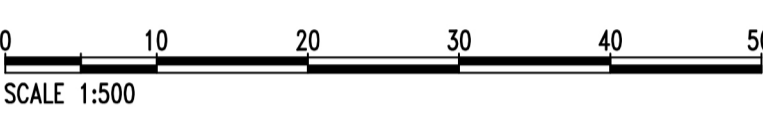


- LEGEND:**
- BOUNDARY
 - BOUNDARY (FUTURE STAGE)
 - EXISTING CONTOUR (1m)
 - FINISHED CONTOUR MAJOR (5m)
 - FINISHED CONTOUR MINOR (1m)
 - SUMP
 - ▭ INDENTED PARKING BAY
 - ☀ NEW STREETLIGHT
 - SIGN POST
 - ⊙ BERM TREE
 - ⊙ PC
 - ⊙ VC
 - ⊙ BLUE CATS EYE
 - ⊙ LEVEL ON TOP OF KERB

- NOTES:**
1. ALL LEVELS ARE IN TERMS OF MEAN SEA LEVEL WELLINGTON DATUM 1953.
 2. COORDINATES ARE IN TERMS OF NZGD 2000, WELLINGTON CIRCUIT.
 3. CONTOURS ARE SHOWN AT 1m INTERVALS.
 4. LEVELS ARE TOP OF KERB.
 5. ALL ROAD SUMPS TO PCC STANDARDS.
 6. ROAD PAVEMENT - MIN 30mm ASPHALTIC CONCRETE OVER 120mm AP40 BASECOURSE OVER MINIMUM 150mm SUBBASE
 7. ALL STREETLIGHTS ARE WINDSOR STRAND B 27W LUMINAIRE MOUNTED ON A 6.5m MH ECARMAX B POLE WITH 1.0m ROLLOVER OUTREACH ARM.
 8. ALL TREES ARE POHUTUKAWA MAORI PRINCESS IN 1.8m x 1.8m TIMBER PLANTER BOXES UNLESS SPECIFIED OTHERWISE.
 9. ALL HOLD LINES ARE 300mm WIDE WHITE CONTINUOUS, ALL CONTINUITY LINES ARE 100mm WIDE WHITE DASHED, ALL CENTRELINES ARE 150mm WIDE WHITE CONTINUOUS UNLESS SPECIFIED OTHERWISE.



AMENDMENT	NAME	DATE
A	ROAD MARKING ADDED	KML 08/15
B	STAGE 12B DATA ADDED	KML 11/15

SCALE 1:500 (A3 1:1000) SIZE A1

FIELDWORK	NAME	DATE	DRAWING NUMBER
DESIGNED	KDG	03/15	27512ASB R
DRAWN	KML	07/15	SHEET 1 OF 1 SHEETS
CHECKED	KDG	07/15	REVISION B

Cuttriss
Land Surveyors, Engineers & Planners

Cuttriss Consultants Limited
Hutt Valley, Wellington, Kapiti Coast

Lower Hutt Branch - Level 3 Crest House, 92 Queens Drive, Lower Hutt
Postal Address - PO Box 30 429, Lower Hutt 5040
Telephone (04) 539 5245 Fax (04) 539 5249 Email hutt@cuttriss.co.nz

Paraparaumu Branch - 38 Kapiti Road, Paraparaumu
Postal Address - PO Box 396, Paraparaumu 5254
Telephone (04) 934 5400 Fax (04) 934 5400 Email kapiti@cuttriss.co.nz

JOB

AOTEA SUBDIVISION CIVIL WORKS - STAGE 12A AND STAGE 12 B ASBUILT ROADING

CLIENT

CARRUS LIMITED

LEGEND:

- BOUNDARY
- BOUNDARY (FUTURE STAGE)
- EXISTING SEWER
- NEW SEWER
- STORMWATER SUMP
- LOT NUMBER
- DEPTH TO INVERT OF PRIVATE CONNECTION

NOTES:

- ALL LEVELS ARE IN TERMS OF MEAN SEA LEVEL WELLINGTON DATUM 1953.
- COORDINATES ARE IN TERMS OF NZGD 2000, WELLINGTON CIRCUIT.
- MARKER STAKES PLACED AT THE TERMINATION POINT OF ALL PRIVATE SEWER CONNECTIONS.
- POSITIONS OF PRIVATE CONNECTIONS BASED ON INFORMATION PROVIDED BY CONTRACTOR.
- ALL DIMENSIONS SHOWN ARE HORIZONTAL IN METRES.
- 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.

MANHOLES:

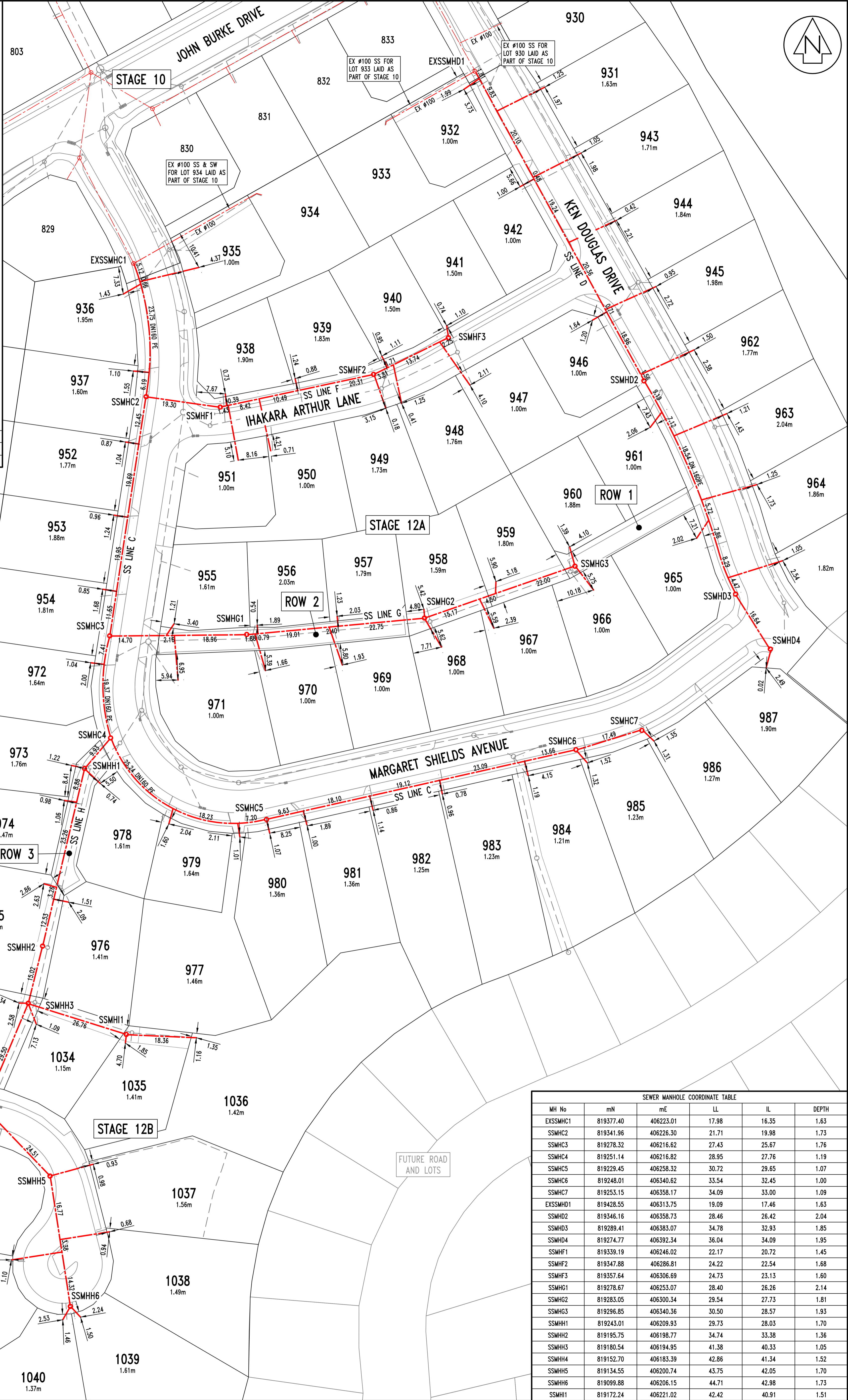
- ALL MANHOLES ARE PRECAST CONCRETE WITH WEBFORGE HEAVY DUTY CLASS D HINGED LID.
- ALL MANHOLES ARE #1050 UNLESS SHOWN OTHERWISE.

PIPE WORK:

- ALL SEWER MAINS ARE #150 uPVC SN16 UNLESS SHOWN AS DN160 PE.
- ALL PRIVATE LATERALS ARE #100 uPVC SN16.

SCALE 1:500

AMENDMENT	NAME	DATE
A	STAGE 12B DATA ADDED	KML 11/15



MH No	mN	mE	LL	IL	DEPTH
EXSSMHC1	819377.40	406223.01	17.98	16.35	1.63
SSMHC2	819341.96	406226.30	21.71	19.98	1.73
SSMHC3	819278.32	406216.62	27.43	25.67	1.76
SSMHC4	819251.14	406216.82	28.95	27.76	1.19
SSMHC5	819229.45	406258.32	30.72	29.65	1.07
SSMHC6	819248.01	406340.62	33.54	32.45	1.00
SSMHC7	819253.15	406358.17	34.09	33.00	1.09
EXSSMHD1	819428.55	406313.75	19.09	17.46	1.63
SSMHD2	819346.16	406358.73	28.46	26.42	2.04
SSMHD3	819289.41	406383.07	34.78	32.93	1.85
SSMHD4	819274.77	406392.34	36.04	34.09	1.95
SSMHF1	819339.19	406246.02	22.17	20.72	1.45
SSMHF2	819347.88	406286.81	24.22	22.54	1.68
SSMHF3	819357.64	406306.69	24.73	23.13	1.60
SSMHG1	819278.67	406253.07	28.40	26.26	2.14
SSMHG2	819283.05	406300.34	29.54	27.73	1.81
SSMHG3	819296.85	406340.36	30.50	28.57	1.93
SSMHH1	819243.01	406209.93	29.73	28.03	1.70
SSMHH2	819195.75	406198.77	34.74	33.38	1.36
SSMHH3	819180.54	406194.95	41.38	40.33	1.05
SSMHH4	819152.70	406183.39	42.86	41.34	1.52
SSMHH5	819134.55	406200.74	43.75	42.05	1.70
SSMHH6	819099.88	406206.15	44.71	42.98	1.73
SSMHH1	819172.24	406221.02	42.42	40.91	1.51

Cuttriss
Land Surveyors, Engineers & Planners

Cuttriss Consultants Limited
Hutt Valley, Wellington, Kapiti Coast

Lower Hutt Branch - Level 3 Crest House, 92 Queens Drive, Lower Hutt
Postal Address - PO Box 30 429, Lower Hutt 5040
Telephone (04) 939 9245 Fax (04) 939 9249 Email hutt@cuttriss.co.nz

Paraparaumu Branch - 33 Kapiti Road, Paraparaumu
Postal Address - PO Box 398, Paraparaumu 5254
Telephone (04) 934 5420 Fax (04) 934 5420 Email kapiti@cuttriss.co.nz

JOB

AOTEA SUBDIVISION CIVIL WORKS – STAGE 12A AND STAGE 12B ASBUILT SEWER CARRUS LIMITED

CLIENT

Copyright of this drawing is vested in Cuttriss Consultants Limited

SCALE 1:500 (A3 1:1000) SIZE A1

FIELDWORK	NAME	DATE	DRAWING NUMBER
DESIGNED	KDG	03/15	27512ASB SS
DRAWN	KML	07/15	SHEET 1 OF 1 SHEETS
CHECKED	KDG	07/15	REVISION A

LEGEND:

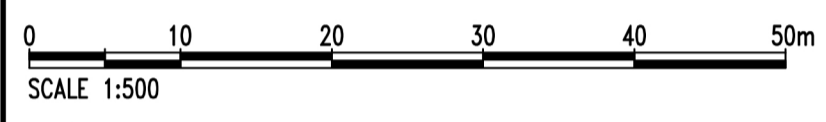
- BOUNDARY
- BOUNDARY (FUTURE)
- SEWER
- EXISTING STORMWATER
- PROPOSED STORMWATER
- KORB OUTLET
- SUMP

965
1.65m
DEPTH TO INVERT OF PRIVATE CONNECTION

- NOTES:**
- ALL LEVELS ARE IN TERMS OF MEAN SEA LEVEL WELLINGTON DATUM 1953.
 - COORDINATES ARE IN TERMS OF NZGD 2000, WELLINGTON CIRCUIT.
 - STAKES ARE PLACED AT THE TERMINATION POINT OF ALL PRIVATE STORMWATER CONNECTIONS.
 - ALL ROAD SUMPS ARE TO PCC STANDARDS.
 - PROPRIETARY GALVANISED DUCTILE IRON KERB ADAPTERS USED FOR SW CONNECTIONS TO KERB.
 - POSITIONS OF PRIVATE CONNECTIONS BASED ON INFORMATION PROVIDED BY CONTRACTOR.
 - ALL DIMENSIONS SHOWN ARE HORIZONTAL IN METRES.
 - 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.

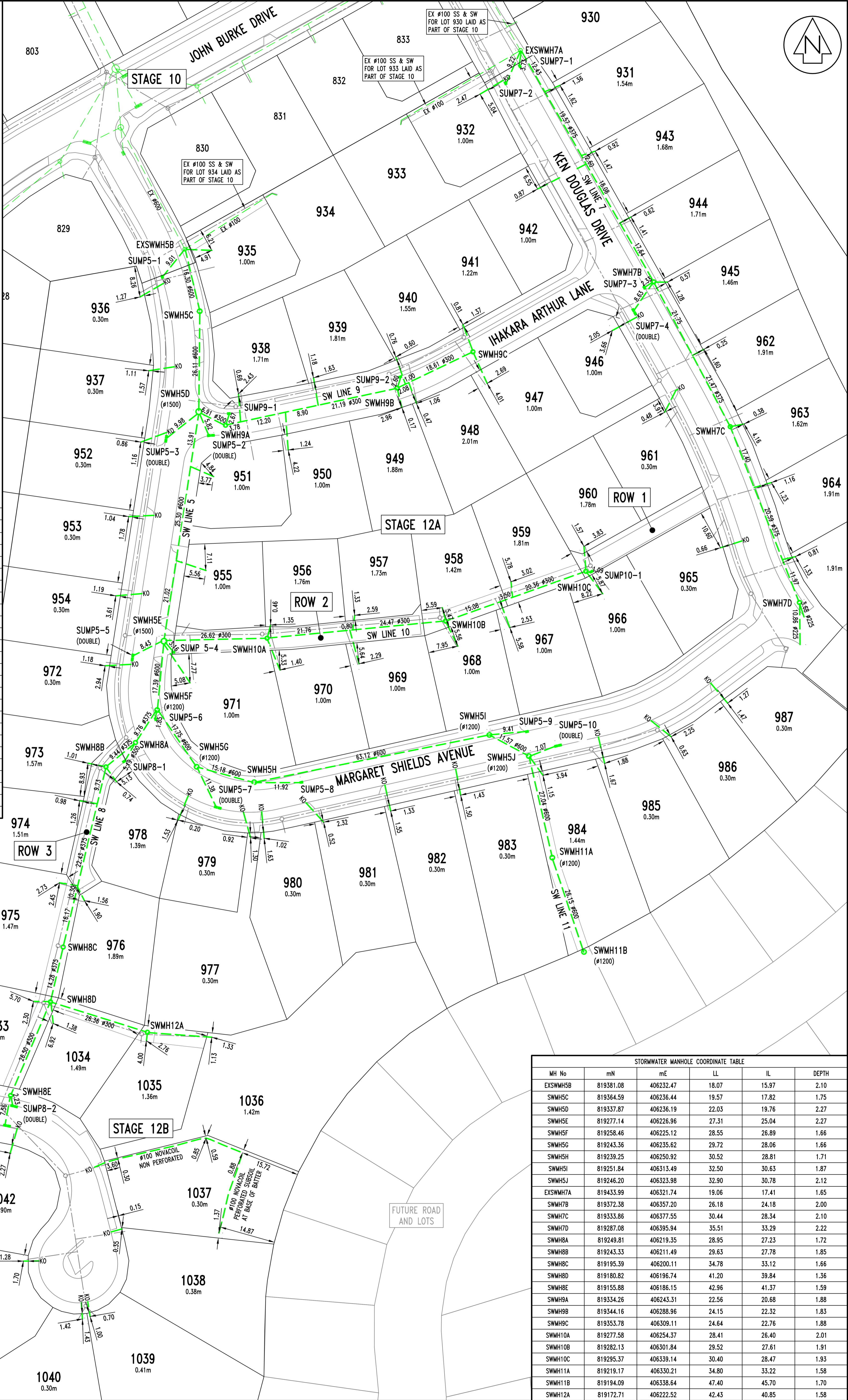
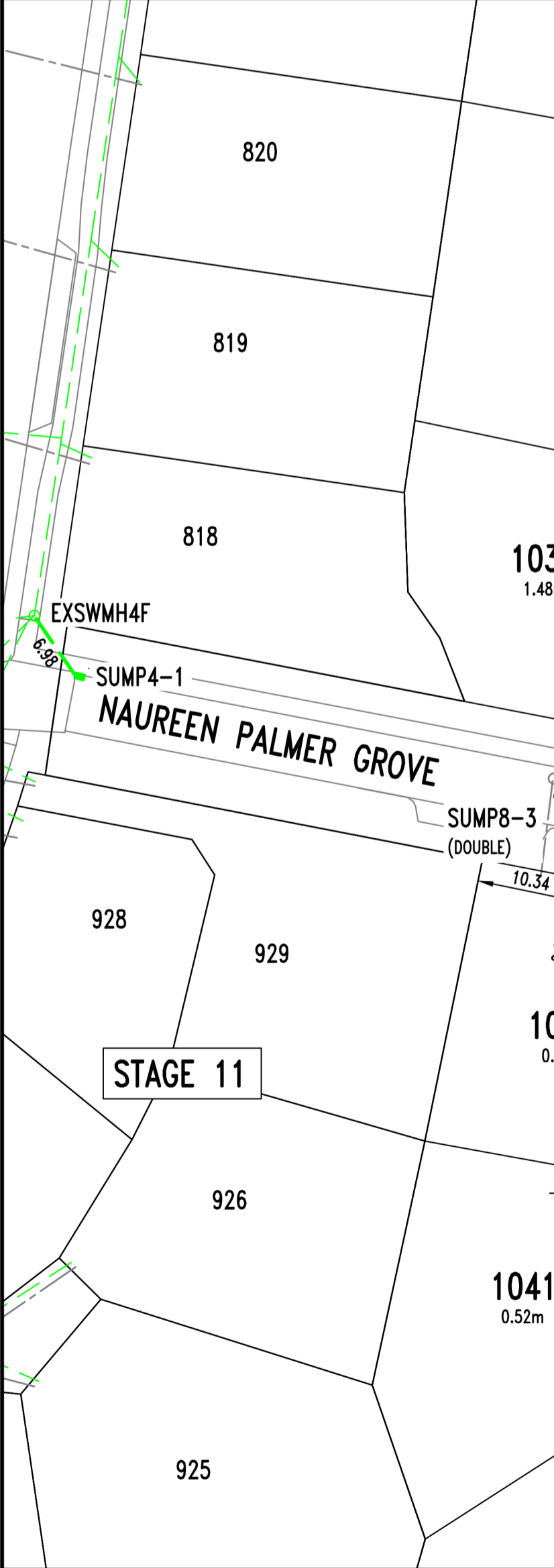
- MANHOLES:**
- ALL MANHOLES ARE PRECAST CONCRETE WITH WEBFORGE HEAVY DUTY CLASS D HINGED LID.
 - ALL MANHOLES ARE #1050 UNLESS SHOWN OTHERWISE.

- PIPE WORK:**
- ALL PRIVATE LATERALS ARE #100 uPVC SN16.
 - ALL PIPE #225-#375 BOSS PIPE.
 - ALL PIPE >#375 RCRRJ CLASS 2.
 - ALL SINGLE SUMP LEADS #225 UNLESS SHOWN OTHERWISE.
 - ALL DOUBLE SUMP LEADS #300 UNLESS SHOWN OTHERWISE.



AMENDMENT	NAME	DATE
A	STAGE 12B DATA ADDED	KML 11/15

SUMP No	mN	mE	LL
SUMP4-1	819162.76	406136.68	18.25
SUMP5-1	819373.72	406226.47	18.25
SUMP5-2	819331.49	406238.87	22.47
SUMP5-3	819331.15	406227.58	22.48
SUMP5-4	819273.84	406229.39	27.56
SUMP5-5	819272.97	406218.65	27.52
SUMP5-6	819256.05	406224.70	28.62
SUMP5-7	819232.65	406240.72	29.94
SUMP5-8	819239.21	406263.47	30.70
SUMP5-9	819252.73	406323.47	32.71
SUMP5-10	819248.86	406331.23	33.00
SUMP7-1	819429.80	406321.57	19.16
SUMP7-2	819425.26	406317.77	19.40
SUMP7-3	819370.86	406354.71	25.94
SUMP7-4	819364.87	406351.76	26.27
SUMP8-1	819244.77	406216.31	29.21
SUMP8-2	819153.16	406186.55	42.84
SUMP8-3	819147.94	406184.64	42.88
SUMP9-1	819337.34	406244.19	22.42
SUMP9-2	819347.11	406289.76	24.11
SUMP10-1	819295.31	406340.67	30.39



MH No	mN	mE	LL	IL	DEPTH
EXSWMH5B	819381.08	406232.47	18.07	15.97	2.10
SWMH5C	819364.59	406236.44	19.57	17.82	1.75
SWMH5D	819337.87	406236.19	22.03	19.76	2.27
SWMH5E	819277.14	406226.96	27.31	25.04	2.27
SWMH5F	819258.46	406225.12	28.55	26.89	1.66
SWMH5G	819243.36	406235.62	29.72	28.06	1.66
SWMH5H	819239.25	406250.92	30.52	28.81	1.71
SWMH5I	819251.84	406313.49	32.50	30.63	1.87
SWMH5J	819246.20	406323.98	32.90	30.78	2.12
EXSWMH7A	819433.99	406321.74	19.06	17.41	1.65
SWMH7B	819372.38	406357.20	26.18	24.18	2.00
SWMH7C	819333.86	406377.55	30.44	28.34	2.10
SWMH7D	819287.08	406395.94	35.51	33.29	2.22
SWMH8A	819249.81	406219.35	28.95	27.23	1.72
SWMH8B	819243.33	406211.49	29.63	27.78	1.85
SWMH8C	819195.39	406200.11	34.78	33.12	1.66
SWMH8D	819180.82	406196.74	41.20	39.84	1.36
SWMH8E	819155.88	406186.15	42.96	41.37	1.59
SWMH9A	819334.26	406243.31	22.56	20.68	1.88
SWMH9B	819344.16	406288.96	24.15	22.32	1.83
SWMH9C	819353.78	406309.11	24.64	22.76	1.88
SWMH10A	819277.58	406254.37	28.41	26.40	2.01
SWMH10B	819282.13	406301.84	29.52	27.61	1.91
SWMH10C	819295.37	406339.14	30.40	28.47	1.93
SWMH11A	819219.17	406330.21	34.80	33.22	1.58
SWMH11B	819194.09	406338.64	47.40	45.70	1.70
SWMH12A	819172.71	406222.52	42.43	40.85	1.58

Cuttriss
Land Surveyors, Engineers & Planners

Lower Hutt Branch - Level 3 Crest House, 92 Queens Drive, Lower Hutt
Postal Address - PO Box 30 429, Lower Hutt 5240
Telephone (04) 539 5245 Fax (04) 539 5246 Email kapt@cuttriss.co.nz

Paraparaumu Branch - 28 Kapiti Road, Paraparaumu
Postal Address - PO Box 396, Paraparaumu 5254
Telephone (04) 934 5429 Fax (04) 934 5420 Email kapt@cuttriss.co.nz

Cuttriss Consultants Limited
Hutt Valley, Wellington, Kapiti Coast

JOB

CLIENT

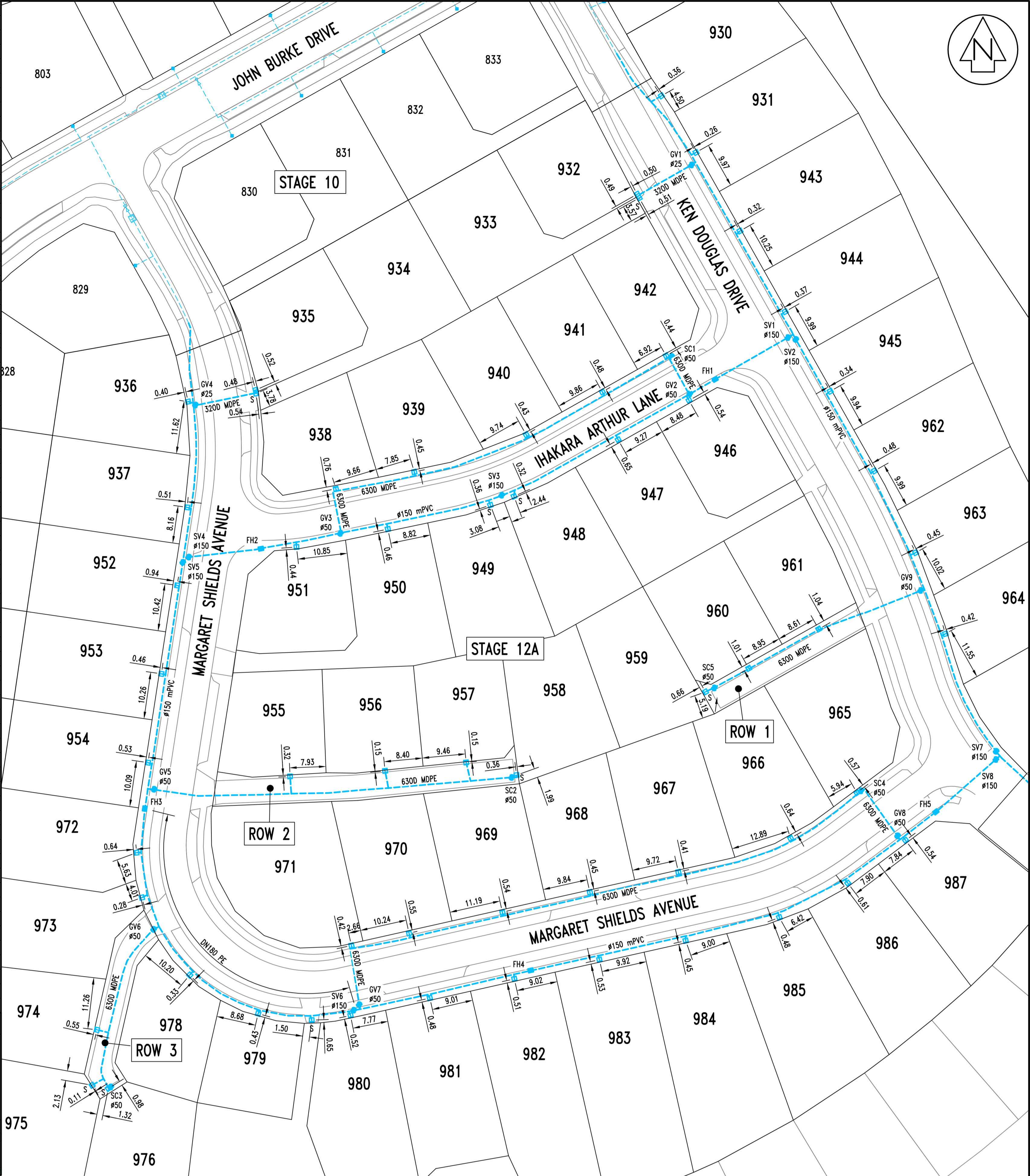
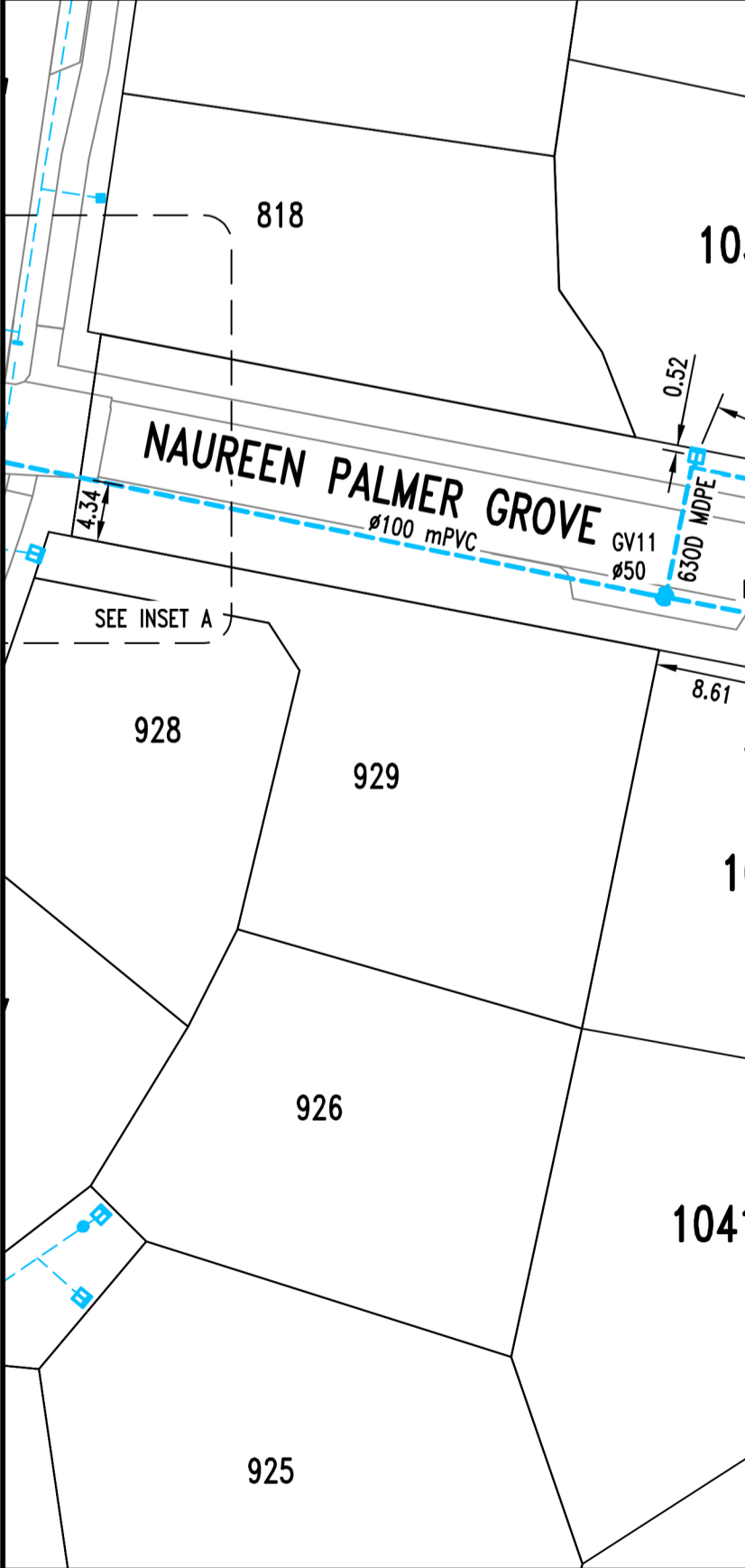
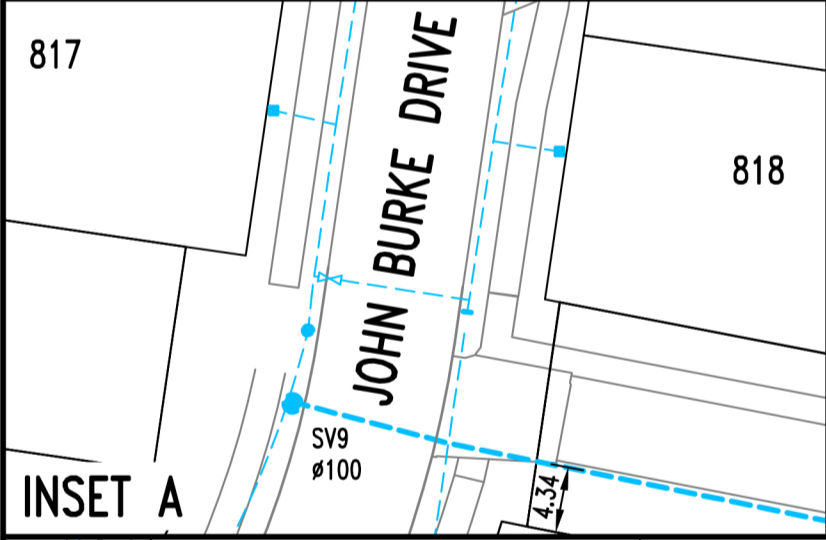
AOTEA
SUBDIVISION CIVIL WORKS - STAGE 12A AND STAGE 12B
ASBUILT STORMWATER
CARRUS LIMITED

Copyright of this drawing is vested in Cuttriss Consultants Limited

SCALE 1:500 (A3 1:1000) SIZE A1

FIELDWORK	NAME	DATE	DRAWING NUMBER
DESIGNED	KDG	03/15	27512ASB SW
DRAWN	KML	07/15	SHEET 1 OF 1 SHEETS
CHECKED	KDG	07/15	REVISION A

LOT No.	mN	mE
LOT 930	819428.97	406327.42
LOT 931	819416.56	406334.99
LOT 932	819407.40	406322.10
LOT 933	819406.59	406322.55
LOT 934	819363.75	406238.65
LOT 935	819364.51	406238.55
LOT 936	819361.95	406223.75
LOT 937	819338.79	406223.54
LOT 938	819342.84	406256.12
LOT 939	819346.57	406273.29
LOT 940	819354.76	406297.78
LOT 941	819364.11	406314.47
LOT 942	819372.03	406328.44
LOT 943	819399.35	406344.62
LOT 944	819381.68	406354.53
LOT 945	819364.23	406364.40
LOT 946	819362.21	406333.47
LOT 947	819353.59	406317.95
LOT 948	819341.21	406295.13
LOT 949	819339.28	406289.96
LOT 950	819334.03	406267.51
LOT 951	819330.11	406247.49
LOT 952	819321.69	406221.36
LOT 953	819302.32	406217.89
LOT 954	819282.87	406214.96
LOT 955	819279.85	406246.07
LOT 956	819281.07	406266.88
LOT 957	819282.90	406284.65
LOT 958	819280.12	406295.70
LOT 959	819298.36	406337.07
LOT 960	819303.52	406346.55
LOT 961	819312.12	406361.86
LOT 962	819346.78	406374.08
LOT 963	819328.87	406383.10
LOT 964	819311.09	406389.63
LOT 965	819276.29	406370.23
LOT 966	819266.33	406355.69
LOT 967	819258.90	406331.13
LOT 968	819254.51	406311.74
LOT 969	819250.11	406292.58
LOT 970	819245.50	406272.14
LOT 971	819242.80	406259.53
LOT 972	819263.12	406212.46
LOT 973	819253.29	406213.63
LOT 974	819224.32	406203.78
LOT 975	819212.18	406202.71
LOT 976	819211.47	406206.28
LOT 977	819226.45	406250.82
LOT 978	819236.31	406224.09
LOT 979	819227.87	406239.09
LOT 980	819227.45	406259.33
LOT 981	819231.28	406276.69
LOT 982	819235.47	406295.20
LOT 983	819239.68	406313.84
LOT 984	819243.84	406332.73
LOT 985	819248.94	406353.25
LOT 986	819256.44	406368.27
LOT 987	819265.81	406380.91
LOT 1033	819158.94	406179.08
LOT 1034	819154.07	406196.79
LOT 1035	819146.81	406206.32
LOT 1036	819140.02	406210.01
LOT 1037	819129.11	406213.04
LOT 1038	819109.38	406216.90
LOT 1039	819100.98	406212.29
LOT 1040	819098.64	406200.78
LOT 1041	819105.41	406192.64
LOT 1042	819143.69	406184.91



LEGEND:

- BOUNDARY
- - - FUTURE BOUNDARY
- EXISTING WATER
- NEW WATER
- FIRE HYDRANT
- VALVE
- ACUFLO MANIFOLD (PLASTIC COVER)
- ACUFLO MANIFOLD - STEEL COVER

NOTES:

- COORDINATES ARE IN TERMS OF NZGD 2000, WELLINGTON CIRCUIT.
- ALL #150 AND #100 MAINS ARE mPVC PN12 UNLESS SHOWN OTHERWISE.
- ALL RIDERS MAINS ARE 6300 MDPE PN12.
- ALL PRIVATE SERVICE CONNECTIONS ARE 2500 MDPE PN12 UNLESS SHOWN OTHERWISE.
- MINIMUM COVER ON PIPES IS AS FOLLOWS:
 - MAINS #100 AND GREATER 750mm COVER.
 - RIDER MAINS 600mm COVER IN BERMS AND 750mm COVER IN TRAFFIC'D AREAS.
 - SERVICES PIPES 450mm COVER.
- ALL RESIDENTIAL SERVICE TOBIES ARE ACUFLO MANIFOLDS WITH DOUBLE CHECK VALVES.
- ALL HYDRANTS ARE TALL TYPE HYDRANTS.
- ALL #50 VALVES ARE TYPE AVK OR HAWLE EPOXY COATED DUCTILE IRON WITH A 2.07MPa RATING AND CONFORM TO AS2638:2011.
- ALL #100 OR GREATER VALVES HAVE FLANGED EPOXY COATED DUCTILE IRON WITH A 2.07MPa RATING AND CONFORM TO AS2638:2011.
- #150, #100 AND #50 VALVES HAVE CAST IRON COVERS PAINTED WHITE WITH A MINIMUM OPENING OF 200mm SQUARE. VALVES ARE MARKED WITH A 'V' ETCHED IN KERB.
- FIRE HYDRANTS HAVE YELLOW PAINTED COVERS WITH YELLOW PAINTED TRIANGLES AND BLUE CATS EYE ON ROAD.

0 10 20 30 40 50m
SCALE 1:500

AMENDMENT		NAME	DATE
A	STAGE 12B DATA ADDED	KML	11/15

WATER MAIN FITTING COORDINATE TABLE		
COMPONENT DESCRIPTION	mN	mE
FH1	819366.90	406339.23
FH2	819329.73	406239.78
FH3	819272.86	406214.25
FH4	819237.33	406298.88
FH5	819272.08	406387.62
FH6	819146.96	406185.12
SV1	819376.52	406355.94
SV2	819376.36	406356.42
SV3	819341.40	406292.53
SV4	819327.88	406223.08
SV5	819327.61	406222.73
SV6	819228.57	406260.08
SV7	819284.58	406401.29
SV8	819284.11	406401.25
SV9	819161.18	406117.71
GV1	819413.82	406334.01
GV2	819363.68	406333.64
GV3	819333.10	406257.09
GV4	819361.22	406225.36
GV5	819277.03	406216.29
GV6	819246.33	406216.19
GV7	819229.84	406261.22
GV8	819266.82	406379.16
GV9	819320.59	406384.19
GV10	819146.65	406186.14
GV11	819148.63	406176.72
SC1	819371.87	406329.64
SC2	819279.58	406295.61
SC3	819211.81	406206.82
SC4	819276.88	406371.11
SC5	819299.24	406339.00
SC6	819098.98	406205.79

Copyright of this drawing is vested in Cuttriss Consultants Limited