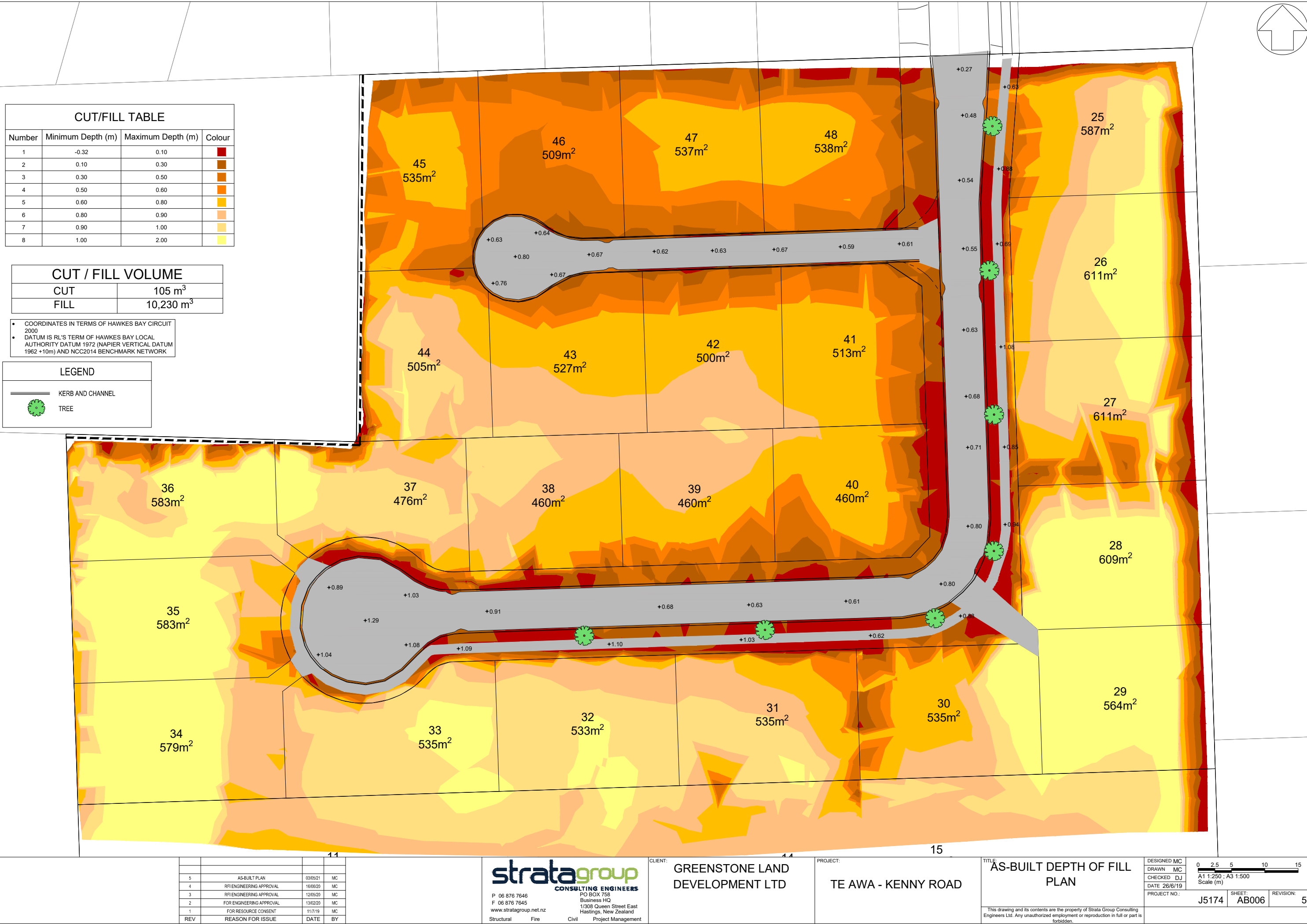
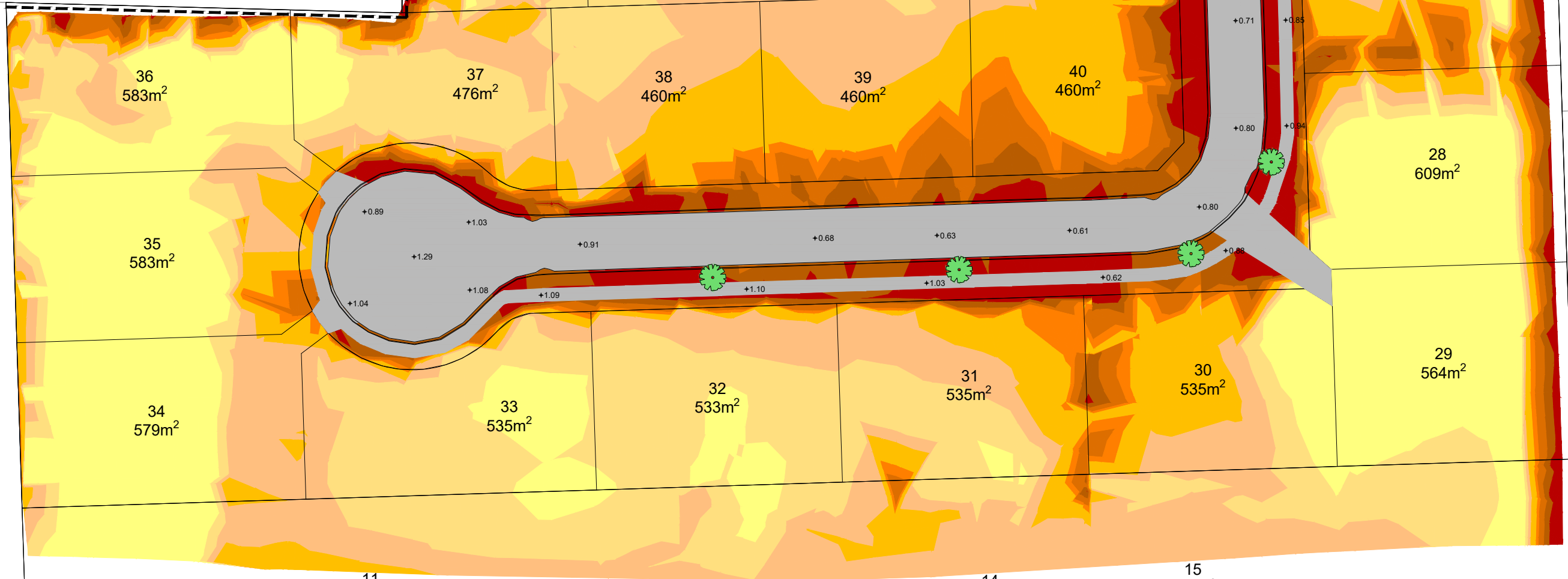




CUT / FILL VOLUME	
CUT	105 m ³
FILL	10,230 m ³

- COORDINATES IN TERMS OF HAWKES BAY CIRCUIT 2000
- DATUM IS RL'S TERM OF HAWKES BAY LOCAL AUTHORITY DATUM 1972 (NAPIER VERTICAL DATUM 1962 +10m) AND NCC2014 BENCHMARK NETWORK

LEGEND	
	KERB AND CHANNEL
	TREE



5	AS-BUILT PLAN	03/05/21	MC	
4	RFI ENGINEERING APPROVAL	16/05/20	MC	
3	RFI ENGINEERING APPROVAL	12/05/20	MC	
2	FOR ENGINEERING APPROVAL	13/02/20	MC	
1	FOR RESOURCE CONSENT	11/7/19	MC	
REV	REASON FOR ISSUE	DATE	BY	

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Structural Fire Civil Project Management

CLIENT: GREENSTONE LAND
DEVELOPMENT LTD

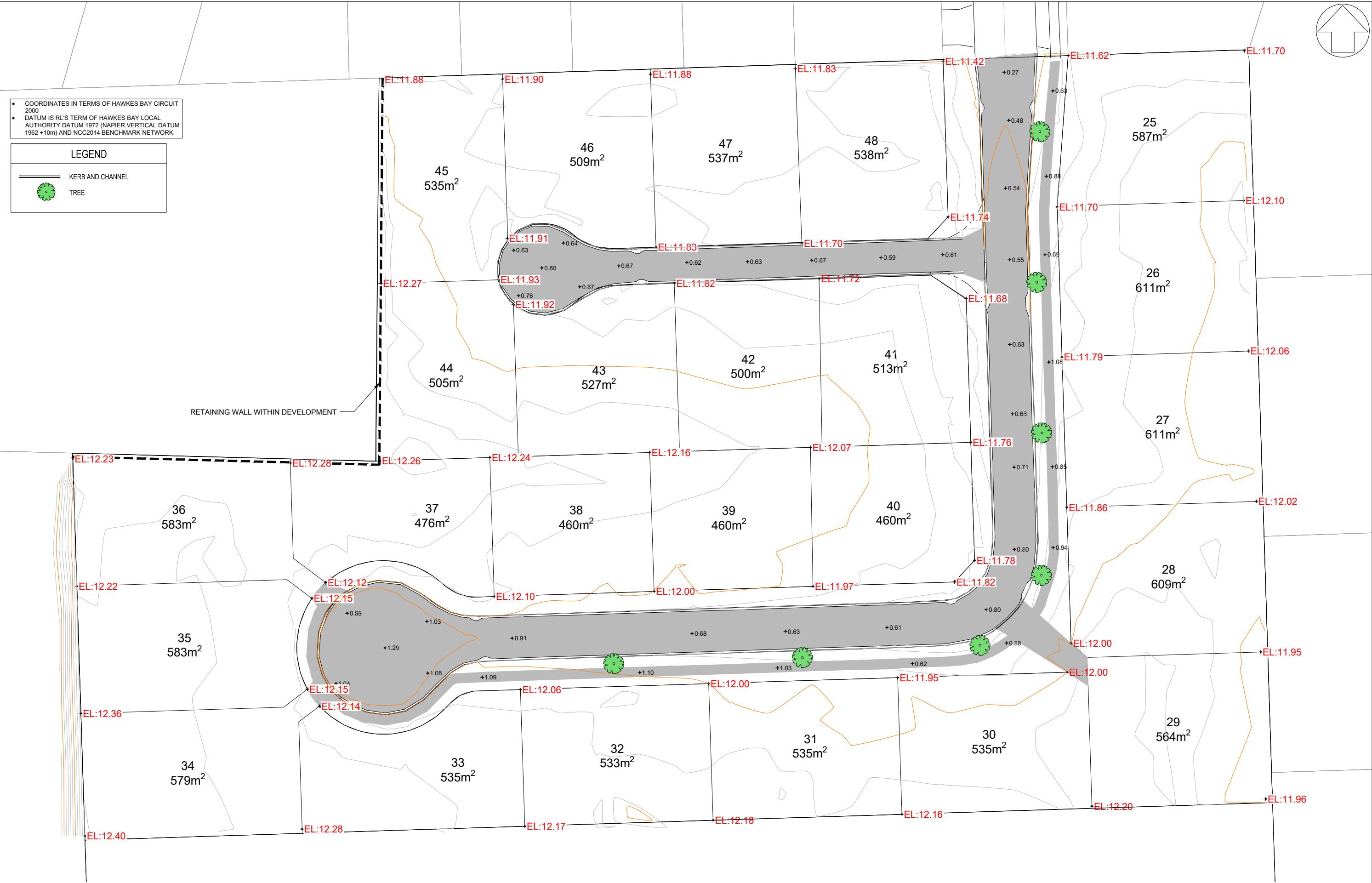
PROJECT:

TE AWA - KENNY ROAD

TITLE: AS-BUILT DEPTH OF FILL
PLAN

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DESIGNED MC			
DRAWN MC	A1 1:250 ; A3 1:500		
CHECKED DJ	Scale (m)		
DATE 26/6/19			
PROJECT NO.:	J5174	SHEET: AB006	REVISION: 5



• COORDINATES IN TERMS OF HAWKES BAY CIRCUIT 2000
• DATUM IS RL'S TERM OF HAWKES BAY LOCAL AUTHORITY DATUM 1972 (NAPIER VERTICAL DATUM 1962 +10m) AND NCC2014 BENCHMARK NETWORK

LEGEND

KERB AND CHANNEL

TREE

5	AS-BUILT PLAN	27/05/21	MC	
4	RFI ENGINEERING APPROVAL	16/06/20	MC	
3	RFI ENGINEERING APPROVAL	12/05/20	MC	
2	FOR ENGINEERING APPROVAL	13/02/20	MC	
1	FOR RESOURCE CONSENT	11/7/19	MC	
REV	REASON FOR ISSUE	DATE	BY	

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PROJECT: TE AWA - KENNY ROAD

TITLE: FINISHED CONTOURS PLAN

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DESIGNED MC
DRAWN MC
CHECKED DJ
DATE 26/6/19

PROJECT NO.: J5174

SHEET: AB007

REVISION: 5

0 2.5 5 10 15
A1 1:250 ; A3 1:500
Scale (m)

ROAD SURFACING AS FOLLOWS:

- 25MM M10 ASPHALTIC CONCRETE OVER WATERPROOFING MEMBRANE SEAL COAT

PAVEMENT:

- 150MM TNZ M4 AP40 BASECOURSE METAL
- 300MM GAP65 METAL SUBBASE

BERMS:

- 150MM TOPSOIL FREE OF STONES, FOREIGN MATTER & WEEDS
- BERMS SHALL BE MECHANICALLY TILLED AND LIGHTLY ROLLED PRIOR TO GRASSING
- "SWARD COVERAGE OF NOT LESS THAN 90% WITHIN 1 MONTH OF SOWING" (NZS 4404)

FOOTPATH:

- 100MM CONCRETE WITH "U5" (NZS 3114) LIGHT BROOM FINISH
- SAWCUT OR CONSTRUCTION JOINTS AT 5M CENTERS
- 100MM MIN COMPACTED AND SATURATED M4 BASECOURSE. BASECOURSE COMPACTED TO CIV = +25 TO BE WITNESSED BY NCC TRANSPORTATION ENGINEER

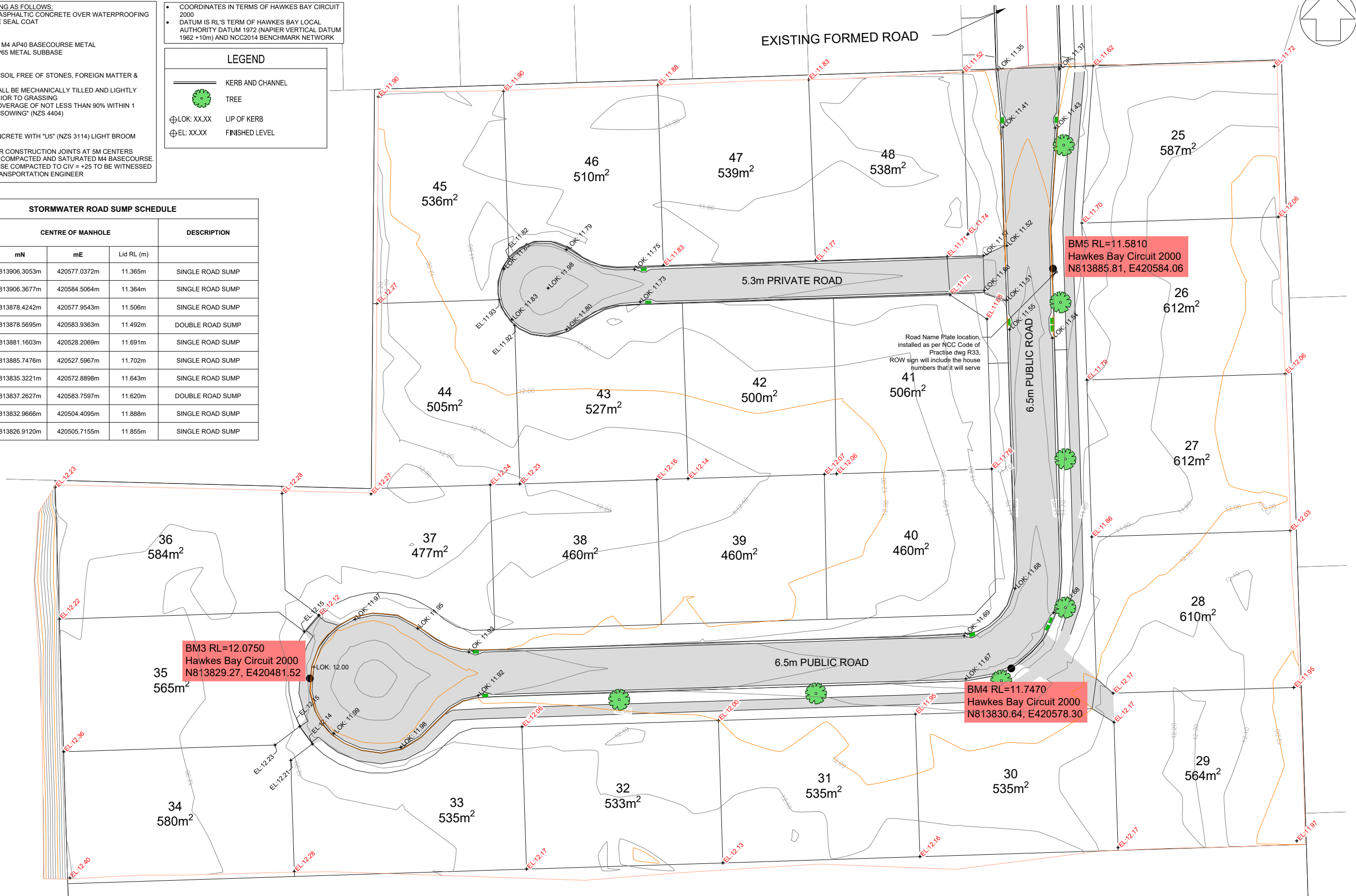
- COORDINATES IN TERMS OF HAWKES BAY CIRCUIT 2000
- DATUM IS RL'S TERM OF HAWKES BAY LOCAL AUTHORITY DATUM 1972 (NAPIER VERTICAL DATUM 1962 +10m) AND NCC2014 BENCHMARK NETWORK

LEGEND

- KERB AND CHANNEL
- TREE
- LOK: XX.XX LIP OF KERB
- EL: XX.XX FINISHED LEVEL

STORMWATER ROAD SUMP SCHEDULE

MANHOLE ID	CENTRE OF MANHOLE			DESCRIPTION
	mN	mE	Lid RL (m)	
SUMP1	813906.3053m	420577.0372m	11.365m	SINGLE ROAD SUMP
SUMP2	813906.3677m	420584.5064m	11.364m	SINGLE ROAD SUMP
SUMP3	813878.4242m	420577.9543m	11.506m	SINGLE ROAD SUMP
SUMP4	813878.5695m	420583.9363m	11.492m	DOUBLE ROAD SUMP
SUMP5	813881.1603m	420528.2069m	11.691m	SINGLE ROAD SUMP
SUMP6	813885.7476m	420527.5967m	11.702m	SINGLE ROAD SUMP
SUMP7	813835.3221m	420572.8898m	11.643m	SINGLE ROAD SUMP
SUMP8	813837.2627m	420583.7597m	11.620m	DOUBLE ROAD SUMP
SUMP9	813832.9666m	420504.4095m	11.888m	SINGLE ROAD SUMP
SUMP10	813826.9120m	420505.7155m	11.855m	SINGLE ROAD SUMP



BM3 RL=12.0750
Hawkes Bay Circuit 2000
N813829.27, E420481.52

BM4 RL=11.7470
Hawkes Bay Circuit 2000
N813830.64, E420578.30

BM5 RL=11.5810
Hawkes Bay Circuit 2000
N813885.81, E420584.06

Road Name Plate location,
installed as per NCC Code of
Practice dwg R33.
ROW sign will include the house
numbers that it will serve

REV	REASON FOR ISSUE	DATE	BY
5	AS-BUILT	27/05/21	MC
4	RFI ENGINEERING APPROVAL	15/06/20	MC
3	RFI ENGINEERING APPROVAL	12/05/20	MC
2	FOR ENGINEERING APPROVAL	13/02/20	MC
1	FOR RESOURCE CONSENT	11/7/19	MC

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PROJECT: TE AWA - KENNY ROAD

TITLE: ASBUILT ROADING LAYOUT

DESIGNED MC	0 2.5 5 10 15
DRAWN MC	A1 1:250 ; A3 1:500
CHECKED DJ	Scale (m)
DATE 26/6/19	
PROJECT NO. J5174	SHEET: AB010
	REVISION: 5

SCALE: 1:500H, 1:100V
DATUM: 8.00

HORIZONTAL GEOMETRY	L: 70.160								L: 17.277		L: 67.581								L: 12.874	
	178° 11' 08"								R: 11.000		268° 10' 39"								R: 61.626	
AS-BUILT LEVELS																				
CHAINAGE	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	168		

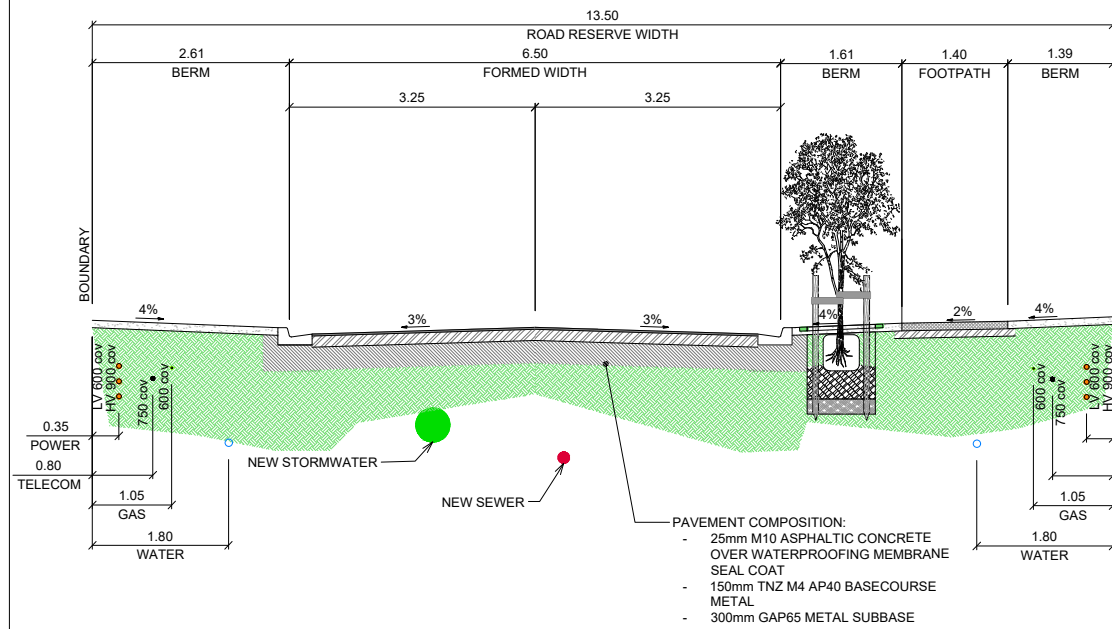
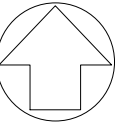
ROAD01 LONG SECTION

- ROAD SURFACING AS FOLLOWS:
- 25MM M10 ASPHALTIC CONCRETE OVER WATERPROOFING MEMBRANE SEAL COAT
- PAVEMENT:
- 150MM TNZ M4 AP40 BASECOURSE METAL
 - 300MM GAP65 METAL SUBBASE
- BERMS:
- 150MM TOPSOIL FREE OF STONES, FOREIGN MATTER & WEEDS
 - BERMS SHALL BE MECHANICALLY TILLED AND LIGHTLY ROLLED PRIOR TO GRASSING
 - "SWARD COVERAGE OF NOT LESS THAN 90% WITHIN 1 MONTH OF SOWING" (NZS 4404)
- FOOTPATH:
- 100MM CONCRETE WITH "U5" (NZS 3114) LIGHT BROOM FINISH
 - SAWCUT OR CONSTRUCTION JOINTS AT 5M CENTERS
 - 100MM MIN COMPACTED AND SATURATED M4 BASECOURSE. BASECOURSE COMPACTED TO CIV = +25 TO BE WITNESSED BY NCC TRANSPORTATION ENGINEER

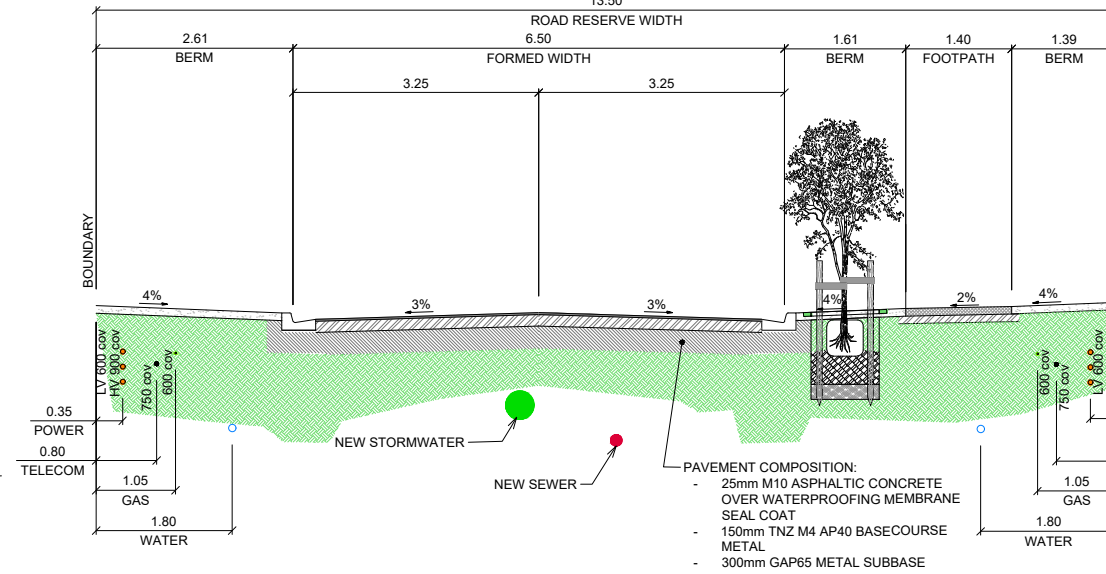
- COORDINATES IN TERMS OF HAWKES BAY CIRCUIT 2000
- DATUM IS RL'S TERM OF HAWKES BAY LOCAL AUTHORITY DATUM 1972 (NAPIER VERTICAL DATUM 1962 +10m) AND NCC2014 BENCHMARK NETWORK

LEGEND

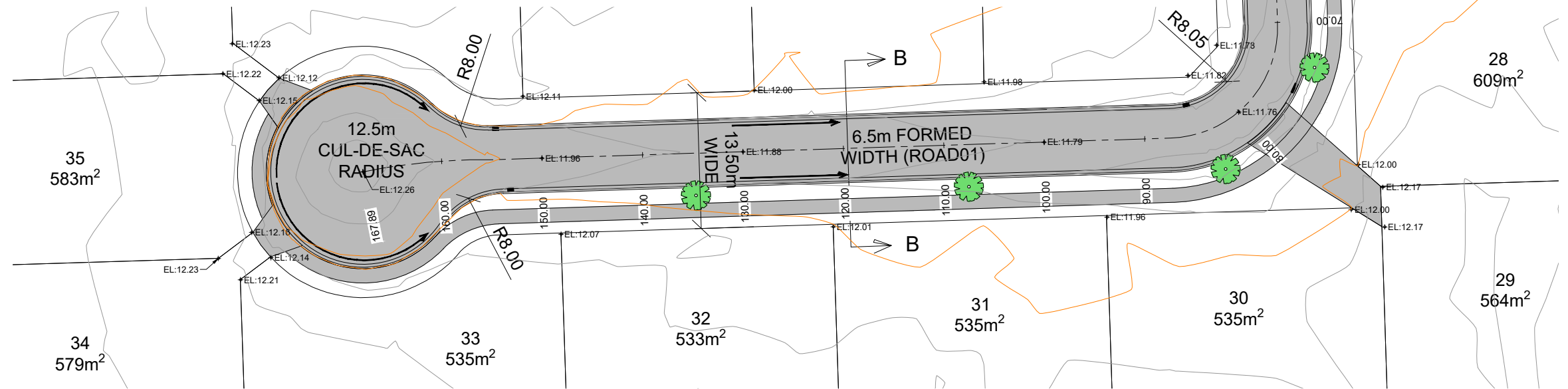
- KERB AND CHANNEL
- TREE



SECTION B-B
SCALE N.T.S



SECTION C-C
SCALE N.T.S



REV	REASON FOR ISSUE	DATE	BY
5	AS-BUILT	27/05/21	MC
4	RFI ENGINEERING APPROVAL	15/06/20	MC
3	RFI ENGINEERING APPROVAL	12/05/20	MC
2	FOR ENGINEERING APPROVAL	13/02/20	MC
1	FOR RESOURCE CONSENT	11/7/19	MC

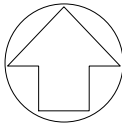
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CLIENT: GREENSTONE LAND DEVELOPMENT LTD

PROJECT: TE AWA - KENNY ROAD

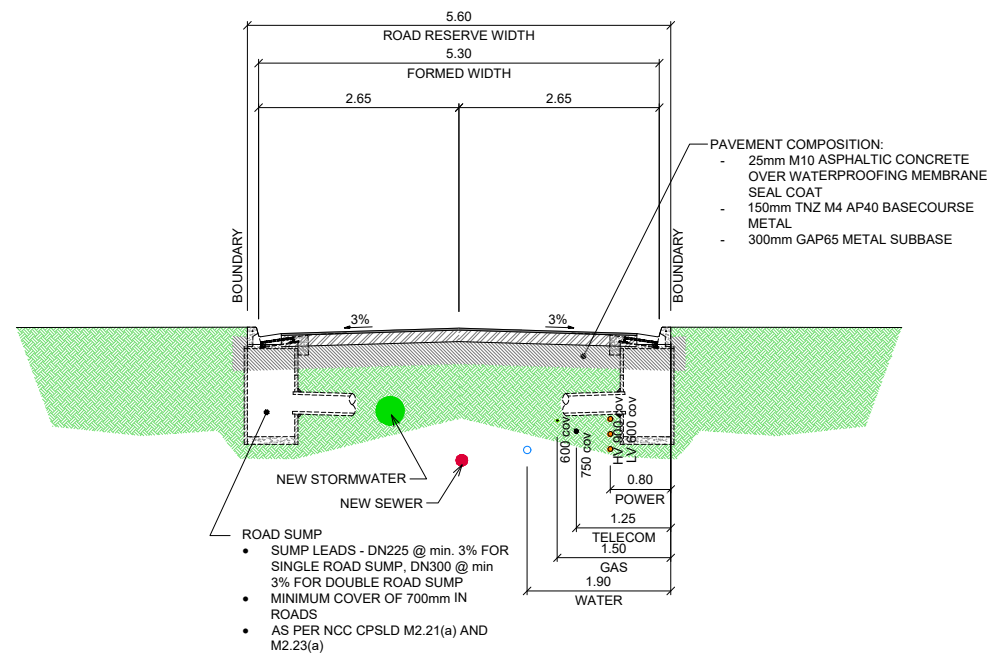
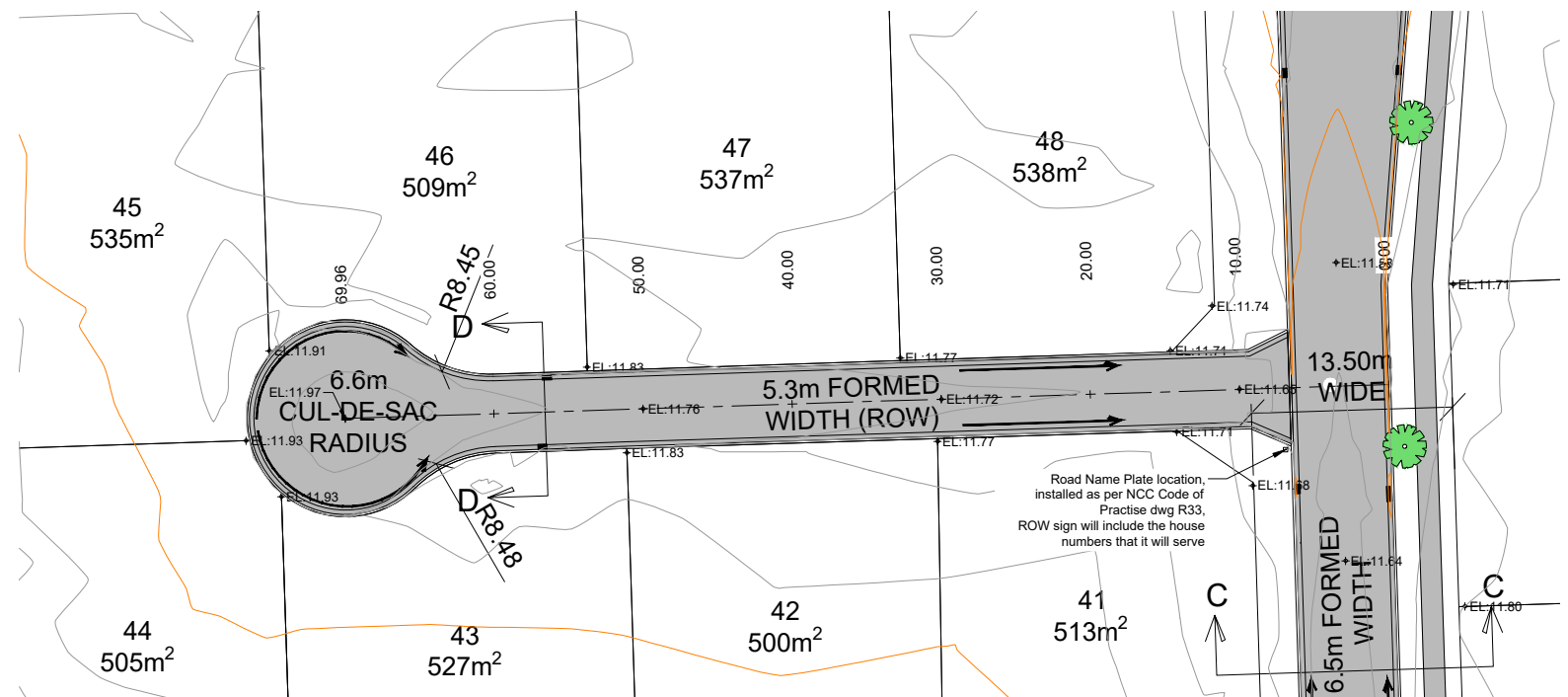
TITLE: AS-BUILT
ROAD 01 LONG SECTION
CROSS SECTION
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DESIGNED MC	DRAWN MC	CHECKED DJ	DATE 26/6/19
PROJECT NO. J5174	SHEET AB011	REVISION: 5	



				0.41%		0.28%		1.03%		2.07%					
SCALE: 1:500H, 1:100V DATUM: 8.00															
HORIZONTAL GEOMETRY		L: 69.962													
		268° 08' 22"													
<u>AS-BUILT LEVELS</u>			10	11.65	20	11.69	30	11.72	40	11.74	50	11.76	60	11.83	70
CHAINAGE		0													

ROW LONG SECTION



SECTION D-D
SCALE N.T.S

- ROAD SURFACING AS FOLLOWS:
- 25MM M10 ASPHALTIC CONCRETE OVER WATERPROOFING MEMBRANE SEAL COAT
- PAVEMENT:
- 150MM TNZ M4 AP40 BASECOURSE METAL
 - 300MM GAP65 METAL SUBBASE
- BERMS:
- 150MM TOPSOIL FREE OF STONES, FOREIGN MATTER & WEEDS
 - BERMS SHALL BE MECHANICALLY TILLED AND LIGHTLY ROLLED PRIOR TO GRASSING
 - "SWARD COVERAGE OF NOT LESS THAN 90% WITHIN 1 MONTH OF SOWING" (NZS 4404)
- FOOTPATH:
- 100MM CONCRETE WITH "U5" (NZS 3114) LIGHT BROOM FINISH
 - SAWCUT OR CONSTRUCTION JOINTS AT 5M CENTERS
 - 100MM MIN COMPACTED AND SATURATED M4 BASECOURSE. BASECOURSE COMPACTED TO CIV = +25 TO BE WITNESSED BY NCC TRANSPORTATION ENGINEER

- COORDINATES IN TERMS OF HAWKES BAY CIRCUIT 2000
- DATUM IS RL'S TERM OF HAWKES BAY LOCAL AUTHORITY DATUM 1972 (NAPIER VERTICAL DATUM 1962 +10m) AND NCC2014 BENCHMARK NETWORK

LEGEND

- KERB AND CHANNEL
- TREE

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Structural Fire Civil Project Management

CLIENT: GREENSTONE LAND
DEVELOPMENT LTD

PROJECT: TE AWA - KENNY ROAD

TITLE: AS-BUILT
ROW LONG SECTION
CROSS SECTION

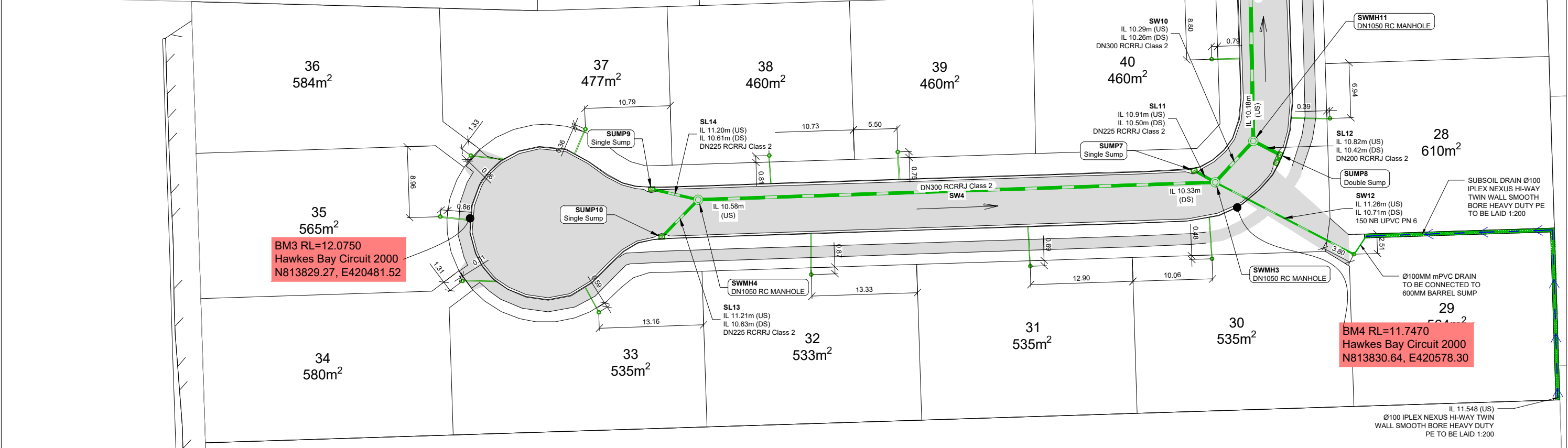
DESIGNED MC
DRAWN MC
CHECKED DJ
DATE 26/6/19
PROJECT NO.: J5174
SHEET: AB012
REVISION: 5

STORMWATER MANHOLE AND SUMP SCHEDULE				
MANHOLE ID	CENTRE OF MANHOLE			DESCRIPTION
	mN	mE	Lid RL (m)	
SWMH1	813908.6363m	420578.7465m	11.435m	DN 1200 RC MANHOLE
SWMH2	813883.9315m	420579.4949m	11.561m	DN 1500 RC MANHOLE
SWMH3	813833.8143m	420575.5437m	11.749m	DN 1050 RC MANHOLE
SWMH4	813831.6143m	420510.3097m	11.924m	DN 1050 RC MANHOLE
SWMH5	813882.7238m	420529.5424m	11.763m	DN 1050 RC MANHOLE
SWMH11	813839.0306m	420580.3497m	11.731m	DN 1050 RC MANHOLE
SWMH12	813910.8609m	420575.3823m	11.495m	DN 1050 RC MANHOLE
SUMP1	813906.3053m	420577.0372m	11.365m	SINGLE ROAD SUMP
SUMP2	813906.3677m	420584.5064m	11.364m	SINGLE ROAD SUMP
SUMP3	813878.4242m	420577.9543m	11.506m	SINGLE ROAD SUMP
SUMP4	813878.5695m	420583.9363m	11.492m	DOUBLE ROAD SUMP
SUMP5	813881.1603m	420528.2069m	11.691m	SINGLE ROAD SUMP
SUMP6	813885.7476m	420527.5967m	11.702m	SINGLE ROAD SUMP
SUMP7	813835.3221m	420572.8898m	11.643m	SINGLE ROAD SUMP
SUMP8	813837.2627m	420583.7597m	11.620m	DOUBLE ROAD SUMP
SUMP9	813832.9666m	420504.4095m	11.888m	SINGLE ROAD SUMP
SUMP10	813826.9120m	420505.7155m	11.855m	SINGLE ROAD SUMP
SUMP17	813881.3075m	420488.6740m	11.315m	DN 1050 SUMP W/ GRATED LID

- NOTES:
- ALL NEW MANHOLES ARE DN1050 REINFORCED CONCRETE UNLESS OTHERWISE
 - ALL NEW MANHOLES HAVE 200mm THICK HEAVY DUTY CLASS D CONCRETE LID
 - ALL NEW MANHOLES HAVE HYANDS TWINO A3396 CLASS E400 HEAVY DUTY IRON FRAME AND COVER
 - ROAD SUMP HAS A DN600 REINFORCED CONCRETE PIT WITH A CLASS D 580x350 HYDRO CONCAVE GRATE AND FRAME
 - LOT CONNECTIONS FOR LOT25-48 ARE ALL DN150 uPVC SN16
 - LOTS 25-28, 30-48 HAVE A 75x100x3MM RHS KERB CONNECTIONS WHEREAS LOT 29 DIRECTLY TO NEW DN1050 MANHOLE
 - ALL CONSTRUCTION INFORMATION FOR LOTS 25-48 BY SANTO DRAINAGE & CONTRACTING LTD

SURVEY DATUM: NZGD2000, HAWKES BAY CIRCUIT
HEIGHT DATUM: HAWKES BAY LOCAL AUTHORITY DATUM 1972 (NAPIER VERTICAL DATUM 1962 +10m) AND NCC 2014 BENCHMARK NETWORK
HEIGHT ORIGIN: BOLT 10, GEODETIC CODE: EVQ6, RL=11.208m, SOURCE: LINZ

LEGEND	
	STORMWATER PIPE
	STORMWATER MANHOLE
	STORMWATER ROAD SUMP
	STORMWATER DOUBLE ROAD SUMP
	KERB AND CHANNEL
	PRIVATE STORMWATER CHAMBER
	STORMWATER KERB CONNECTION



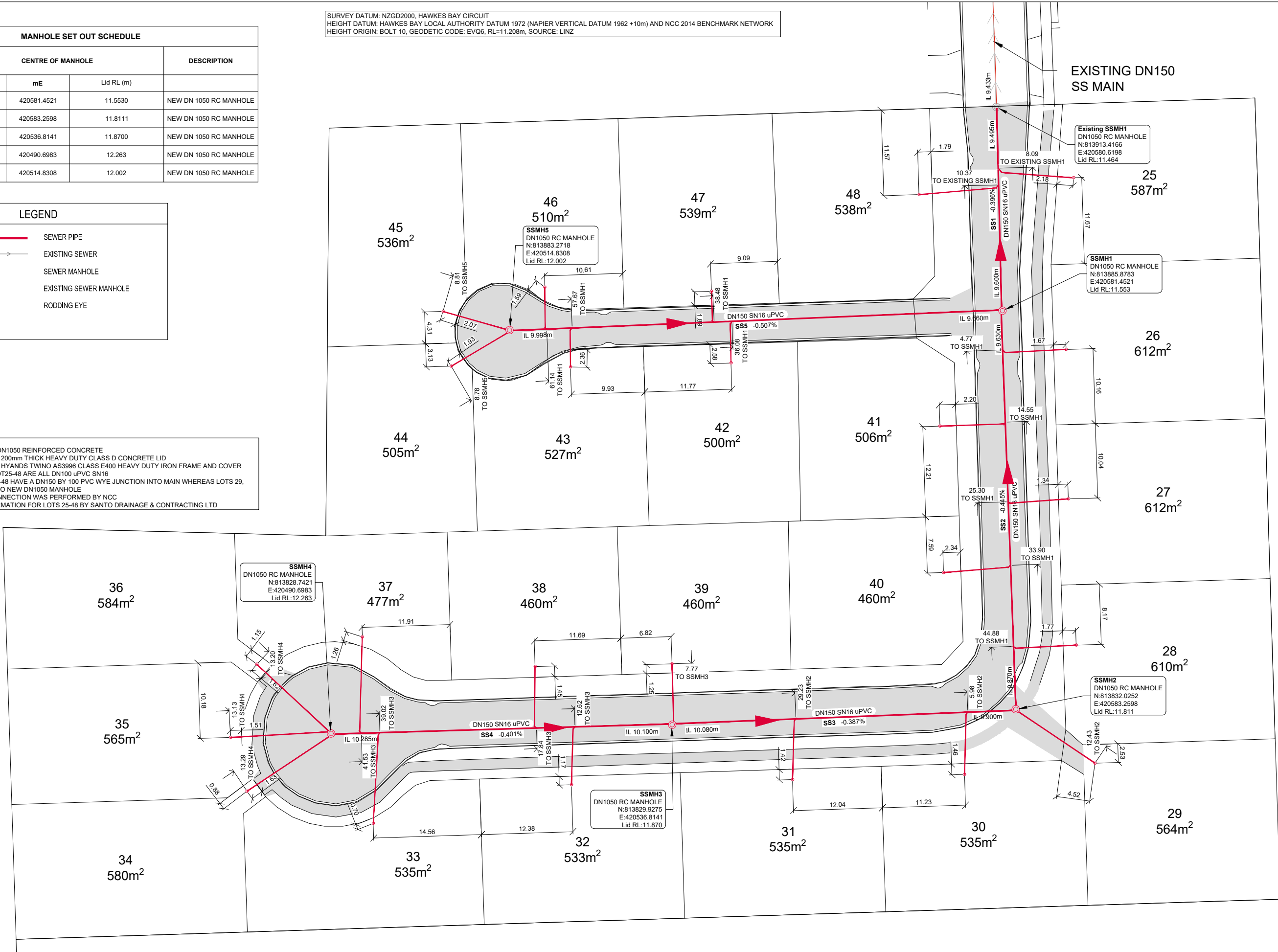
				 P 06 876 7646 F 06 876 7645 www.stratagroup.net.nz PO BOX 758 Business HQ 1/308 Queen Street East Hastings, New Zealand Structural Fire Civil Project Management		CLIENT: GREENSTONE LAND DEVELOPMENT LTD		PROJECT: TE AWA - KENNY ROAD		TITLE: AS-BUILT STORMWATER LAYOUT		<table><tr><td>DESIGNED MC</td><td>0</td><td>2.5</td><td>5</td><td>10</td><td>15</td></tr><tr><td>DRAWN MC</td><td colspan="5"></td></tr><tr><td>CHECKED DJ</td><td colspan="5">A1 1:250 ; A3 1:500</td></tr><tr><td>DATE 18/11/19</td><td colspan="5">Scale (m)</td></tr><tr><td>PROJECT NO.:</td><td colspan="2">J5174</td><td>SHEET: AB020</td><td colspan="2">REVISION: 6</td></tr></table>		DESIGNED MC	0	2.5	5	10	15	DRAWN MC						CHECKED DJ	A1 1:250 ; A3 1:500					DATE 18/11/19	Scale (m)					PROJECT NO.:	J5174		SHEET: AB020	REVISION: 6	
DESIGNED MC	0	2.5	5	10	15																																						
DRAWN MC																																											
CHECKED DJ	A1 1:250 ; A3 1:500																																										
DATE 18/11/19	Scale (m)																																										
PROJECT NO.:	J5174		SHEET: AB020	REVISION: 6																																							
<table><tr><td>6</td><td>AS-BUILT</td><td>27/05/21</td><td>MC</td></tr><tr><td>5</td><td>RFI ENGINEERING APPROVAL</td><td>29/06/20</td><td>MC</td></tr><tr><td>4</td><td>RFI ENGINEERING APPROVAL</td><td>15/06/20</td><td>MC</td></tr><tr><td>3</td><td>RFI ENGINEERING APPROVAL</td><td>13/05/20</td><td>MC</td></tr><tr><td>2</td><td>FOR ENGINEERING APPROVAL</td><td>17/02/20</td><td>MC</td></tr><tr><td>1</td><td>FOR RESOURCE CONSENT</td><td>18/11/19</td><td>MC</td></tr><tr><td>REV</td><td>REASON FOR ISSUE</td><td>DATE</td><td>BY</td></tr></table>				6	AS-BUILT	27/05/21	MC	5	RFI ENGINEERING APPROVAL	29/06/20	MC	4	RFI ENGINEERING APPROVAL	15/06/20	MC	3	RFI ENGINEERING APPROVAL	13/05/20	MC	2	FOR ENGINEERING APPROVAL	17/02/20	MC	1	FOR RESOURCE CONSENT	18/11/19	MC	REV	REASON FOR ISSUE	DATE	BY	This drawing and its contents are the property of Strata Group Consulting Engineers Ltd. Any unauthorized employment or reproduction in full or part is forbidden.											
6	AS-BUILT	27/05/21	MC																																								
5	RFI ENGINEERING APPROVAL	29/06/20	MC																																								
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1	FOR RESOURCE CONSENT	18/11/19	MC																																								
REV	REASON FOR ISSUE	DATE	BY																																								

MANHOLE SET OUT SCHEDULE				
MANHOLE ID	CENTRE OF MANHOLE			DESCRIPTION
	mN	mE	Lid RL (m)	
SSMH1	813885.8783	420581.4521	11.5530	NEW DN 1050 RC MANHOLE
SSMH2	813832.0252	420583.2598	11.8111	NEW DN 1050 RC MANHOLE
SSMH3	813829.9275	420536.8141	11.8700	NEW DN 1050 RC MANHOLE
SSMH4	813828.7421	420490.6983	12.263	NEW DN 1050 RC MANHOLE
SSMH5	813883.2718	420514.8308	12.002	NEW DN 1050 RC MANHOLE

LEGEND	
	SEWER PIPE
	EXISTING SEWER
	SEWER MANHOLE
	EXISTING SEWER MANHOLE
	RODDING EYE

- NOTES:
- ALL NEW MANHOLES ARE DN1050 REINFORCED CONCRETE
 - ALL NEW MANHOLES HAVE 200mm THICK HEAVY DUTY CLASS D CONCRETE LID
 - ALL NEW MANHOLES HAVE HYANDS TWINO AS3996 CLASS E400 HEAVY DUTY IRON FRAME AND COVER
 - LOT CONNECTIONS FOR LOT25-48 ARE ALL DN100 uPVC SN16
 - LOTS 25-28, 30-33, 37-43, 46-48 HAVE A DN150 BY 100 PVC WYE JUNCTION INTO MAIN WHEREAS LOTS 29, 34-36, 39, 44-45 DIRECTLY TO NEW DN1050 MANHOLE
 - SSMH (EXISTING) MAIN CONNECTION WAS PERFORMED BY NCC
 - ALL CONSTRUCTION INFORMATION FOR LOTS 25-48 BY SANTO DRAINAGE & CONTRACTING LTD

SURVEY DATUM: NZGD2000, HAWKES BAY CIRCUIT
HEIGHT DATUM: HAWKES BAY LOCAL AUTHORITY DATUM 1972 (NAPIER VERTICAL DATUM 1962 +10m) AND NCC 2014 BENCHMARK NETWORK
HEIGHT ORIGIN: BOLT 10, GEODETIC CODE: EVQ6, RL=11.208m, SOURCE: LINZ



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1/308 Queen Street East
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Structural Fire Civil Project Management

CLIENT: GREENSTONE LAND DEVELOPMENT LTD

PROJECT: TE AWA - KENNY ROAD

TITLE: AS-BUILT WASTE WATER LAYOUT

DESIGNED MC	0	2.5	5	10	15
DRAWN MC	A1 1:250 ; A3 1:500				
CHECKED DJ	Scale (m)				
DATE 26/6/19					
PROJECT NO. J5174	SHEET AB030	REVISION: 5			

SURVEY DATUM: NZGD2000, HAWKES BAY CIRCUIT
HEIGHT DATUM: HAWKES BAY LOCAL AUTHORITY DATUM 1972 (NAPIER VERTICAL DATUM 1962 +10m) AND NCC 2014 BENCHMARK NETWORK
HEIGHT ORIGIN: BOLT 10, GEODETIC CODE: EVQ6, RL=11.208m, SOURCE: LINZ

HYDRANTS AND VALVES

	Easting	Northing	RL
FH 01	420577.000	813874.362	11.676
FH 02	420530.205	813835.056	11.937
GV01	420574.197	813889.522	11.640
GV02	420531.171	813835.186	11.936

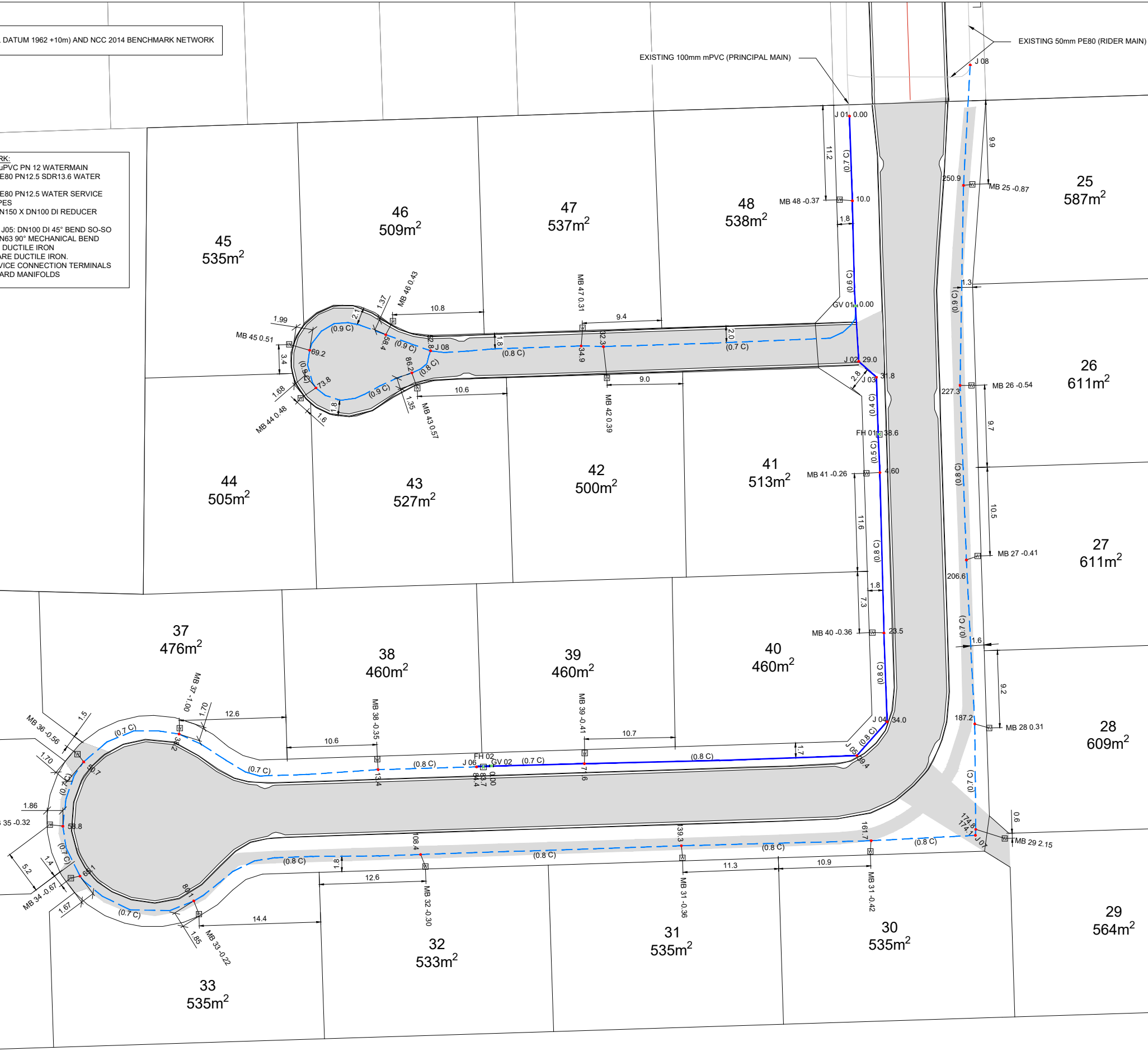
LOT MANIFOLDS

	Easting	Northing	RL
LOT 25	420588.019	813903.884	11.665
LOT 26	420587.907	813880.130	11.757
LOT 27	420588.644	813859.989	11.802
LOT 28	420590.010	813839.663	11.960
LOT 29	420591.845	813826.613	12.180
LOT 30	420575.961	813825.092	11.874
LOT 31	420553.744	813824.331	11.920
LOT 32	420523.360	813823.304	12.031
LOT 33	420496.584	813817.685	12.154
LOT 34	420481.432	813821.931	12.120
LOT 35	420478.948	813828.240	12.240
LOT 36	420482.223	813836.574	12.113
LOT 37	420494.304	813839.645	12.116
LOT 38	420517.663	813835.976	12.022
LOT 39	420542.181	813836.698	11.973
LOT 40	420576.192	813850.927	11.789
LOT 41	420575.492	813869.754	11.755
LOT 42	420544.817	813881.028	11.796
LOT 43	420522.392	813879.810	11.881
LOT 44	420508.607	813878.626	11.943
LOT 45	420507.244	813884.989	11.920
LOT 46	420519.514	813887.720	11.828
LOT 47	420541.930	813886.943	11.809
LOT 48	420572.332	813902.076	11.660

- WATER PIPE NETWORK:
- DN100 uPVC PN 12 WATERMAIN
 - DN63 PE80 PN12.5 SDR13.6 WATER RIDER MAIN
 - DN20 PE80 PN12.5 WATER SERVICE
 - CONNECTION PIPES
 - JUNCTION J01: DN150 X DN100 DI REDUCER SO-SO
 - JUNCTIONS J02 - J05: DN100 DI 45° BEND SO-SO
 - JUNCTION J07: DN63 90° MECHANICAL BEND
 - ALL VALVES ARE DUCTILE IRON
 - ALL HYDRANTS ARE DUCTILE IRON
 - ALL WATER SERVICE CONNECTION TERMINALS ARE NCC STANDARD MANIFOLDS

WATERLINE JUNCTIONS

	Easting	Northing	RL	DESCRIPTION
J 01	420573.482	813911.941	10.863	150x100 Reducer
J 02	420574.576	813882.982	10.959	45deg Bend
J 03	420576.686	813881.096	10.894	45deg Bend
J 04	420577.937	813840.412	10.970	45deg Bend
J 05	420574.347	813836.399	10.909	45deg Bend
J 06	420529.385	813835.074	11.198	End Cap
J 07	420588.376	813826.982	11.303	90deg Bend
J 08	420523.956	813884.231	10.889	Tee



REV	REASON FOR ISSUE	DATE	BY
5	AS-BUILT PLAN	03/05/21	MC
4	RFI ENGINEERING APPROVAL	16/06/20	MC
3	RFI ENGINEERING APPROVAL	12/05/20	MC
2	FOR ENGINEERING APPROVAL	13/02/20	MC
1	FOR RESOURCE CONSENT	11/7/19	MC

stratagroup
CONSULTING ENGINEERS

P 06 876 7646
F 06 876 7645
www.stratagroup.net.nz

PO BOX 758
Business HQ
1/308 Queen Street East
Hastings, New Zealand

Structural Fire Civil Project Management

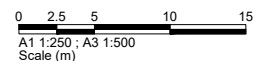
CLIENT: GREENSTONE LAND DEVELOPMENT LTD

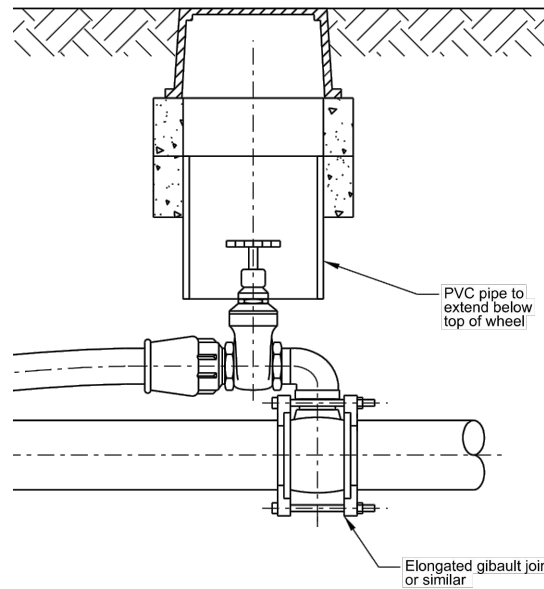
PROJECT: TE AWA - KENNY ROAD

TITLE: AS-BUILT WATER LAYOUT

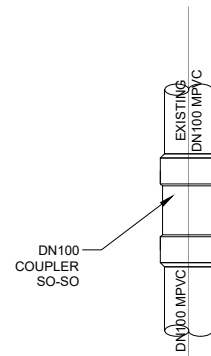
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DESIGNED MC	DRAWN MC	CHECKED DJ	DATE 26/6/19
PROJECT NO. J5174	SHEET AB040	REVISION: 5	

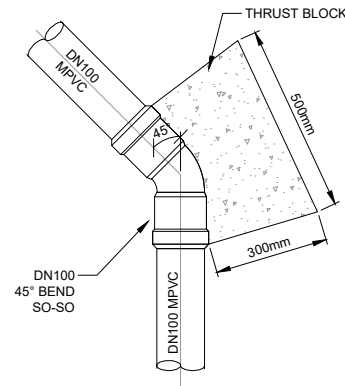




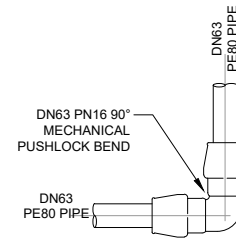
DETAIL GV01 - GATE VALVE AND CONNECTION OF RIDER MAIN TO PRINCIPAL MAIN



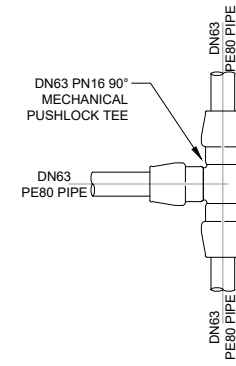
DETAIL J01 - COUPLER



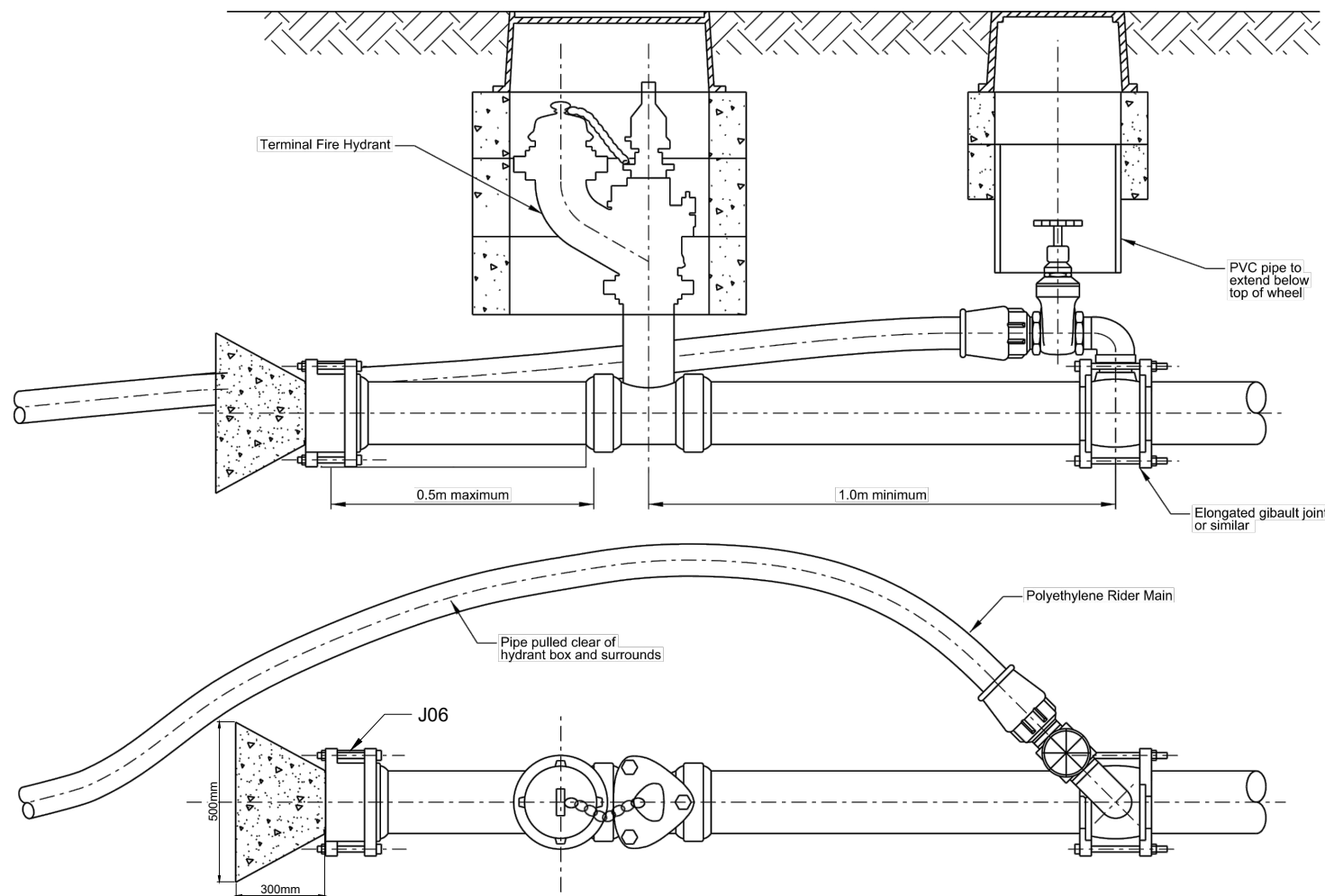
DETAIL J02, J03, J04 & J05 - DI 45° BEND



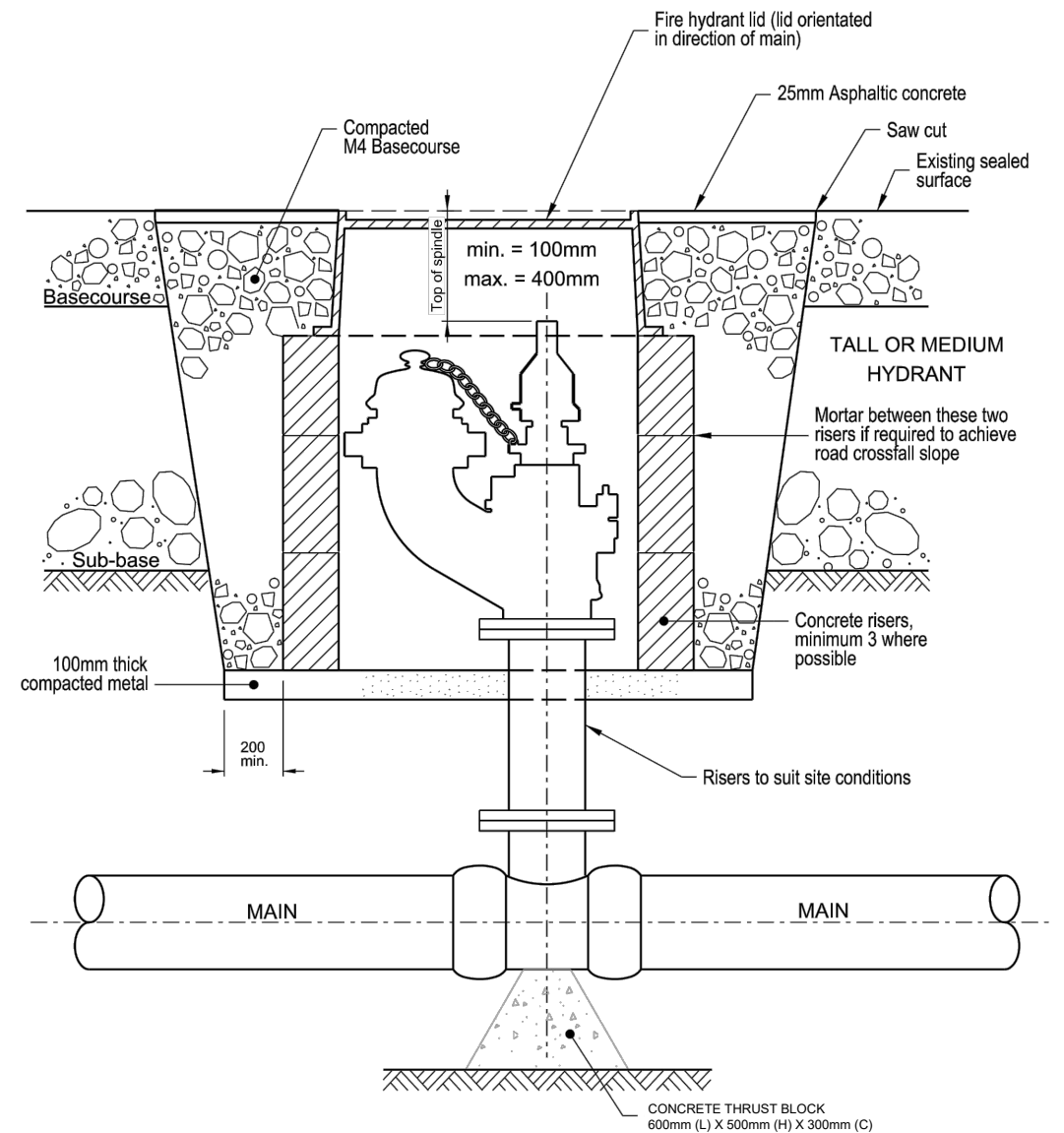
DETAIL J07 - 90° MECHANICAL BEND CONNECTION



DETAIL J08 - MECHANICAL TEE CONNECTION



DETAIL FH02 AND GV02 - TERMINATING FIRE HYDRANT



DETAIL FH01 - FIRE HYDRANT

REV	REASON FOR ISSUE	DATE	BY
5	AS-BUILT PLAN	13/05/21	MC
4	RFI ENGINEERING APPROVAL	16/05/20	MC
3	RFI ENGINEERING APPROVAL	12/05/20	MC
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PO BOX 758
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Structural Fire Civil Project Management

CLIENT: GREENSTONE LAND DEVELOPMENT LTD

PROJECT: TE AWA - KENNY ROAD

TITLE: AS-BUILT WATER DETAILS

DESIGNED MC	DRAWN MC	CHECKED DJ	DATE 26/6/19	PROJECT NO. J5174	SHEET AB041	REVISION: 5
NOT TO SCALE						