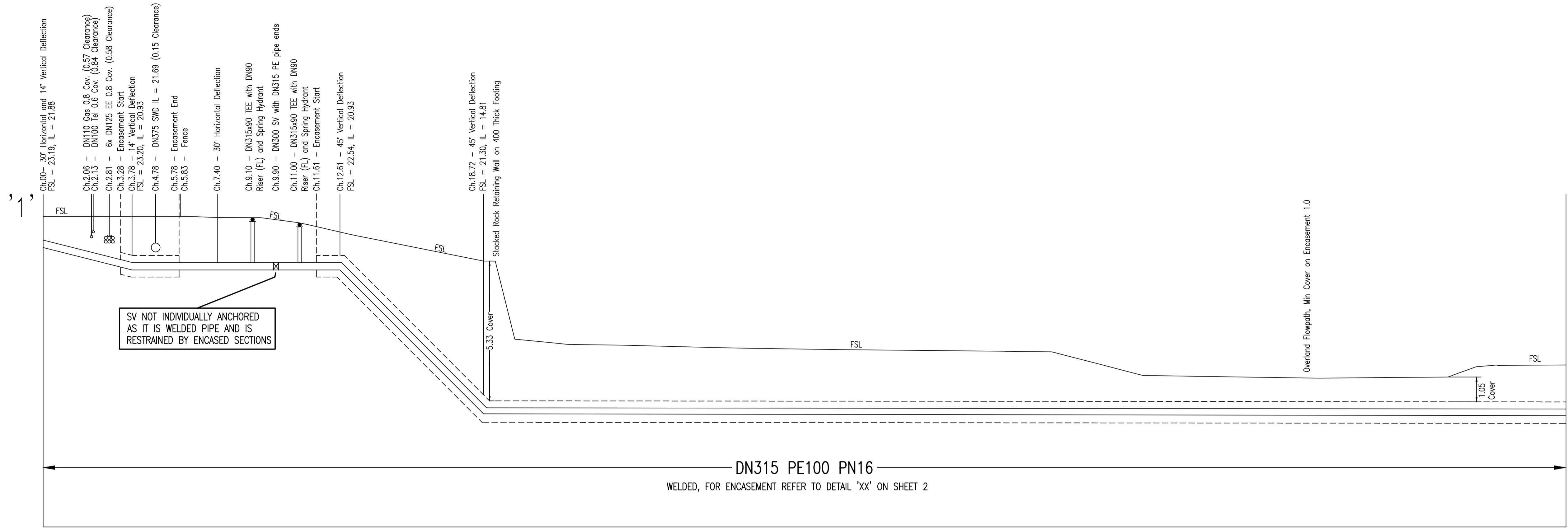
CROSSING	SERVICE	SERVICE SIZE	PW SIZE	SERVICE COVER (m)	PW COVER (m)	CLEARANCE (m)	COMMENT/DTC
'J'	SWD	DN525	DN250	3.27	0.75	2.27	N/A
'K'	Sewer	DN225	DN100	4.26	0.75	3.41	N/A
'L'	Tel	DN100	DN100	0.80	1.30	0.40	Ease under Services
'M'	EE	DN125x6	DN100	0.80	1.30	0.25	Ease under Services
'N'	SWD	DN525	DN100	3.05	0.75	2.20	N/A
'O'	Sewer	DN225	DN250	4.25	0.75	3.25	N/A
'P'	SWD	DN750	DN250	3.04	0.75	2.04	N/A
'Q'	SWD	DN525	DN100	3.21	0.75	2.36	N/A
'R'	Sewer	DN225	DN100	4.18	0.75	3.33	N/A

- LEGEND
- EASEMENT FOR DRAINAGE 1.5 WIDE
 - * DRIVEWAY
 - P.F. PUDDLE FLANGE

No.	AMENDMENT DESCRIPTION	BY	DATE
1	WORK AS CREATED	J.V.	03.06.22
D	SWC COMMENTS ADDRESSED, 50m of DN300 MAIN ADDED AS WELL AS 27m of DN100 MAIN ADDED	F.J.	20.07.21
C	AMENDED DESIGN FOR APPROVAL AFTER OBTAINING GEOTECHNICAL ADVICE DUE TO GROUND CONDITIONS	F.J.	06.05.21
B	AMENDED DESIGN FOR APPROVAL	F.J.	13.04.21
A	DRAFT DESIGN FOR REVIEW AND TENDER	F.J.	06.02.21

WORK AS CREATED CERTIFICATION		SYDNEY WATER CORPORATION	
DEVELOPER	WOORONG PARK PTY LTD	Sydney WATER	
W.S.C.	QALCHEK PTY LTD		
CONSTRUCTOR	CJ DOYLE	Case No. 183893PW	SHT 2 OF 4 SHTS.
COMPLETED	17.12.2021		
W.A.C. PREPARED	03.06.2022		
DESIGNER	QALCHEK PTY LTD	SYDNEY WATER CORPORATION	
I CERTIFY THAT THE WORK HAS BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CREATED DRAWINGS		FOR DETAILS OF SERVICES SEE SHEET 1	

A1F



SCHMATIC SECTION '1' - '2' OF DN315 PE
MAIN FLOWPATH CROSSING ADJACENT TO FUTURE
BRIDGE

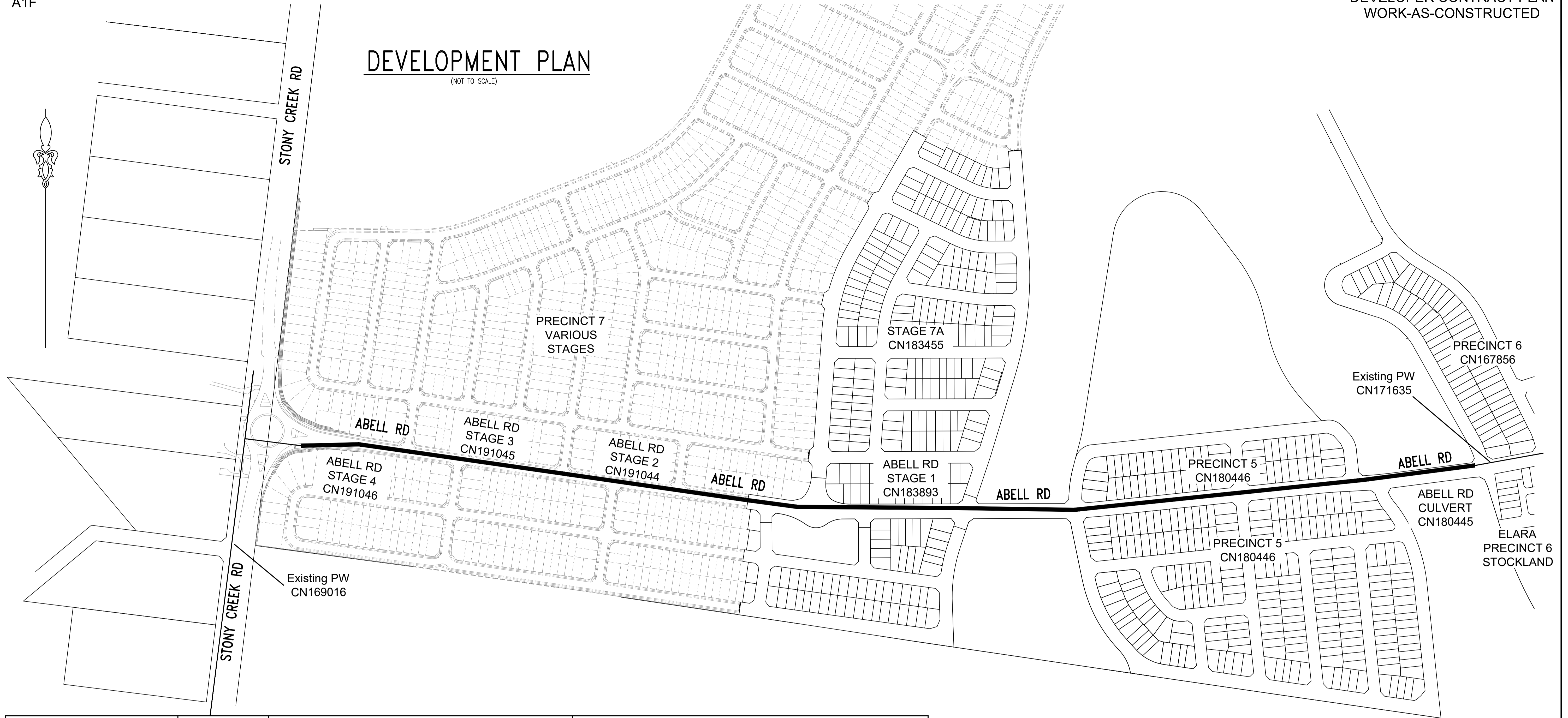
NOT TO SCALE

No.	AMENDMENT DESCRIPTION	BY	DATE
1	WORK AS CONSTRUCTED	J.V.	03.06.22
D	SWC COMMENTS ADDRESSED, 50m OF DN300 MAIN ADDED AS WELL AS 27m OF DN100 MAIN ADDED	F.J.	20.07.21
C	AMENDED DESIGN FOR APPROVAL AFTER OBTAINING GEOTECHNICAL ADVICE DUE TO GROUND CONDITIONS	F.J.	06.05.21
B	AMENDED DESIGN FOR APPROVAL	F.J.	13.04.21
A	DRAFT DESIGN FOR REVIEW AND TENDER	F.J.	06.02.21

WORK AS CONSTRUCTED CERTIFICATION		SYDNEY WATER CORPORATION	
DEVELOPER	WOORONG PARK PTY LTD	Sydney WATER	
W.S.C.	QALCHEK PTY LTD		
CONSTRUCTOR	CJ DOYLE	Case No. 183893PW	SHT 3 OF 4 SHTS.
COMPLETED	17.12.2021	SYDNEY WATER CORPORATION FOR DETAILS OF SERVICES SEE SHEET 1	
W.A.C. PREPARED	03.06.2022		
DESIGNER	QALCHEK PTY LTD	I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS	

DEVELOPMENT PLAN

(NOT TO SCALE)



PRECINCT	CASE NUMBER	DEPENDENCY	COMMENTS/STATUS
Abell Rd Stockland Precinct 6	171635	N/A	DN250 PW main completed, connected
Abell Rd Culvert Crossing	180445	N/A	Connection was 05.03.2021, PCP to be submitted
Precinct 5	180446	180445	Disinfection scheduled 27.04.2021, Connection in May 2021
Abell Rd Stage 1	183893	180445, 180446	Design will be submitted to SWC end of April 2021, Construction July/August 2021
Winten Stage 7A	183455	18393, 180445, 180446	Designed, construction start February 2021, 8 months construction schedule for Stage 7A
Abell Rd Stage 2	191044	18393, 180445, 180446	Design not started, Civil Construction Commencing August 2021, concluding May 2022
Abell Rd Stage 3	191045	18393, 180445, 180446, 191044	Design not started, Civil Construction Commencing October 2021, concluding June 2022
Abell Rd Stage 4	191046	18393, 180445, 180446, 191044, 191045	Design not started, Civil Construction Commencing December 2021, concluding September 2024
Stony Creek Rd Upgrade	169016	N/A	Completed, connected

No.	AMENDMENT DESCRIPTION	BY	DATE
1	WORK AS CONSTRUCTED	J.V.	03.06.22
D	SWC COMMENTS ADDRESSED, 50m OF DN300 MAIN ADDED AS WELL AS 27m OF DN100 MAIN ADDED	F.J.	20.07.21
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WORK AS CONSTRUCTED CERTIFICATION		Sydney WATER SYDNEY WATER CORPORATION	
DEVELOPER	WOORONG PARK PTY LTD	Case No.	183893PW
W.S.C.	QALCHEK PTY LTD	SHT	4 OF 4 SHTS.
CONSTRUCTOR	CJ DOYLE		
COMPLETED	17.12.2021		
W.A.C. PREPARED	03.06.2022		
DESIGNER	QALCHEK PTY LTD	SYDNEY WATER CORPORATION	
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS		FOR DETAILS OF SERVICES SEE SHEET 1	