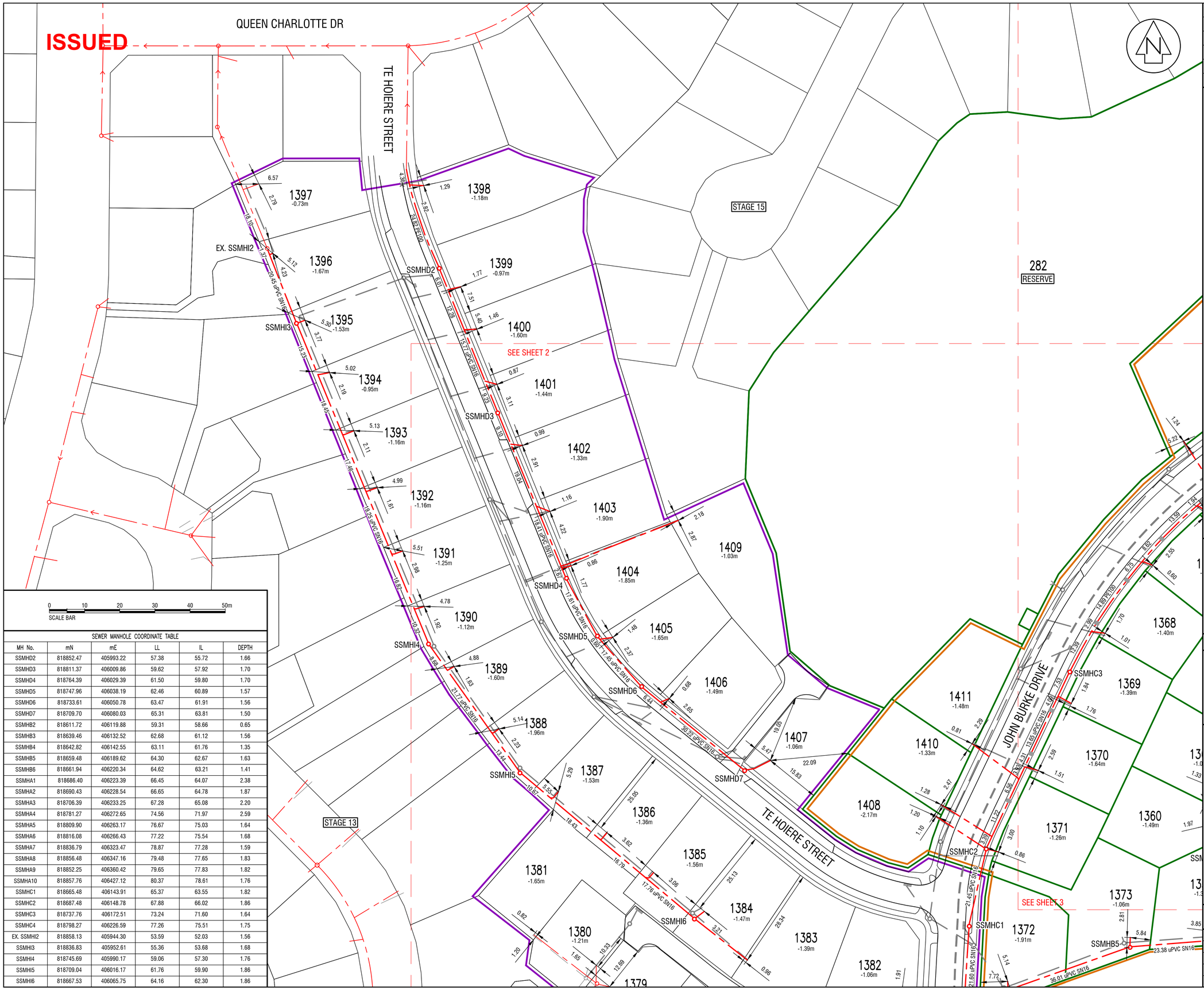

SEWER MANHOLE COORDINATE TABLE

MH No.	mN	mE	LL	IL	DEPTH
SSMHD2	818852.47	405993.22	57.38	55.72	1.66
SSMHD3	818811.37	406009.86	59.62	57.92	1.70
SSMHD4	818764.39	406029.39	61.50	59.80	1.70
SSMHD5	818747.96	406038.19	62.46	60.89	1.57
SSMHD6	818733.61	406050.78	63.47	61.91	1.56
SSMHD7	818709.70	406080.03	65.31	63.81	1.50
SSMHB2	818611.72	406119.88	59.31	58.66	0.65
SSMHB3	818639.46	406132.52	62.68	61.12	1.56
SSMHB4	818642.82	406142.55	63.11	61.76	1.35
SSMHB5	818659.48	406189.62	64.30	62.67	1.63
SSMHB6	818661.94	406220.34	64.62	63.21	1.41
SSMHA1	818686.40	406223.39	66.45	64.07	2.38
SSMHA2	818690.43	406228.54	66.65	64.78	1.87
SSMHA3	818706.39	406233.25	67.28	65.08	2.20
SSMHA4	818781.27	406272.65	74.56	71.97	2.59
SSMHA5	818809.90	406263.17	76.67	75.03	1.64
SSMHA6	818816.08	406266.43	77.22	75.54	1.68
SSMHA7	818836.79	406323.47	78.87	77.28	1.59
SSMHA8	818856.48	406347.16	79.48	77.65	1.83
SSMHA9	818852.25	406360.42	79.65	77.83	1.82
SSMHA10	818857.76	406427.12	80.37	78.61	1.76
SSMHC1	818665.48	406143.91	65.37	63.55	1.82
SSMHC2	818687.48	406148.78	67.88	66.02	1.86
SSMHC3	818737.76	406172.51	73.24	71.60	1.64
SSMHC4	818798.27	406226.59	77.26	75.51	1.75
EX. SSMHI2	818858.13	405944.30	53.59	52.03	1.56
SSMHI3	818836.83	405952.61	55.36	53.68	1.68
SSMHI4	818745.69	405990.17	59.06	57.30	1.76
SSMHI5	818709.04	406016.17	61.76	59.90	1.86
SSMHI6	818667.53	406065.75	64.16	62.30	1.86

	REVISION DETAILS	NAME	DATE
A	18B SHEET ADDED	JCM	12/21

NOTES:

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4. SURVEYED BY: J MACPHAIL, FEB 2020 - DEC 2021
5. ALL DIMENSIONS ARE SHOWN IN METRES.
6. COUNCIL REFERENCE RC8072.
7. ALL WORKS COMPLETED BY MCLATCHIE AND SHARP LTD, JEFF MCLATCHIE REGISTRATION NUMBER 12333, FEB 2020 - DEC 2021.
8. ALL ELECTRONIC CAD DATA MUST BE READ IN CONJUNCTION WITH THESE NOTES.
9. ALL MANHOLES ARE Ø1050mm WITH MAESTRO HEAVY DUTY CLASS D HINGED LID UNLESS SPECIFIED OTHERWISE.
10. ALL NEW SEWER GRAVITY MAINS ARE 150mmØ uPVC SN16 UNLESS SPECIFIED OTHERWISE.
11. ALL NEW SEWER & STORMWATER LATERALS ARE 100mmØ uPVC SN16.
12. ALL NEW SUMP LEADS ARE 300mmØ BOSS PIPE UNLESS NOTED. ALL SUMPS ARE SINGLE SUMPS UNLESS SPECIFIED OTHERWISE.
13. ALL STORMWATER MAINS Ø300-Ø375 ARE CIVIL BOSS PIPE UNLESS SPECIFIED OTHERWISE.
14. ALL STORMWATER MAINS >Ø375 ARE RCRRJ CLASS 2 UNLESS SPECIFIED OTHERWISE.
15. ALL SUMP TOPS ARE FITTED WITH P&I "PAMELLA - GENERATION 3" GRILL LIDS.
16. ALL STORMWATER KERB OUTLETS ARE GALVANISED IRON WITH GALVANISED KERB ADAPTOR.
17. THE DEPTH TO INVERT OF PRIVATE CONNECTIONS IS BASED ON INFORMATION PROVIDED BY THE CONTRACTOR AND TAKEN FROM GROUND LEVEL AT TIME OF COMPLETION OF THE SUBDIVISION. CONNECTIONS TO BE LOCATED ON SITE PRIOR TO DETAILED DESIGN.

LEGEND

- STAGE 18 BOUNDARIES
- EXISTING BOUNDARIES
- STAGE 18A BOUNDARIES (COMPLETED JULY 2021)
- STAGE 18B BOUNDARIES (COMPLETED DEC 2021)
- NEW SEWER LINE
- EXISTING SEWER LINE
- NEW SEWER MANHOLE
- NEW SEWER WATERSTOP
- NEW STORMWATER LINE
- EXISTING STORMWATER LINE
- NEW STORMWATER MANHOLE
- NEW STORMWATER SUMP / DOUBLE SUMP
- EXISTING TRUNK WATER MAIN

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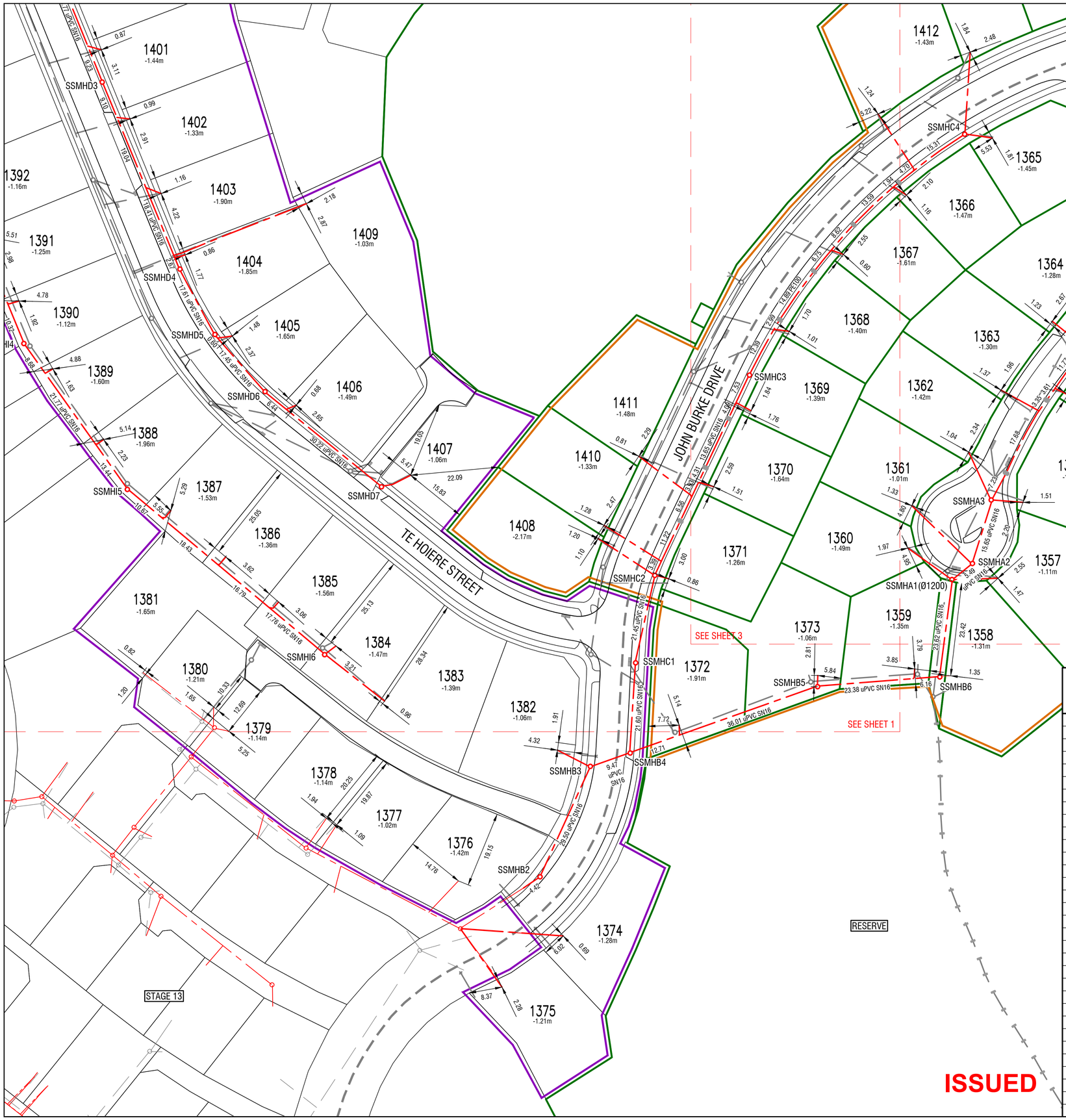
CIVIL WORKS
STAGES 18A & 18B

AS BUILT PLAN - SEWER

SCALE A1 - 1:500
REDUCED SCALE A3 - 1:1000

	NAME	DATE
FIELDWORK	JCM	12/21
DESIGNED	RFH	04/20
DRAWN	JCM	12/21
CHECKED	RFH	12/21

DRAWING NUMBER 27516ASBSS
SHEET 1 OF 3 SHEETS
REVISION A



REVISION DETAILS		NAME	DATE
A	18B SHEET ADDED	JCM	12/21

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LEGEND

- STAGE 18 BOUNDARIES
- EXISTING BOUNDARIES
- STAGE 18A BOUNDARIES (COMPLETED JULY 2021)
- STAGE 18B BOUNDARIES (COMPLETED DEC 2021)
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- EXISTING SEWER LINE
- NEW SEWER MANHOLE
- NEW SEWER WATERSTOP
- NEW STORMWATER LINE
- EXISTING STORMWATER LINE
- NEW STORMWATER MANHOLE
- NEW STORMWATER SUMP / DOUBLE SUMP
- EXISTING TRUNK WATER MAIN

0 10 20 30 40 50m
SCALE BAR

SEWER MANHOLE COORDINATE TABLE

MH No.	mN	mE	LL	IL	DEPTH
SSMHD2	818852.47	405993.22	57.38	55.72	1.66
SSMHD3	818811.37	406009.86	59.62	57.92	1.70
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SSMHD6	818733.61	406050.78	63.47	61.91	1.56
SSMHD7	818709.70	406080.03	65.31	63.81	1.50
SSMHB2	818611.72	406119.88	59.31	58.66	0.65
SSMHB3	818639.46	406132.52	62.68	61.12	1.56
SSMHB4	818642.82	406142.55	63.11	61.76	1.35
SSMHB5	818659.48	406189.62	64.30	62.67	1.63
SSMHB6	818661.94	406220.34	64.62	63.21	1.41
SSMHA1	818686.40	406223.39	66.45	64.07	2.38
SSMHA2	818690.43	406228.54	66.65	64.78	1.87
SSMHA3	818706.39	406233.25	67.28	65.08	2.20
SSMHA4	818781.27	406272.65	74.56	71.97	2.59
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SSMHI6	818667.53	406065.75	64.16	62.30	1.86

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CIVIL WORKS
STAGES 18A & 18B

AS BUILT PLAN - SEWER

SCALE
A1 - 1:500

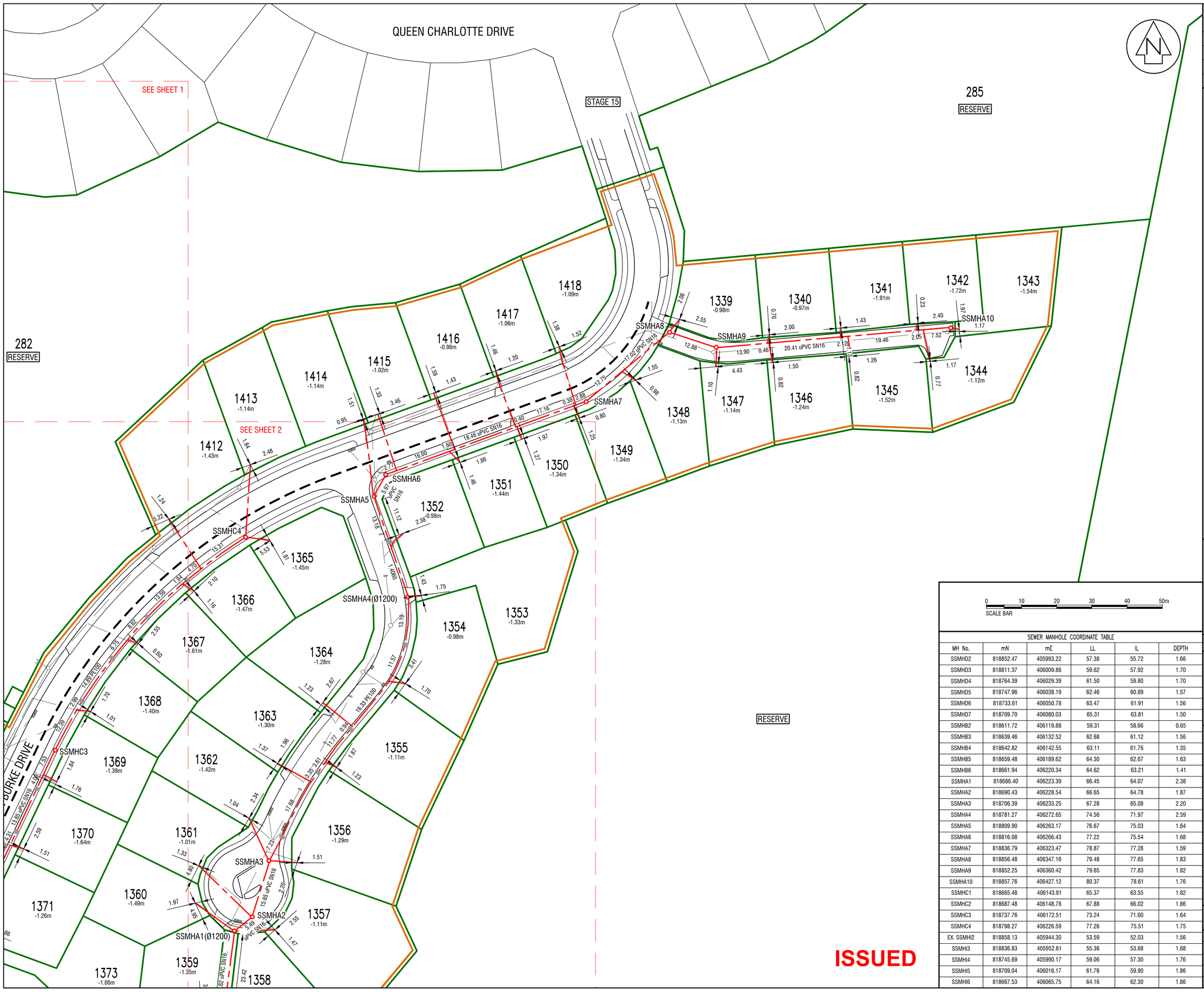
REDUCED SCALE
A3 - 1:1000

	NAME	DATE
FIELDWORK	JCM	12/21
DESIGNED	RFH	04/20
DRAWN	JCM	12/21
CHECKED	RFH	12/21

DRAWING NUMBER
27516ASBSS

SHEET 2 OF 3 SHEETS

REVISION A



REVISION DETAILS		NAME	DATE
A	18B SHEET ADDED	JCM	12/21

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- EXISTING BOUNDARIES
- STAGE 18A BOUNDARIES (COMPLETED JULY 2021)
- STAGE 18B BOUNDARIES (COMPLETED DEC 2021)
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- EXISTING SEWER LINE
- NEW SEWER MANHOLE
- NEW SEWER WATERSTOP
- NEW STORMWATER LINE
- EXISTING STORMWATER LINE
- NEW STORMWATER MANHOLE
- NEW STORMWATER SUMP / DOUBLE SUMP
- EXISTING TRUNK WATER MAIN

0 10 20 30 40 50m
SCALE BAR

SEWER MANHOLE COORDINATE TABLE

MH No.	mN	mE	LL	IL	DEPTH
SSMHD2	818852.47	405993.22	57.38	55.72	1.66
SSMHD3	818811.37	406009.86	59.62	57.92	1.70
SSMHD4	818764.39	406029.39	61.50	59.80	1.70
SSMHD5	818747.96	406038.19	62.46	60.89	1.57
SSMHD6	818733.61	406050.78	63.47	61.91	1.56
SSMHD7	818709.70	406080.03	65.31	63.81	1.50
SSMHB2	818611.72	406119.88	59.31	58.66	0.65
SSMHB3	818639.46	406132.52	62.68	61.12	1.56
SSMHB4	818642.82	406142.55	63.11	61.76	1.35
SSMHB5	818659.48	406189.62	64.30	62.67	1.63
SSMHB6	818661.94	406220.34	64.62	63.21	1.41
SSMHA1	818686.40	406223.39	66.45	64.07	2.38
SSMHA2	818690.43	406228.54	66.65	64.78	1.87
SSMHA3	818706.39	406233.25	67.28	65.08	2.20
SSMHA4	818781.27	406272.65	74.56	71.97	2.59
SSMHA5	818809.90	406263.17	76.67	75.03	1.64
SSMHA6	818816.08	406266.43	77.22	75.54	1.68
SSMHA7	818836.79	406323.47	78.87	77.28	1.59
SSMHA8	818856.48	406347.16	79.48	77.65	1.83
SSMHA9	818852.25	406360.42	79.65	77.83	1.82
SSMHA10	818857.76	406427.12	80.37	78.61	1.76
SSMHC1	818665.48	406143.91	65.37	63.55	1.82
SSMHC2	818687.48	406148.78	67.88	66.02	1.86
SSMHC3	818737.76	406172.51	73.24	71.60	1.64
SSMHC4	818798.27	406226.59	77.26	75.51	1.75
EX. SSMHI2	818858.13	405944.30	53.59	52.03	1.56
SSMHI3	818836.83	405952.61	55.36	53.68	1.68
SSMHI4	818745.69	405990.17	59.06	57.30	1.76
SSMHI5	818709.04	406016.17	61.76	59.90	1.86
SSMHI6	818667.53	406065.75	64.16	62.30	1.86

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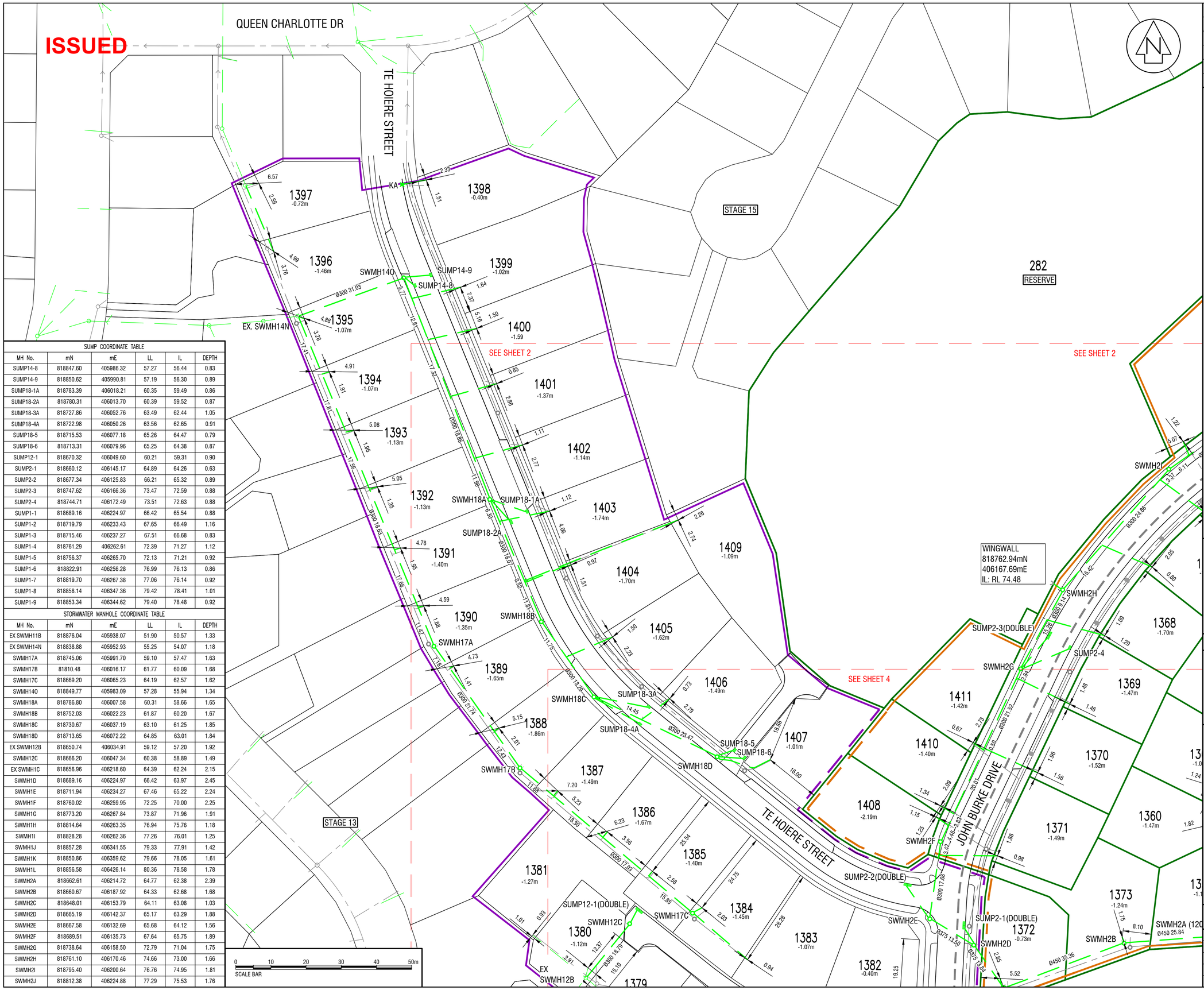
CIVIL WORKS
STAGES 18A & 18B

AS BUILT PLAN - SEWER

SCALE A1 - 1:500
REDUCED SCALE A3 - 1:1000

	NAME	DATE
FIELDWORK	JCM	12/21
DESIGNED	RFH	04/20
DRAWN	JCM	12/21
CHECKED	RFH	12/21

DRAWING NUMBER 27516ASBSS
SHEET 3 OF 3 SHEETS
REVISION A



SUMP COORDINATE TABLE					
MH No.	mN	mE	LL	IL	DEPTH
SUMP14-8	818847.60	405986.32	57.27	56.44	0.83
SUMP14-9	818850.62	405990.81	57.19	56.30	0.89
SUMP18-1A	818783.39	406018.21	60.35	59.49	0.86
SUMP18-2A	818780.31	406013.70	60.39	59.52	0.87
SUMP18-3A	818727.86	406052.76	63.49	62.44	1.05
SUMP18-4A	818722.98	406050.26	63.56	62.65	0.91
SUMP18-5	818715.53	406077.18	65.26	64.47	0.79
SUMP18-6	818713.31	406079.96	65.25	64.38	0.87
SUMP12-1	818670.32	406049.60	60.21	59.31	0.90
SUMP2-1	818660.12	406145.17	64.89	64.26	0.63
SUMP2-2	818677.34	406125.83	66.21	65.32	0.89
SUMP2-3	818747.62	406166.36	73.47	72.59	0.88
SUMP2-4	818744.71	406172.49	73.51	72.63	0.88
SUMP1-1	818689.16	406224.97	66.42	65.54	0.88
SUMP1-2	818719.79	406233.43	67.65	66.49	1.16
SUMP1-3	818715.46	406237.27	67.51	66.68	0.83
SUMP1-4	818761.29	406262.61	72.39	71.27	1.12
SUMP1-5	818756.37	406265.70	72.13	71.21	0.92
SUMP1-6	818822.91	406256.28	76.99	76.13	0.86
SUMP1-7	818819.70	406267.38	77.06	76.14	0.92
SUMP1-8	818858.14	406347.36	79.42	78.41	1.01
SUMP1-9	818853.34	406344.62	79.40	78.48	0.92

STORMWATER MANHOLE COORDINATE TABLE					
MH No.	mN	mE	LL	IL	DEPTH
EX SWMH11B	818876.04	405938.07	51.90	50.57	1.33
EX SWMH14N	818838.88	405952.93	55.25	54.07	1.18
SWMH17A	818745.06	405991.70	59.10	57.47	1.63
SWMH17B	81810.48	406016.17	61.77	60.09	1.68
SWMH17C	818669.20	406065.23	64.19	62.57	1.62
SWMH14O	818849.77	405983.09	57.28	55.94	1.34
SWMH18A	818786.80	406007.58	60.31	58.66	1.65
SWMH18B	818752.03	406022.23	61.87	60.20	1.67
SWMH18C	818730.67	406037.19	63.10	61.25	1.85
SWMH18D	818713.65	406072.22	64.85	63.01	1.84
EX SWMH12B	818650.74	406034.91	59.12	57.20	1.92
SWMH12C	818666.20	406047.34	60.38	58.89	1.49
EX SWMH1C	818656.96	406218.60	64.39	62.24	2.15
SWMH1D	818689.16	406224.97	66.42	63.97	2.45
SWMH1E	818711.94	406234.27	67.46	65.22	2.24
SWMH1F	818760.02	406259.95	72.25	70.00	2.25
SWMH1G	818773.20	406267.84	73.87	71.96	1.91
SWMH1H	818814.64	406263.35	76.94	75.76	1.18
SWMH1I	818828.28	406262.36	77.26	76.01	1.25
SWMH1J	818857.28	406341.55	79.33	77.91	1.42
SWMH1K	818850.86	406359.62	79.66	78.05	1.61
SWMH1L	818856.58	406426.14	80.36	78.58	1.78
SWMH2A	818662.61	406214.72	64.77	62.38	2.39
SWMH2B	818660.67	406187.92	64.33	62.68	1.68
SWMH2C	818648.01	406153.79	64.11	63.08	1.03
SWMH2D	818665.19	406142.37	65.17	63.29	1.88
SWMH2E	818667.58	406132.69	65.68	64.12	1.56
SWMH2F	818689.51	406135.73	67.64	65.75	1.89
SWMH2G	818738.64	406158.50	72.79	71.04	1.75
SWMH2H	818761.10	406170.46	74.66	73.00	1.66
SWMH2I	818795.40	406200.64	76.76	74.95	1.81
SWMH2J	818812.38	406224.88	77.29	75.53	1.76

REVISION DETAILS		NAME	DATE
A	STAGE 18B DATA ADDED	JCM	12/21

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5. ALL DIMENSIONS ARE SHOWN IN METRES.
6. COUNCIL REFERENCE RC8072.
7. ALL WORKS COMPLETED BY MCLATCHIE AND SHARP LTD, JEFF MCLATCHIE REGISTRATION NUMBER 12333, FEB 2020 - DEC 2021.
8. ALL ELECTRONIC CAD DATA MUST BE READ IN CONJUNCTION WITH THESE NOTES.
9. ALL MANHOLES ARE Ø1050mm WITH MAESTRO HEAVY DUTY CLASS D HINGED LID UNLESS SPECIFIED OTHERWISE.
10. ALL NEW SEWER GRAVITY MAINS ARE 150mmØ uPVC SN16 UNLESS SPECIFIED OTHERWISE.
11. ALL NEW SEWER & STORMWATER LATERALS ARE 100mmØ uPVC SN16.
12. ALL NEW SUMP LEADS ARE 300mmØ BOSS PIPE UNLESS NOTED. ALL SUMPS ARE SINGLE SUMPS UNLESS SPECIFIED OTHERWISE.
13. ALL STORMWATER MAINS Ø300-Ø375 ARE CIVIL BOSS PIPE UNLESS SPECIFIED OTHERWISE.
14. ALL STORMWATER MAINS >Ø375 ARE RCRRJ CLASS 2 UNLESS SPECIFIED OTHERWISE.
15. ALL SUMP TOPS ARE FITTED WITH P&I "PAMELLA - GENERATION 3" GRILL LIDS.
16. ALL STORMWATER KERB OUTLETS ARE GALVANISED IRON WITH GALVANISED KERB ADAPTOR.
17. THE DEPTH TO INVERT OF PRIVATE CONNECTIONS IS BASED ON INFORMATION PROVIDED BY THE CONTRACTOR AND TAKEN FROM GROUND LEVEL AT TIME OF COMPLETION OF THE SUBDIVISION. CONNECTIONS TO BE LOCATED ON SITE PRIOR TO DETAILED DESIGN.

LEGEND

- STAGE 18 BOUNDARIES
- EXISTING BOUNDARIES
- STAGE 18A BOUNDARIES (COMPLETED JULY 2021)
- STAGE 18B BOUNDARIES (COMPLETED DEC 2021)
- NEW SEWER LINE
- EXISTING SEWER LINE
- NEW SEWER MANHOLE
- NEW STORMWATER LINE
- EXISTING STORMWATER LINE
- NEW STORMWATER MANHOLE
- NEW STORMWATER SUMP / DOUBLE SUMP
- KA NEW STORMWATER KERB ADAPTER
- NEW STORMWATER WATERSTOP
- EXISTING TRUNK WATER MAIN

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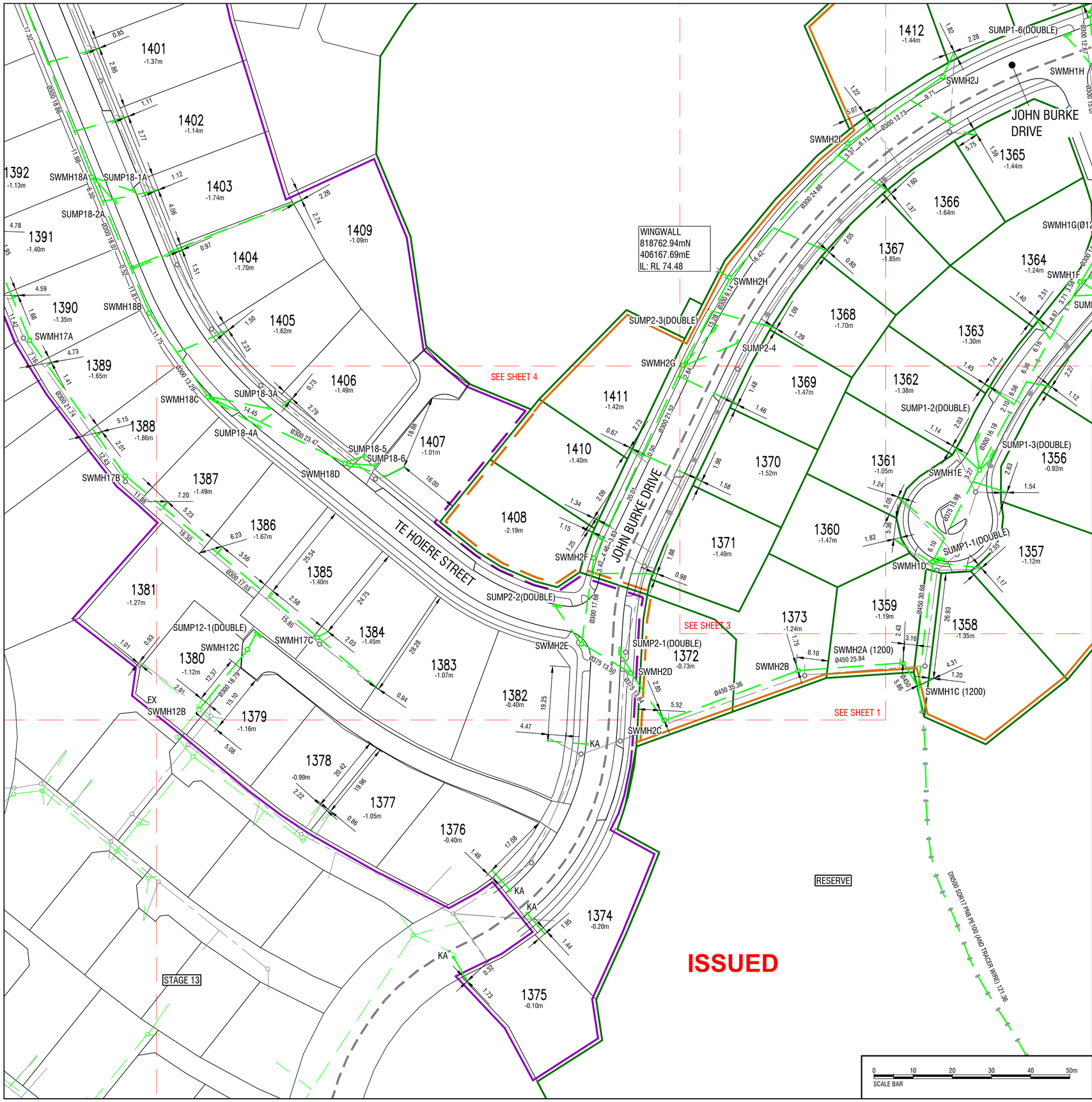
PROJECT
AOTEA SUBDIVISION
CIVIL WORKS
STAGES 18A & 18B

AS BUILT PLAN
STORMWATER

SCALE A1 - 1:500
REDUCED SCALE A3 - 1:1000

	NAME	DATE
FIELDWORK	JCM	12/21
DESIGNED	RFH	04/20
DRAWN	JCM	12/21
CHECKED	RFH	12/21

DRAWING NUMBER 27516ASBSW
SHEET 1 OF 5 SHEETS
REVISION A



REVISION DETAILS		NAME	DATE
A	STAGE 18B DATA ADDED	JCM	12/21

NOTES:

1. THIS PLAN IS TO BE USED FOR AS BUILT PURPOSES ONLY AND IS NOT TO BE RELIED UPON FOR ANY OTHER PURPOSE WITHOUT THE CONSENT OF CUTTRISS CONSULTANTS LIMITED.
2. COORDINATES ARE IN TERMS OF NEW ZEALAND GEODETIC 2000 DATUM, WELLINGTON CIRCUIT.
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9. ALL MANHOLES ARE Ø1050mm WITH MAESTRO HEAVY DUTY CLASS D HINGED LID UNLESS SPECIFIED OTHERWISE.
10. ALL NEW SEWER GRAVITY MAINS ARE 150mmØ uPVC SN16 UNLESS SPECIFIED OTHERWISE.
11. ALL NEW SEWER & STORMWATER LATERALS ARE 100mmØ uPVC SN16.
12. ALL NEW SUMP LEADS ARE 300mmØ BOSS PIPE UNLESS NOTED. ALL SUMPS ARE SINGLE SUMPS UNLESS SPECIFIED OTHERWISE.
13. ALL STORMWATER MAINS Ø300-Ø375 ARE CIVIL BOSS PIPE UNLESS SPECIFIED OTHERWISE.
14. ALL STORMWATER MAINS >Ø375 ARE RCRRJ CLASS 2 UNLESS SPECIFIED OTHERWISE.
15. ALL SUMP TOPS ARE FITTED WITH P&I "PAMELLA - GENERATION 3" GRILL LIDS.
16. ALL STORMWATER KERB OUTLETS ARE GALVANISED IRON WITH GALVANISED KERB ADAPTOR.
17. THE DEPTH TO INVERT OF PRIVATE CONNECTIONS IS BASED ON INFORMATION PROVIDED BY THE CONTRACTOR AND TAKEN FROM GROUND LEVEL AT TIME OF COMPLETION OF THE SUBDIVISION. CONNECTIONS TO BE LOCATED ON SITE PRIOR TO DETAILED DESIGN.

LEGEND

- STAGE 18 BOUNDARIES
- EXISTING BOUNDARIES
- STAGE 18A BOUNDARIES (COMPLETED JULY 2021)
- STAGE 18B BOUNDARIES (COMPLETED DEC 2021)
- NEW SEWER LINE
- EXISTING SEWER LINE
- NEW SEWER MANHOLE
- NEW STORMWATER LINE
- EXISTING STORMWATER LINE
- NEW STORMWATER MANHOLE
- NEW STORMWATER SUMP / DOUBLE SUMP
- KA NEW STORMWATER KERB ADAPTER
- NEW STORMWATER WATERSTOP
- EXISTING TRUNK WATER MAIN

SUMP COORDINATE TABLE

MH No.	mN	mE	LL	IL	DEPTH
SUMP14-8	818847.60	405986.32	57.27	56.44	0.83
SUMP14-9	818850.62	405990.81	57.19	56.30	0.89
SUMP18-1A	818783.39	406018.21	60.35	59.49	0.86
SUMP18-2A	818780.31	406013.70	60.39	59.52	0.87
SUMP18-3A	818727.86	406052.76	63.49	62.44	1.05
SUMP18-4A	818722.98	406050.26	63.56	62.65	0.91
SUMP18-5	818715.53	406077.18	65.26	64.47	0.79
SUMP18-6	818713.31	406079.96	65.25	64.38	0.87
SUMP12-1	818670.32	406049.60	60.21	59.31	0.90
SUMP2-1	818660.12	406145.17	64.89	64.26	0.63
SUMP2-2	818677.34	406125.83	66.21	65.32	0.89
SUMP2-3	818747.62	406166.36	73.47	72.59	0.88
SUMP2-4	818744.71	406172.49	73.51	72.63	0.88
SUMP1-1	818689.16	406224.97	66.42	65.54	0.88
SUMP1-2	818719.79	406233.43	67.65	66.49	1.16
SUMP1-3	818715.46	406237.27	67.51	66.68	0.83
SUMP1-4	818761.29	406262.61	72.39	71.27	1.12
SUMP1-5	818756.37	406265.70	72.13	71.21	0.92
SUMP1-6	818822.91	406256.28	76.99	76.13	0.86
SUMP1-7	818819.70	406267.38	77.06	76.14	0.92
SUMP1-8	818858.14	406347.36	79.42	78.41	1.01
SUMP1-9	818853.34	406344.62	79.40	78.48	0.92

STORMWATER MANHOLE COORDINATE TABLE

MH No.	mN	mE	LL	IL	DEPTH
EX SWMH11B	818876.04	405938.07	51.90	50.57	1.33
EX SWMH14N	818838.88	405952.93	55.25	54.07	1.18
SWMH17A	818745.06	405991.70	59.10	57.47	1.63
SWMH17B	81810.48	406016.17	61.77	60.09	1.68
SWMH17C	818669.20	406065.23	64.19	62.57	1.62
SWMH14O	818849.77	405983.09	57.28	55.94	1.34
SWMH18A	818786.80	406007.58	60.31	58.66	1.65
SWMH18B	818752.03	406022.23	61.87	60.20	1.67
SWMH18C	818730.67	406037.19	63.10	61.25	1.85
SWMH18D	818713.65	406072.22	64.85	63.01	1.84
EX SWMH12B	818650.74	406034.91	59.12	57.20	1.92
SWMH12C	818666.20	406047.34	60.38	58.89	1.49
EX SWMH1C	818656.96	406218.60	64.39	62.24	2.15
SWMH1D	818689.16	406224.97	66.42	63.97	2.45
SWMH1E	818711.94	406234.27	67.46	65.22	2.24
SWMH1F	818760.02	406259.95	72.25	70.00	2.25
SWMH1G	818773.20	406267.84	73.87	71.96	1.91
SWMH1H	818814.64	406263.35	76.94	75.76	1.18
SWMH1I	818828.28	406262.36	77.26	76.01	1.25
SWMH1J	818857.28	406341.55	79.33	77.91	1.42
SWMH1K	818850.86	406359.62	79.66	78.05	1.61
SWMH1L	818856.58	406426.14	80.36	78.58	1.78
SWMH2A	818662.61	406214.72	64.77	62.38	2.39
SWMH2B	818660.67	406187.92	64.33	62.68	1.68
SWMH2C	818648.01	406153.79	64.11	63.08	1.03
SWMH2D	818665.19	406142.37	65.17	63.29	1.88
SWMH2E	818667.58	406132.69	65.68	64.12	1.56
SWMH2F	818689.51	406135.73	67.64	65.75	1.89
SWMH2G	818738.64	406158.50	72.79	71.04	1.75
SWMH2H	818761.10	406170.46	74.66	73.00	1.66
SWMH2I	818795.40	406200.64	76.76	74.95	1.81
SWMH2J	818812.38	406224.88	77.29	75.53	1.76

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CIVIL WORKS
STAGES 18A & 18B

AS BUILT PLAN
STORMWATER

SCALE
A1 - 1:500

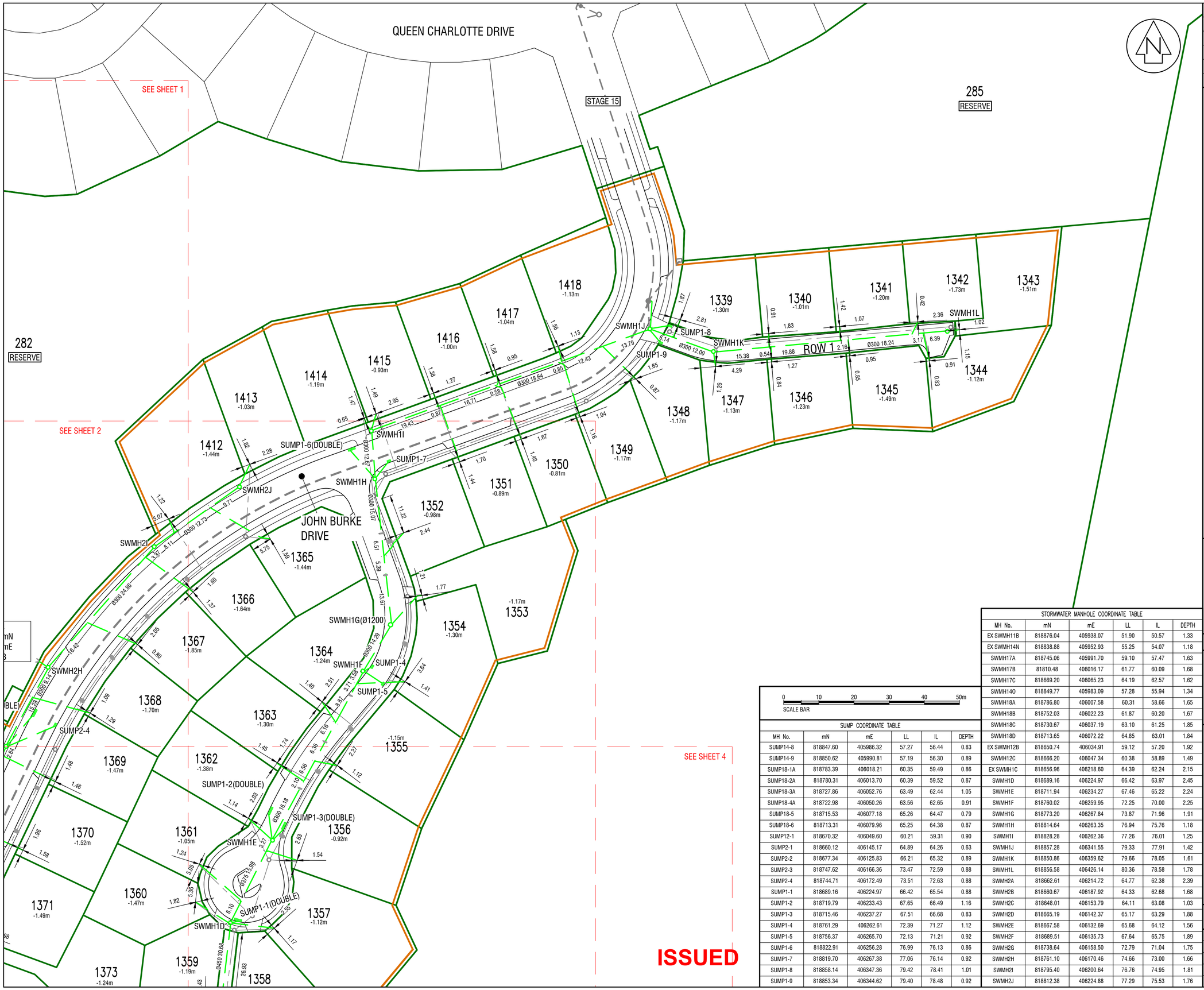
REDUCED SCALE
A3 - 1:1000

	NAME	DATE
FIELDWORK	JCM	12/21
DESIGNED	RFH	04/20
DRAWN	JCM	12/21
CHECKED	RFH	12/21

DRAWING NUMBER
27516ASBSW

SHEET 2 OF 5 SHEETS

REVISION A



REVISION DETAILS		NAME	DATE
A	STAGE 18B DATA ADDED	JCM	12/21

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11. ALL NEW SEWER & STORMWATER LATERALS ARE 100mmØ uPVC SN16.
12. ALL NEW SUMP LEADS ARE 300mmØ BOSS PIPE UNLESS NOTED. ALL SUMPS ARE SINGLE SUMPS UNLESS SPECIFIED OTHERWISE.
13. ALL STORMWATER MAINS Ø300-Ø375 ARE CIVIL BOSS PIPE UNLESS SPECIFIED OTHERWISE.
14. ALL STORMWATER MAINS >Ø375 ARE RCRRJ CLASS 2 UNLESS SPECIFIED OTHERWISE.
15. ALL SUMP TOPS ARE FITTED WITH P&I "PAMELLA - GENERATION 3" GRILL LIDS.
16. ALL STORMWATER KERB OUTLETS ARE GALVANISED IRON WITH GALVANISED KERB ADAPTOR.
17. THE DEPTH TO INVERT OF PRIVATE CONNECTIONS IS BASED ON INFORMATION PROVIDED BY THE CONTRACTOR AND TAKEN FROM GROUND LEVEL AT TIME OF COMPLETION OF THE SUBDIVISION. CONNECTIONS TO BE LOCATED ON SITE PRIOR TO DETAILED DESIGN.

LEGEND

- STAGE 18 BOUNDARIES
- EXISTING BOUNDARIES
- STAGE 18A BOUNDARIES (COMPLETED JULY 2021)
- STAGE 18B BOUNDARIES (COMPLETED DEC 2021)
- NEW SEWER LINE
- EXISTING SEWER LINE
- NEW SEWER MANHOLE
- NEW STORMWATER LINE
- EXISTING STORMWATER LINE
- NEW STORMWATER MANHOLE
- NEW STORMWATER SUMP / DOUBLE SUMP
- KA NEW STORMWATER KERB ADAPTER
- NEW STORMWATER WATERSTOP
- EXISTING TRUNK WATER MAIN

0 10 20 30 40 50m
SCALE BAR

SUMP COORDINATE TABLE

MH No.	mN	mE	LL	IL	DEPTH
SUMP14-8	818847.60	405986.32	57.27	56.44	0.83
SUMP14-9	818850.62	405990.81	57.19	56.30	0.89
SUMP18-1A	818783.39	406018.21	60.35	59.49	0.86
SUMP18-2A	818780.31	406013.70	60.39	59.52	0.87
SUMP18-3A	818727.86	406052.76	63.49	62.44	1.05
SUMP18-4A	818722.98	406050.26	63.56	62.65	0.91
SUMP18-5	818715.53	406077.18	65.26	64.47	0.79
SUMP18-6	818713.31	406079.96	65.25	64.38	0.87
SUMP12-1	818670.32	406049.60	60.21	59.31	0.90
SUMP2-1	818660.12	406145.17	64.89	64.26	0.63
SUMP2-2	818677.34	406125.83	66.21	65.32	0.89
SUMP2-3	818747.62	406166.36	73.47	72.59	0.88
SUMP2-4	818744.71	406172.49	73.51	72.63	0.88
SUMP1-1	818689.16	406224.97	66.42	65.54	0.88
SUMP1-2	818719.79	406233.43	67.65	66.49	1.16
SUMP1-3	818715.46	406237.27	67.51	66.68	0.83
SUMP1-4	818761.29	406262.61	72.39	71.27	1.12
SUMP1-5	818756.37	406265.70	72.13	71.21	0.92
SUMP1-6	818822.91	406256.28	76.99	76.13	0.86
SUMP1-7	818819.70	406267.38	77.06	76.14	0.92
SUMP1-8	818858.14	406347.36	79.42	78.41	1.01
SUMP1-9	818853.34	406344.62	79.40	78.48	0.92

STORMWATER MANHOLE COORDINATE TABLE

MH No.	mN	mE	LL	IL	DEPTH
EX SWMH11B	818876.04	405938.07	51.90	50.57	1.33
EX SWMH14N	818838.88	405952.93	55.25	54.07	1.18
SWMH17A	818745.06	405991.70	59.10	57.47	1.63
SWMH17B	81810.48	406016.17	61.77	60.09	1.68
SWMH17C	818669.20	406065.23	64.19	62.57	1.62
SWMH14O	818849.77	405983.09	57.28	55.94	1.34
SWMH18A	818786.80	406007.58	60.31	58.66	1.65
SWMH18B	818752.03	406022.23	61.87	60.20	1.67
SWMH18C	818730.67	406037.19	63.10	61.25	1.85
SWMH18D	818713.65	406072.22	64.85	63.01	1.84
EX SWMH12B	818650.74	406034.91	59.12	57.20	1.92
SWMH12C	818666.20	406047.34	60.38	58.89	1.49
EX SWMH1C	818656.96	406218.60	64.39	62.24	2.15
SWMH1D	818689.16	406224.97	66.42	63.97	2.45
SWMH1E	818711.94	406234.27	67.46	65.22	2.24
SWMH1F	818760.02	406259.95	72.25	70.00	2.25
SWMH1G	818773.20	406267.84	73.87	71.96	1.91
SWMH1H	818814.64	406263.35	76.94	75.76	1.18
SWMH1I	818828.28	406262.36	77.26	76.01	1.25
SWMH1J	818857.28	406341.55	79.33	77.91	1.42
SWMH1K	818850.86	406359.62	79.66	78.05	1.61
SWMH1L	818856.58	406426.14	80.36	78.58	1.78
SWMH2A	818662.61	406214.72	64.77	62.38	2.39
SWMH2B	818660.67	406187.92	64.33	62.68	1.68
SWMH2C	818648.01	406153.79	64.11	63.08	1.03
SWMH2D	818665.19	406142.37	65.17	63.29	1.88
SWMH2E	818667.58	406132.69	65.68	64.12	1.56
SWMH2F	818689.51	406135.73	67.64	65.75	1.89
SWMH2G	818738.64	406158.50	72.79	71.04	1.75
SWMH2H	818761.10	406170.46	74.66	73.00	1.66
SWMH2I	818795.40	406200.64	76.76	74.95	1.81
SWMH2J	818812.38	406224.88	77.29	75.53	1.76

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CIVIL WORKS
STAGES 18A & 18B

AS BUILT PLAN
STORMWATER

SCALE
A1 - 1:500

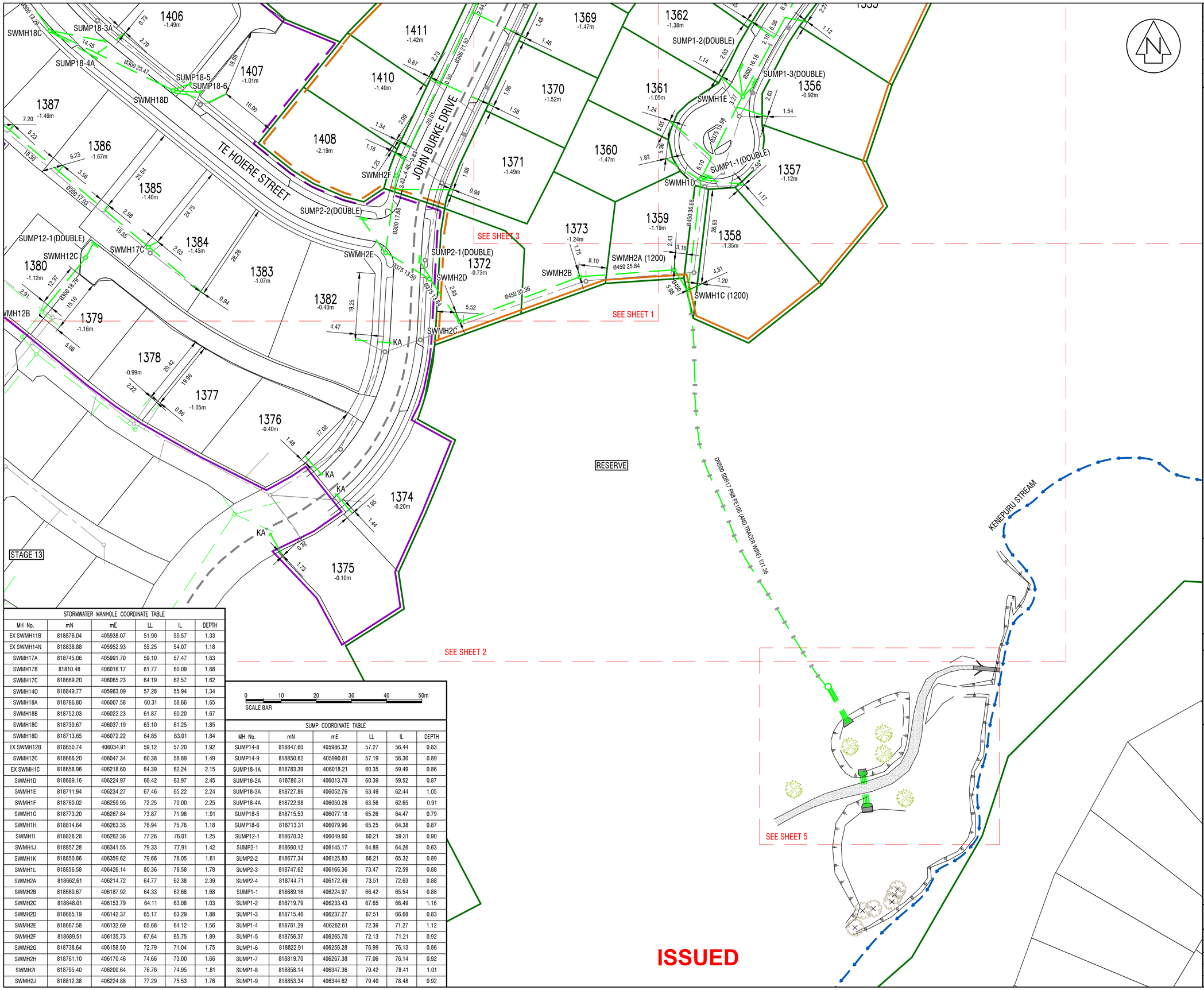
REDUCED SCALE
A3 - 1:1000

	NAME	DATE
FIELDWORK	JCM	12/21
DESIGNED	RFH	04/20
DRAWN	JCM	12/21
CHECKED	RFH	12/21

DRAWING NUMBER
27516ASBSW

SHEET 3 OF 5 SHEETS

REVISION A



STORMWATER MANHOLE COORDINATE TABLE					
MH No.	mN	mE	LL	IL	DEPTH
EX SWMH11B	818876.04	405938.07	51.90	50.57	1.33
EX SWMH14N	818838.88	405952.93	55.25	54.07	1.18
SWMH17A	818745.06	405991.70	59.10	57.47	1.63
SWMH17B	81810.48	406016.17	61.77	60.09	1.68
SWMH17C	818669.20	406065.23	64.19	62.57	1.62
SWMH14O	818849.77	405983.09	57.28	55.94	1.34
SWMH18A	818786.80	406007.58	60.31	58.66	1.65
SWMH18B	818752.03	406022.23	61.87	60.20	1.67
SWMH18C	818730.67	406037.19	63.10	61.25	1.85
SWMH18D	818713.65	406072.22	64.85	63.01	1.84
EX SWMH12B	818650.74	406034.91	59.12	57.20	1.92
SWMH12C	818666.20	406047.34	60.38	58.89	1.49
EX SWMH1C	818656.96	406218.60	64.39	62.24	2.15
SWMH1D	818689.16	406224.97	66.42	63.97	2.45
SWMH1E	818711.94	406234.27	67.46	65.22	2.24
SWMH1F	818760.02	406259.95	72.25	70.00	2.25
SWMH1G	818773.20	406267.84	73.87	71.96	1.91
SWMH1H	818814.64	406263.35	76.94	75.76	1.18
SWMH1I	818828.28	406262.36	77.26	76.01	1.25
SWMH1J	818857.28	406341.55	79.33	77.91	1.42
SWMH1K	818850.86	406359.62	79.66	78.05	1.61
SWMH1L	818856.58	406426.14	80.36	78.58	1.78
SWMH2A	818662.61	406214.72	64.77	62.38	2.39
SWMH2B	818660.67	406187.92	64.33	62.68	1.68
SWMH2C	818648.01	406153.79	64.11	63.08	1.03
SWMH2D	818665.19	406142.37	65.17	63.29	1.88
SWMH2E	818667.58	406132.69	65.68	64.12	1.56
SWMH2F	818689.51	406135.73	67.64	65.75	1.89
SWMH2G	818738.64	406158.50	72.79	71.04	1.75
SWMH2H	818761.10	406170.46	74.66	73.00	1.66
SWMH2I	818795.40	406200.64	76.76	74.95	1.81
SWMH2J	818812.38	406224.88	77.29	75.53	1.76

SUMP COORDINATE TABLE					
MH No.	mN	mE	LL	IL	DEPTH
SUMP14-8	818847.60	405986.32	57.27	56.44	0.83
SUMP14-9	818850.62	405990.81	57.19	56.30	0.89
SUMP18-1A	818783.39	406018.21	60.35	59.49	0.86
SUMP18-2A	818780.31	406013.70	60.39	59.52	0.87
SUMP18-3A	818727.86	406052.76	63.49	62.44	1.05
SUMP18-4A	818722.98	406050.26	63.56	62.65	0.91
SUMP18-5	818715.53	406077.18	65.26	64.47	0.79
SUMP18-6	818713.31	406079.96	65.25	64.38	0.87
SUMP12-1	818670.32	406049.60	60.21	59.31	0.90
SUMP2-1	818660.12	406145.17	64.89	64.26	0.63
SUMP2-2	818677.34	406125.83	66.21	65.32	0.89
SUMP2-3	818747.62	406166.36	73.47	72.59	0.88
SUMP2-4	818744.71	406172.49	73.51	72.63	0.88
SUMP1-1	818689.16	406224.97	66.42	65.54	0.88
SUMP1-2	818719.79	406233.43	67.65	66.49	1.16
SUMP1-3	818715.46	406237.27	67.51	66.68	0.83
SUMP1-4	818761.29	406262.61	72.39	71.27	1.12
SUMP1-5	818756.37	406265.70	72.13	71.21	0.92
SUMP1-6	818822.91	406256.28	76.99	76.13	0.86
SUMP1-7	818819.70	406267.38	77.06	76.14	0.92
SUMP1-8	818858.14	406347.36	79.42	78.41	1.01
SUMP1-9	818853.34	406344.62	79.40	78.48	0.92

ISSUED

	REVISION DETAILS	NAME	DATE
A	STAGE 18B DATA ADDED	JCM	12/21

NOTES:

1. THIS PLAN IS TO BE USED FOR AS BUILT PURPOSES ONLY AND IS NOT TO BE RELIED UPON FOR ANY OTHER PURPOSE WITHOUT THE CONSENT OF CUTTRISS CONSULTANTS LIMITED.
2. COORDINATES ARE IN TERMS OF NEW ZEALAND GEODETIC 2000 DATUM, WELLINGTON CIRCUIT.
3. LEVELS ARE IN TERMS OF MEAN SEA LEVEL WELLINGTON VERTICAL DATUM 1953. ORIGIN OF LEVELS: SP 16 DP 457335 [F27G], SOURCED FROM LINZ ELLIPSOIDAL HEIGHT CONVERSION, AUGUST 2020
4. SURVEYED BY: J MACPHAIL, FEB 2020 - DEC 2021
5. ALL DIMENSIONS ARE SHOWN IN METRES.
6. COUNCIL REFERENCE RC8072.
7. ALL WORKS COMPLETED BY MCLATCHIE AND SHARP LTD, JEFF MCLATCHIE REGISTRATION NUMBER 12333, FEB 2020 - DEC 2021.
8. ALL ELECTRONIC CAD DATA MUST BE READ IN CONJUNCTION WITH THESE NOTES.
9. ALL MANHOLES ARE Ø1050mm WITH MAESTRO HEAVY DUTY CLASS D HINGED LID UNLESS SPECIFIED OTHERWISE.
10. ALL NEW SEWER GRAVITY MAINS ARE 150mmØ uPVC SN16 UNLESS SPECIFIED OTHERWISE.
11. ALL NEW SEWER & STORMWATER LATERALS ARE 100mmØ uPVC SN16.
12. ALL NEW SUMP LEADS ARE 300mmØ BOSS PIPE UNLESS NOTED. ALL SUMPS ARE SINGLE SUMPS UNLESS SPECIFIED OTHERWISE.
13. ALL STORMWATER MAINS Ø300-Ø375 ARE CIVIL BOSS PIPE UNLESS SPECIFIED OTHERWISE.
14. ALL STORMWATER MAINS >Ø375 ARE RCRRJ CLASS 2 UNLESS SPECIFIED OTHERWISE.
15. ALL SUMP TOPS ARE FITTED WITH P&I "PAMELLA - GENERATION 3" GRILL LIDS.
16. ALL STORMWATER KERB OUTLETS ARE GALVANISED IRON WITH GALVANISED KERB ADAPTOR.
17. THE DEPTH TO INVERT OF PRIVATE CONNECTIONS IS BASED ON INFORMATION PROVIDED BY THE CONTRACTOR AND TAKEN FROM GROUND LEVEL AT TIME OF COMPLETION OF THE SUBDIVISION. CONNECTIONS TO BE LOCATED ON SITE PRIOR TO DETAILED DESIGN.

LEGEND

- STAGE 18 BOUNDARIES
- EXISTING BOUNDARIES
- STAGE 18A BOUNDARIES (COMPLETED JULY 2021)
- STAGE 18B BOUNDARIES (COMPLETED DEC 2021)
- NEW SEWER LINE
- EXISTING SEWER LINE
- NEW SEWER MANHOLE
- NEW STORMWATER LINE
- EXISTING STORMWATER LINE
- NEW STORMWATER MANHOLE
- NEW STORMWATER SUMP / DOUBLE SUMP
- KA NEW STORMWATER KERB ADAPTER
- NEW STORMWATER WATERSTOP
- EXISTING TRUNK WATER MAIN

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PROJECT
AOTEA SUBDIVISION
CIVIL WORKS
STAGES 18A & 18B

AS BUILT PLAN
STORMWATER

SCALE
A1 - 1:500

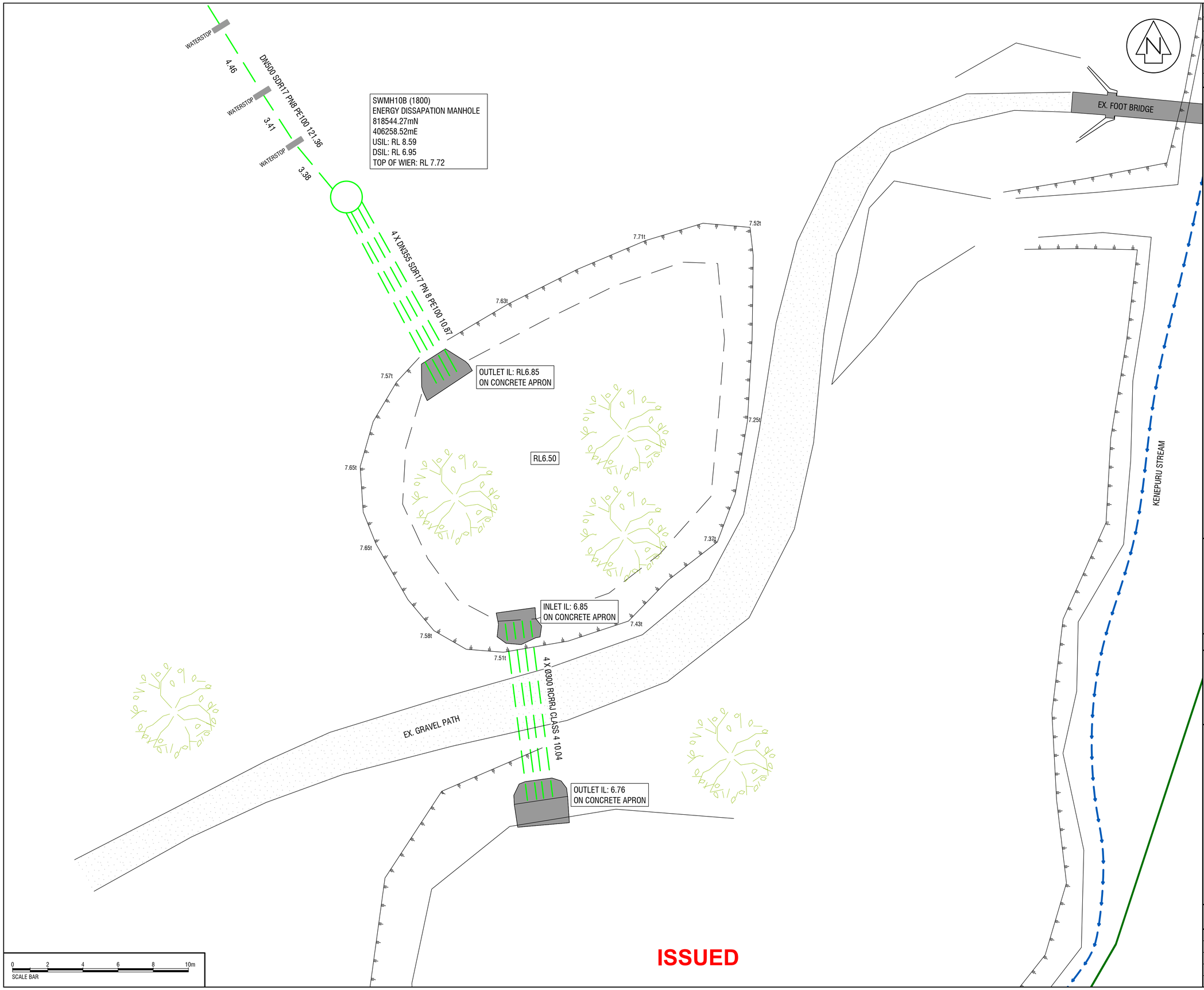
REDUCED SCALE
A3 - 1:1000

	NAME	DATE
FIELDWORK	JCM	12/21
DESIGNED	RFH	04/20
DRAWN	JCM	12/21
CHECKED	RFH	12/21

DRAWING NUMBER
27516ASBSW

SHEET 4 OF 5 SHEETS

REVISION A



	REVISION DETAILS	NAME	DATE
A	STAGE 18B DATA ADDED	JCM	12/21

NOTES:

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9. ALL MANHOLES ARE Ø1050mm WITH MAESTRO HEAVY DUTY CLASS D HINGED LID UNLESS SPECIFIED OTHERWISE.
10. ALL NEW SEWER GRAVITY MAINS ARE 150mmØ uPVC SN16 UNLESS SPECIFIED OTHERWISE.
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13. ALL STORMWATER MAINS Ø300-Ø375 ARE CIVIL BOSS PIPE UNLESS SPECIFIED OTHERWISE.
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16. ALL STORMWATER KERB OUTLETS ARE GALVANISED IRON WITH GALVANISED KERB ADAPTOR.
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LEGEND

- STAGE 18 BOUNDARIES
- EXISTING BOUNDARIES
- STAGE 18A BOUNDARIES (COMPLETED JULY 2021)
- STAGE 18B BOUNDARIES (COMPLETED DEC 2021)
- NEW SEWER LINE
- EXISTING SEWER LINE
- NEW SEWER MANHOLE
- NEW STORMWATER LINE
- EXISTING STORMWATER LINE
- NEW STORMWATER MANHOLE
- NEW STORMWATER SUMP / DOUBLE SUMP
- KA NEW STORMWATER KERB ADAPTER
- NEW STORMWATER WATERSTOP
- EXISTING TRUNK WATER MAIN

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CIVIL WORKS
STAGES 18A & 18B

AS BUILT PLAN
STORMWATER

SCALE
A1 - 1:500

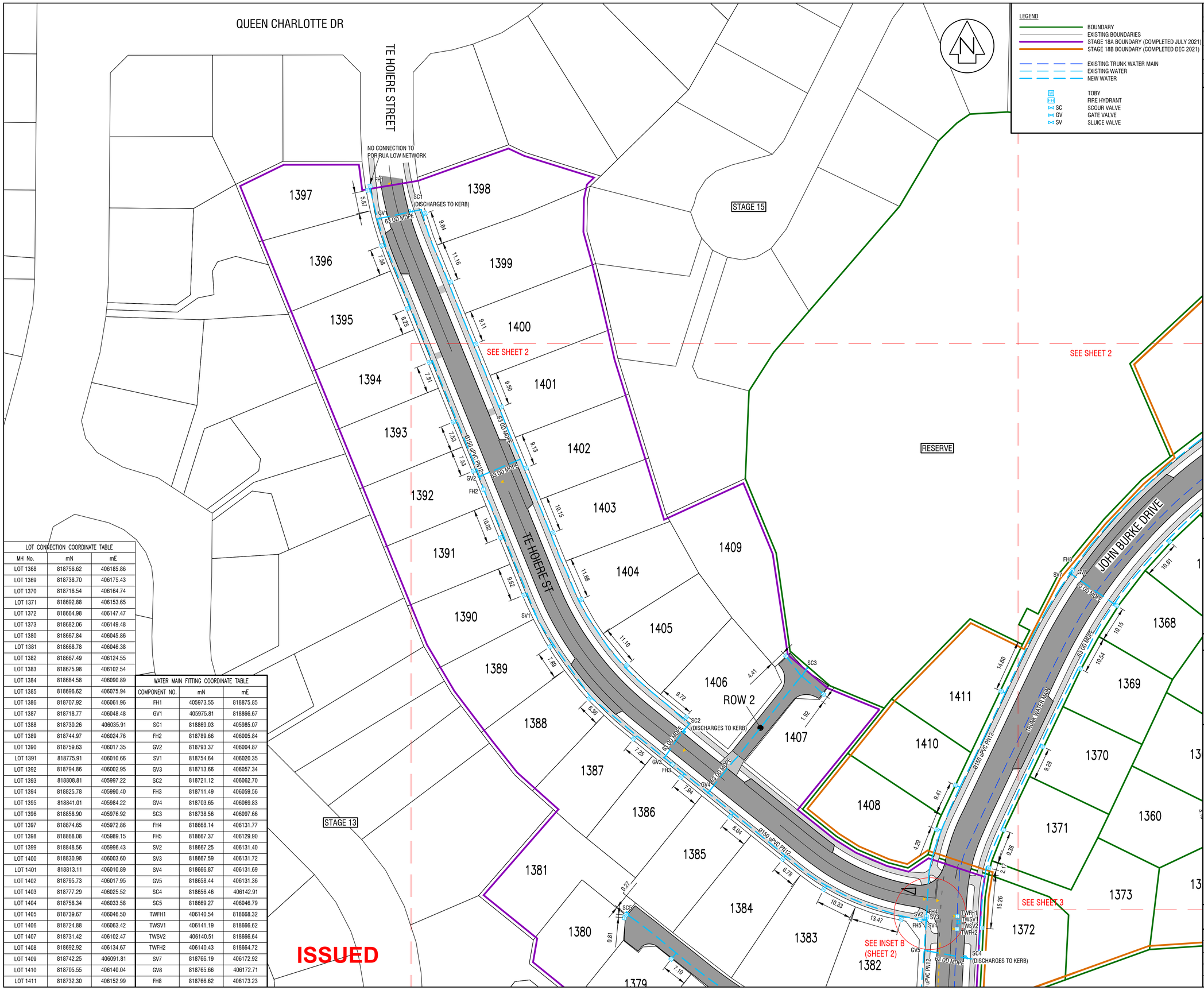
REDUCED SCALE
A3 - 1:1000

	NAME	DATE
FIELDWORK	JCM	12/21
DESIGNED	RFH	04/20
DRAWN	JCM	12/21
CHECKED	RFH	12/21

DRAWING NUMBER
27516ASBSW

SHEET 5 OF 5 SHEETS

REVISION A



ISSUED

LOT CONNECTION COORDINATE TABLE		
MH No.	mN	mE
LOT 1368	818756.62	406185.86
LOT 1369	818738.70	406175.43
LOT 1370	818716.54	406164.74
LOT 1371	818692.88	406153.65
LOT 1372	818664.98	406147.47
LOT 1373	818682.06	406149.48
LOT 1380	818667.84	406045.86
LOT 1381	818668.78	406046.38
LOT 1382	818667.49	406124.55
LOT 1383	818675.98	406102.54
LOT 1384	818684.58	406090.89
LOT 1385	818696.62	406075.94
LOT 1386	818707.92	406061.96
LOT 1387	818718.77	406048.48
LOT 1388	818730.26	406035.91
LOT 1389	818744.97	406024.76
LOT 1390	818759.63	406017.35
LOT 1391	818775.91	406010.66
LOT 1392	818794.86	406002.95
LOT 1393	818808.81	405997.22
LOT 1394	818825.78	405990.40
LOT 1395	818841.01	405984.22
LOT 1396	818858.90	405976.92
LOT 1397	818874.65	405972.86
LOT 1398	818868.08	405989.15
LOT 1399	818848.56	405996.43
LOT 1400	818830.98	406003.60
LOT 1401	818813.11	406010.89
LOT 1402	818795.73	406017.95
LOT 1403	818777.29	406025.52
LOT 1404	818758.34	406033.58
LOT 1405	818739.67	406046.50
LOT 1406	818724.88	406063.42
LOT 1407	818731.42	406102.47
LOT 1408	818692.92	406134.67
LOT 1409	818742.25	406091.81
LOT 1410	818705.55	406140.04
LOT 1411	818732.30	406152.99

WATER MAIN FITTING COORDINATE TABLE		
COMPONENT NO.	mN	mE
FH1	405973.55	818875.85
GV1	405975.81	818866.67
SC1	818869.03	405985.07
FH2	818789.66	406005.84
GV2	818793.37	406004.87
SV1	818754.64	406020.35
GV3	818713.66	406057.34
SC2	818721.12	406062.70
FH3	818711.49	406059.56
GV4	818703.65	406069.83
SC3	818738.56	406097.66
FH4	818668.14	406131.77
FH5	818667.37	406129.90
SV2	818667.25	406131.40
SV3	818667.59	406131.72
SV4	818666.87	406131.69
GV5	818658.44	406131.36
SC4	818656.46	406142.91
SC5	818669.27	406046.79
TWFH1	406140.54	818668.32
TWSV1	406141.19	818666.62
TWSV2	406140.51	818666.64
TWFH2	406140.43	818664.72
SV7	818766.19	406172.92
GV8	818765.66	406172.71
FH8	818766.62	406173.23

LEGEND

- BOUNDARY
- EXISTING BOUNDARIES
- STAGE 18A BOUNDARY (COMPLETED JULY 2021)
- STAGE 18B BOUNDARY (COMPLETED DEC 2021)
- EXISTING TRUNK WATER MAIN
- EXISTING WATER
- NEW WATER
- TB TOBY
- FH FIRE HYDRANT
- SC SCOUR VALVE
- GV GATE VALVE
- SV SLUICE VALVE

	REVISION DETAILS	NAME	DATE
A	STAGE 18B DATA ADDED	JCM	12/21

NOTES:

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4. SURVEYED BY: J MACPHAIL, FEB 2020 - DEC 2021
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6. COUNCIL CONSENT REFERENCE RC8072
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8. ALL ELECTRONIC CAD DATA MUST BE READ IN CONJUNCTION WITH THESE NOTES
9. ALL Ø150Ø150 MAINS ARE uPVC PN12 UNLESS SHOWN OTHERWISE
10. ALL RIDER MAINS ARE 63mmOD PE100 SDR11
11. ALL PRIVATE SERVICE CONNECTIONS ARE 25mmOD PE100 SDR11 UNLESS SHOWN OTHERWISE
12. MINIMUM COVER ON PIPES ARE AS FOLLOWS:
    - Ø150Ø150 MAINS 750mm COVER
    - RIDER MAINS 600mm COVER IN BERMS, 750mm COVER IN TRAFFICKED AREAS
13. ALL RESIDENTIAL SERVICE TOBIES ARE ACCUFLO MANIFOLDS WITH DOUBLE CHECK VALVES
14. ALL HYDRANTS ARE TALL TYPE HYDRANTS
15. ALL Ø50Ø50 VALVES ARE TYPE AVK OR HAWLE EPOXY COATED DUCTILE IRON WITH A 2.07MPa RATING AND CONFORM TO AS2638:2011
16. ALL Ø150Ø150Ø150 VALVES HAVE FLANGED EPOXY COATED DUCTILE IRON WITH A 2.07MPa RATING AND CONFORM TO AS2638:2011
17. FIRE HYDRANTS HAVE YELLOW PAINTED COVERS WITH YELLOW PAINTED TRIANGLES AND BLUE CATS EYE ON ROAD AND YELLOW STRIP ON KERB
18. ACCUFLO MANIFOLDS ARE ALL APPROX 0.30m OFF LOT BOUNDARY
19. STAGE 18 IS ON THE "PORIRUA HIGH" PRESSURE ZONE

0 10 20 30 40 50m
SCALE BAR

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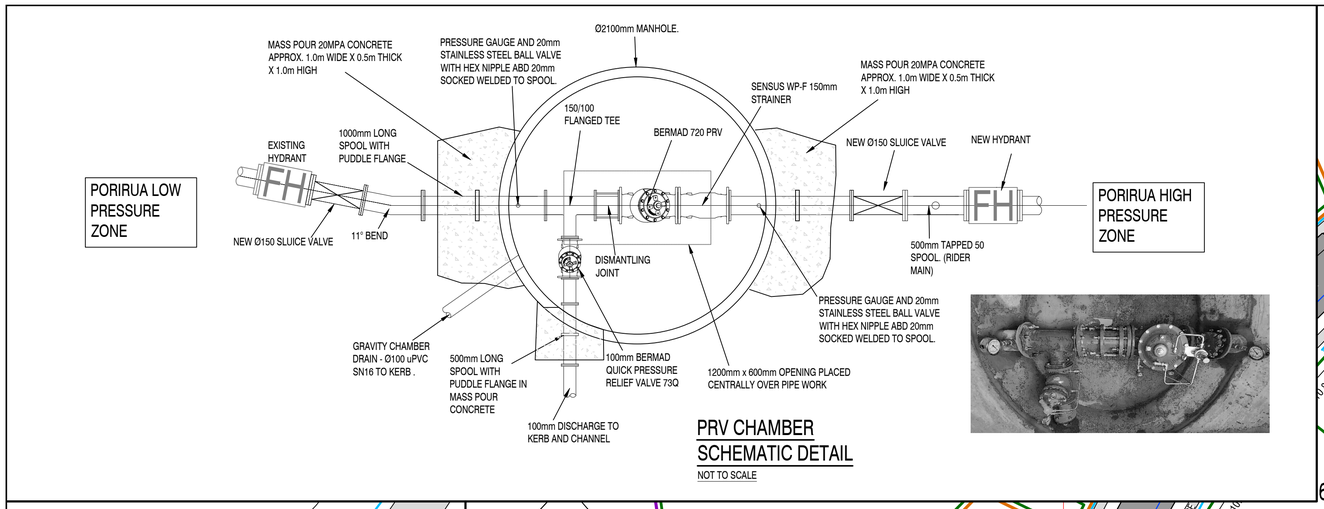
CIVIL WORKS
STAGES 18A & 18B

AS BUILT PLAN - WATER

SCALE	REDUCED SCALE
A1 - 1:500	A3 - 1:1000

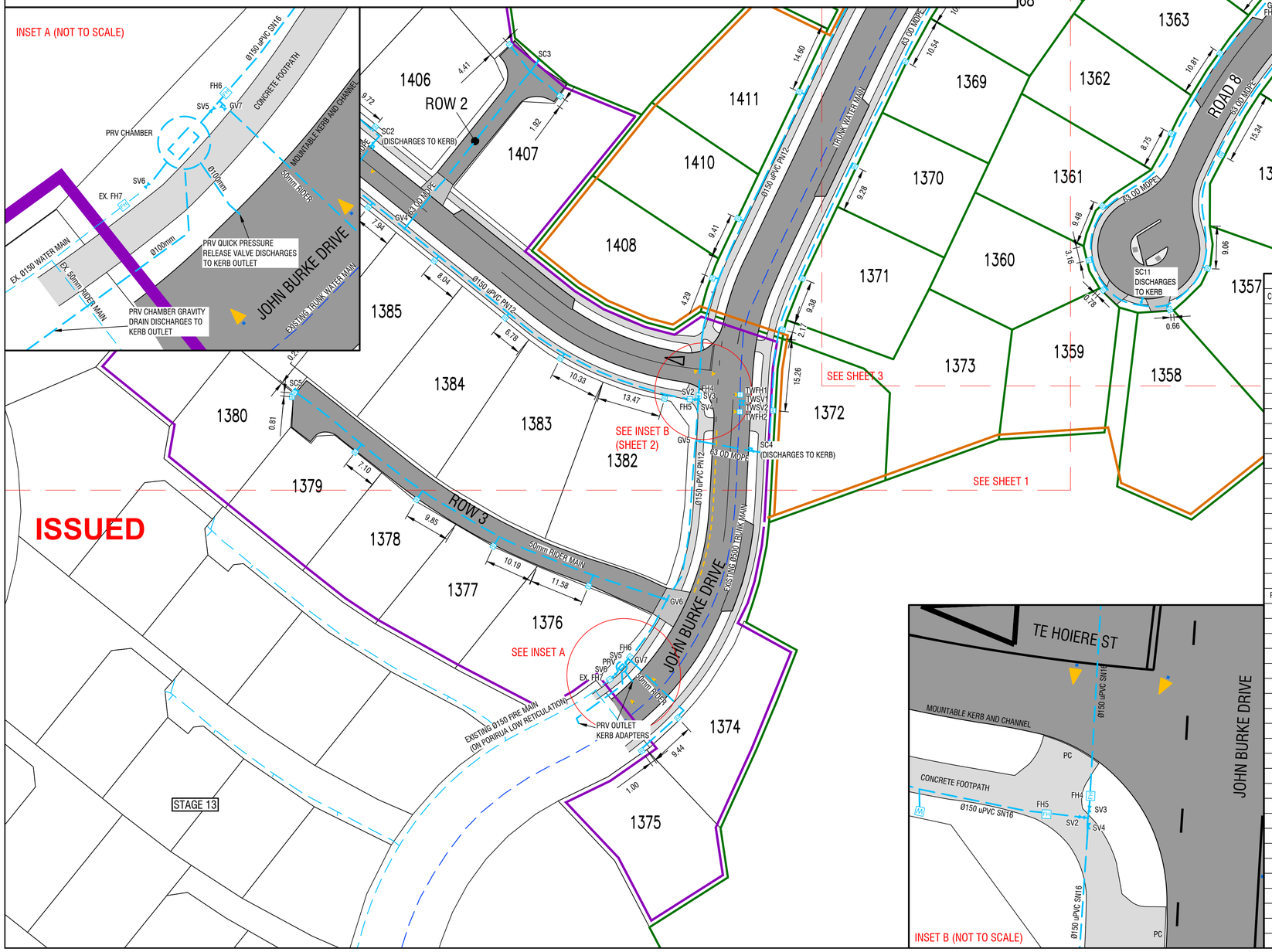
	NAME	DATE
FIELDWORK	JCM	12/21
DESIGNED	RFH	04/20
DRAWN	JCM	12/21
CHECKED	RFH	12/21

DRAWING NUMBER 27516ASBW
SHEET 1 OF 3 SHEETS
REVISION A



PRV CHAMBER SCHEMATIC DETAIL

NOT TO SCALE



LEGEND

- BOUNDARY
- EXISTING BOUNDARIES
- STAGE 18A BOUNDARY (COMPLETED JULY 2021)
- STAGE 18B BOUNDARY (COMPLETED DEC 2021)
- EXISTING TRUNK WATER MAIN
- EXISTING WATER
- NEW WATER
- TOBY
- FIRE HYDRANT
- SC SCOUR VALVE
- GV GATE VALVE
- SV SLUICE VALVE

REVISION DETAILS		NAME	DATE
A	STAGE 18B DATA ADDED	JCM	12/21

NOTES:

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10. ALL RIDER MAINS ARE 63mmOD PE100 SDR11
11. ALL PRIVATE SERVICE CONNECTIONS ARE 25mmOD PE100 SDR11 UNLESS SHOWN OTHERWISE
12. MINIMUM COVER ON PIPES ARE AS FOLLOWS:
    - Ø150Ø150 MAINS 750mm COVER
    - RIDER MAINS 600mm COVER IN BERMS, 750mm COVER IN TRAFFICKED AREAS
13. ALL RESIDENTIAL SERVICE TOBIES ARE ACCUFLO MANIFOLDS WITH DOUBLE CHECK VALVES
14. ALL HYDRANTS ARE TALL TYPE HYDRANTS
15. ALL Ø50Ø50 VALVES ARE TYPE AVK OR HAWLE EPOXY COATED DUCTILE IRON WITH A 2.07MPa RATING AND CONFORM TO AS2638:2011
16. ALL Ø150Ø150Ø150 VALVES HAVE FLANGED EPOXY COATED DUCTILE IRON WITH A 2.07MPa RATING AND CONFORM TO AS2638:2011
17. FIRE HYDRANTS HAVE YELLOW PAINTED COVERS WITH YELLOW PAINTED TRIANGLES AND BLUE CATS EYE ON ROAD AND YELLOW STRIP ON KERB
18. ACCUFLO MANIFOLDS ARE ALL APPROX 0.30m OFF LOT BOUNDARY
19. STAGE 18 IS ON THE "PORIRUA HIGH" PRESSURE ZONE

0 10 20 30 40 50m
SCALE BAR

LOT CONNECTION COORDINATE TABLE

MH No.	mN	mE
LOT 1353	818784.28	406274.10
LOT 1354	818766.35	406274.06
LOT 1355	818744.81	406260.05
LOT 1356	818718.98	406242.17
LOT 1357	818695.00	406239.26
LOT 1358	818686.31	406231.27
LOT 1359	818690.43	406217.23
LOT 1360	818696.71	406214.18
LOT 1361	818708.14	406217.08
LOT 1362	818723.48	406231.61
LOT 1363	818740.38	406241.92
LOT 1364	818760.88	406258.92
LOT 1365	818802.48	406238.21
LOT 1366	818789.73	406217.49
LOT 1367	818774.87	406200.88
LOT 1368	818756.62	406185.86
LOT 1369	818738.70	406175.43
LOT 1370	818716.54	406164.74
LOT 1371	818692.88	406153.65
LOT 1372	818664.98	406147.47
LOT 1373	818682.06	406149.48
LOT 1374	818600.06	406127.37
LOT 1375	818593.09	406119.71
LOT 1376	818627.93	406108.50
LOT 1377	818636.36	406088.39
LOT 1378	818646.17	406072.17
LOT 1379	818656.20	406059.20
LOT 1380	818667.84	406045.86
LOT 1381	818668.78	406046.38
LOT 1382	818667.49	406124.55
LOT 1383	818675.98	406102.54
LOT 1384	818684.58	406090.89
LOT 1385	818696.62	406075.94
LOT 1386	818707.92	406061.96
LOT 1387	818718.77	406048.48
LOT 1388	818730.26	406035.91
LOT 1389	818744.97	406024.76
LOT 1390	818759.63	406017.35
LOT 1391	818775.91	406010.66
LOT 1401	818813.11	406010.89
LOT 1402	818795.73	406017.95
LOT 1403	818777.29	406025.52
LOT 1404	818758.34	406033.58
LOT 1405	818739.67	406046.50
LOT 1406	818724.88	406063.42
LOT 1407	818731.42	406102.47
LOT 1408	818692.92	406134.67
LOT 1409	818742.25	406091.81
LOT 1410	818705.55	406140.04
LOT 1411	818732.30	406152.99
LOT 1412	818808.33	406214.19
LOT 1413	818820.35	406235.36
LOT 1414	818826.99	406252.06
LOT 1415	818833.39	406269.77
LOT 1416	818840.36	406288.51
LOT 1417	818846.98	406306.61
LOT 1418	818867.81	406330.85

WATER MAIN FITTING COORDINATE TABLE

COMPONENT NO.	mN	mE
GV2	818793.37	406004.87
SV1	818754.64	406020.35
GV3	818713.66	406057.34
SC2	818721.12	406062.70
FH3	818711.49	406059.56
GV4	818703.65	406069.83
SC3	818738.56	406097.66
FH4	818668.14	406131.77
FH5	818667.37	406129.90
SV2	818667.25	406131.40
SV3	818667.59	406131.72
SV4	818666.87	406131.69
GV5	818658.44	406131.36
SC4	818656.46	406142.91
GV6	818625.14	406124.79
SC5	818669.27	406046.79
FH6	818612.92	406117.25
GV7	818612.29	406117.13
SV5	818612.22	406116.69
PRV CHAMBER	818610.83	406115.47
SV6	818609.01	406113.93
EX. FH7	818608.17	406112.94
TWFH1	406140.54	818668.32
TWSV1	406141.19	818666.62
TWSV2	406140.51	818666.64
TWFH2	406140.43	818664.72
SV7	818766.19	406172.92
GV8	818765.66	406172.71
FH8	818766.62	406173.23
SV8	818824.93	406249.86
SV9	818824.71	406250.29
SV10	818825.17	406250.51
FH9	818825.32	406251.05
GV9	818831.30	406268.11
SC6	818817.05	406272.87
SC9	818809.43	406251.59
GV12	818809.86	406252.49
GV13	818783.44	406263.58
SC10	818787.02	406270.74
FH12	818753.09	406253.64
GV14	818753.82	406254.49
GV15	818753.34	406254.09
SC11	818688.27	406225.41

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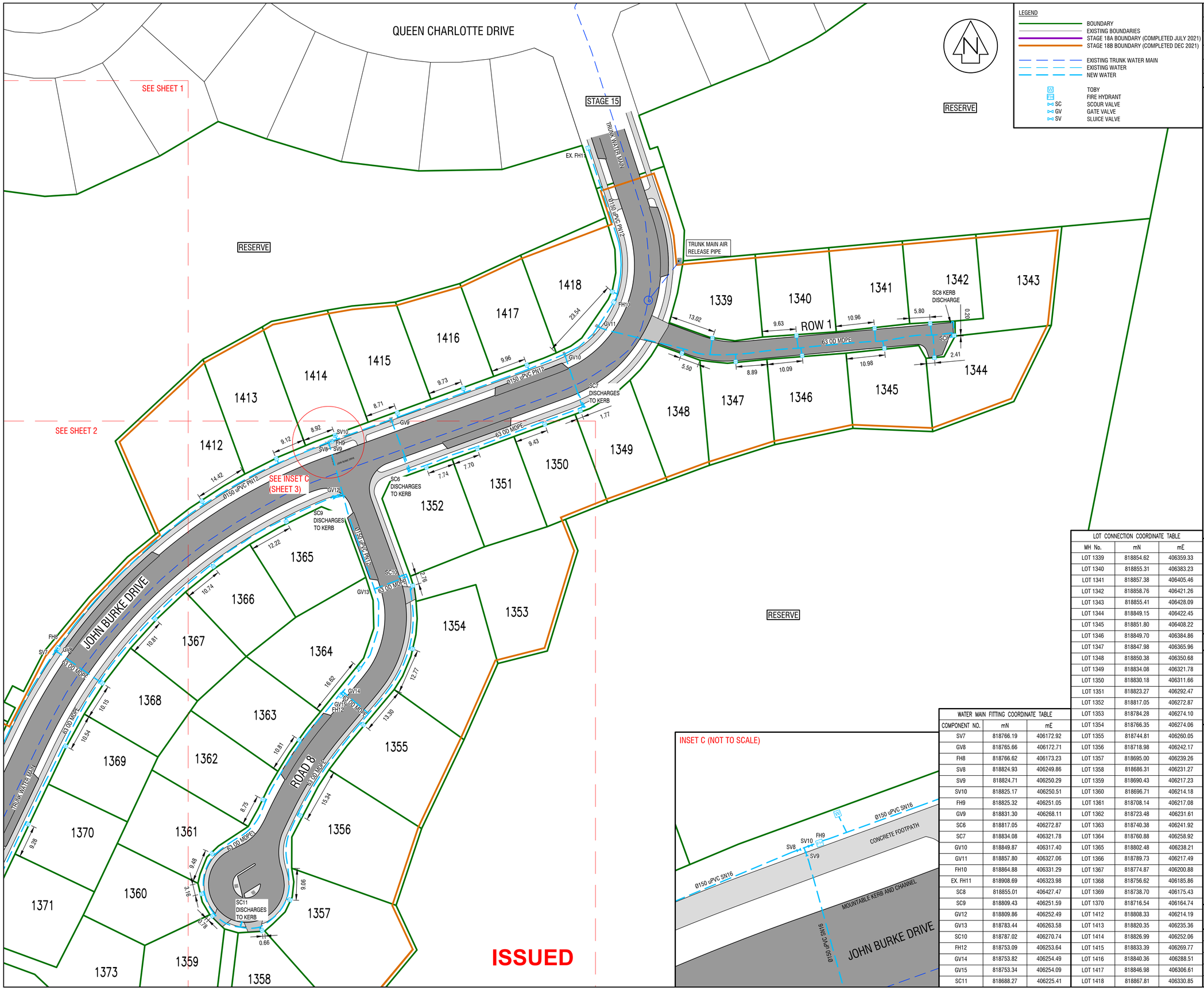
PROJECT
AOTEA SUBDIVISION
CIVIL WORKS
STAGES 18A & 18B

AS BUILT PLAN - WATER

SCALE A1 - 1:500
REDUCED SCALE A3 - 1:1000

	NAME	DATE
FIELDWORK	JCM	12/21
DESIGNED	RFH	04/20
DRAWN	JCM	12/21
CHECKED	RFH	12/21

DRAWING NUMBER 27516ASBW
SHEET 2 OF 3 SHEETS
REVISION A



LEGEND

- BOUNDARY
- EXISTING BOUNDARIES
- STAGE 18A BOUNDARY (COMPLETED JULY 2021)
- STAGE 18B BOUNDARY (COMPLETED DEC 2021)
- EXISTING TRUNK WATER MAIN
- EXISTING WATER
- NEW WATER
- TOBY
- FIRE HYDRANT
- SC SCOUR VALVE
- GV GATE VALVE
- SV SLUICE VALVE

	REVISION DETAILS	NAME	DATE
A	STAGE 18B DATA ADDED	JCM	12/21

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5. ALL DIMENSIONS ARE SHOWN IN METRES
6. COUNCIL CONSENT REFERENCE RC8072
7. ALL WORKS COMPLETED BY MCLATCHIE AND SHARP LTD, JEFF MCLATCHIE, REGISTRATION #12333, FEB 2020 - DEC 2021
8. ALL ELECTRONIC CAD DATA MUST BE READ IN CONJUNCTION WITH THESE NOTES
9. ALL Ø150Ø150 MAINS ARE uPVC PN12 UNLESS SHOWN OTHERWISE
10. ALL RIDER MAINS ARE 63mmOD PE100 SDR11
11. ALL PRIVATE SERVICE CONNECTIONS ARE 25mmOD PE100 SDR11 UNLESS SHOWN OTHERWISE
12. MINIMUM COVER ON PIPES ARE AS FOLLOWS:
    - Ø150Ø150 MAINS 750mm COVER
    - RIDER MAINS 600mm COVER IN BERMS, 750mm COVER IN TRAFFICKED AREAS
13. ALL RESIDENTIAL SERVICE TOBIES ARE ACCUFLO MANIFOLDS WITH DOUBLE CHECK VALVES
14. ALL HYDRANTS ARE TALL TYPE HYDRANTS
15. ALL Ø50Ø50 VALVES ARE TYPE AVK OR HAWLE EPOXY COATED DUCTILE IRON WITH A 2.07MPa RATING AND CONFORM TO AS2638:2011
16. ALL Ø150Ø150Ø150 VALVES HAVE FLANGED EPOXY COATED DUCTILE IRON WITH A 2.07MPa RATING AND CONFORM TO AS2638:2011
17. FIRE HYDRANTS HAVE YELLOW PAINTED COVERS WITH YELLOW PAINTED TRIANGLES AND BLUE CATS EYE ON ROAD AND YELLOW STRIP ON KERB
18. ACCUFLO MANIFOLDS ARE ALL APPROX 0.30m OFF LOT BOUNDARY
19. STAGE 18 IS ON THE "PORIRUA HIGH" PRESSURE ZONE

0 10 20 30 40 50m
SCALE BAR

INSET C (NOT TO SCALE)

LOT CONNECTION COORDINATE TABLE		
MH No.	mN	mE
LOT 1339	818854.62	406359.33
LOT 1340	818855.31	406383.23
LOT 1341	818857.38	406405.46
LOT 1342	818858.76	406421.26
LOT 1343	818855.41	406428.09
LOT 1344	818849.15	406422.45
LOT 1345	818851.80	406408.22
LOT 1346	818849.70	406384.86
LOT 1347	818847.98	406365.96
LOT 1348	818850.38	406350.68
LOT 1349	818834.08	406321.78
LOT 1350	818830.18	406311.66
LOT 1351	818823.27	406292.47
LOT 1352	818817.05	406272.87
LOT 1353	818784.28	406274.10
LOT 1354	818766.35	406274.06
LOT 1355	818744.81	406260.05
LOT 1356	818718.98	406242.17
LOT 1357	818695.00	406239.26
LOT 1358	818686.31	406231.27
LOT 1359	818690.43	406217.23
LOT 1360	818696.71	406214.18
LOT 1361	818708.14	406217.08
LOT 1362	818723.48	406231.61
LOT 1363	818740.38	406241.92
LOT 1364	818760.88	406258.92
LOT 1365	818802.48	406238.21
LOT 1366	818789.73	406217.49
LOT 1367	818774.87	406200.88
LOT 1368	818756.62	406185.86
LOT 1369	818738.70	406175.43
LOT 1370	818716.54	406164.74
LOT 1412	818808.33	406214.19
LOT 1413	818820.35	406235.36
LOT 1414	818826.99	406252.06
LOT 1415	818833.39	406269.77
LOT 1416	818840.36	406288.51
LOT 1417	818846.98	406306.61
LOT 1418	818867.81	406330.85

WATER MAIN FITTING COORDINATE TABLE		
COMPONENT NO.	mN	mE
SV7	818766.19	406172.92
GV8	818765.66	406172.71
FH8	818766.62	406173.23
SV8	818824.93	406249.86
SV9	818824.71	406250.29
SV10	818825.17	406250.51
FH9	818825.32	406251.05
GV9	818831.30	406268.11
SC6	818817.05	406272.87
SC7	818834.08	406321.78
GV10	818849.87	406317.40
GV11	818857.80	406327.06
FH10	818864.88	406331.29
EX. FH11	818908.69	406323.98
SC8	818855.01	406427.47
SC9	818809.43	406251.59
GV12	818809.86	406252.49
GV13	818783.44	406263.58
SC10	818787.02	406270.74
FH12	818753.09	406253.64
GV14	818753.82	406254.49
GV15	818753.34	406254.09
SC11	818688.27	406225.41

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PROJECT
AOTEA SUBDIVISION
CIVIL WORKS
STAGES 18A & 18B

AS BUILT PLAN - WATER

SCALE A1 - 1:500
REDUCED SCALE A3 - 1:1000

	NAME	DATE
FIELDWORK	JCM	12/21
DESIGNED	RFH	04/20
DRAWN	JCM	12/21
CHECKED	RFH	12/21

DRAWING NUMBER
27516ASBW
SHEET 3 OF 3 SHEETS
REVISION A