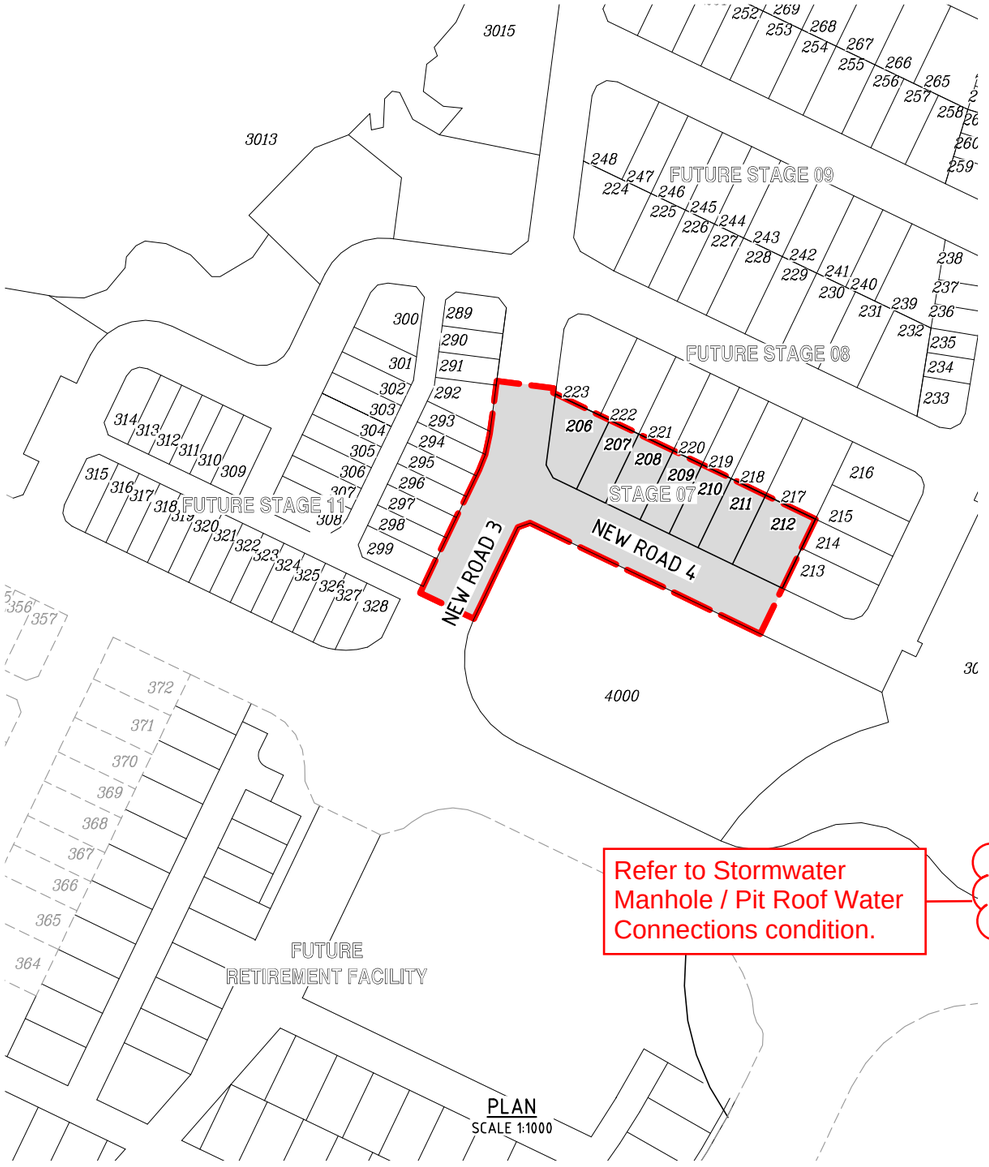
Stockland

RIVERMONT PRECINCT 2
STAGE 7 - 7 LOTS

DRAWING INDEX

DRAWING NO.	DRAWING TITLE
24-277-01	GENERAL - LOCALITY PLAN, DRAWING INDEX AND NOTES
24-277-02	GENERAL - SETOUT PLAN
24-277-03	GENERAL - LAYOUT PLAN
24-277-04	GENERAL - PAVEMENT PLAN
24-277-05	EARTHWORKS - CONTOUR PLAN
24-277-06	EARTHWORKS - SPOT LEVELS PLAN
24-277-07	ROADWORKS - LONG AND CROSS SECTIONS - NEW ROAD 3
24-277-08	ROADWORKS - LONG AND CROSS SECTIONS - NEW ROAD 4 & 5
24-277-09	ROADWORKS - INTERSECTION DETAILS
24-277-10	ROADWORKS - LINEMARKING PLAN
24-277-11	STORMWATER - CATCHMENT PLAN
24-277-12	STORMWATER - LONG SECTIONS
24-277-13	STORMWATER - LONG SECTIONS
24-277-14	STORMWATER - MANHOLE DETAILS
24-277-15	STORMWATER - CALCULATION TABLE - SHEET 1
24-277-16	STORMWATER - CALCULATION TABLE - SHEET 2
24-277-17	SEDIMENT AND EROSION - CONTOUR PLAN - POST CONSTRUCTION
24-277-18	SEDIMENT BASIN NOTES
24-277-19	PREFERRED BENCHING PLAN
24-277-20	SAFETY AND DESIGN



PLAN
SCALE 1:1000

GENERAL NOTES

1. ALL WORK SHALL BE JOINED NEATLY TO EXISTING CONSTRUCTION.
2. WHERE REFERENCE IS MADE ON THESE DRAWINGS TO A KERB LINE, IT SHALL BE TAKEN TO MEAN THE KERB INVERT LINE.
3. LEVELS FOR KERB AND CHANNEL CONSTRUCTION ARE SHOWN AT LIP OF CHANNEL UNLESS SHOWN OTHERWISE.
4. KERB AND CHANNEL AND SPOON DRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH INSTITUTE OF PUBLIC WORKS ENGINEERING AUSTRALIA STANDARD DWG NO SEQ R-080. SPOON DRAINS ACROSS ROAD INTERSECTIONS SHALL BE IN ACCORDANCE WITH INSTITUTE OF PUBLIC WORKS ENGINEERING AUSTRALIA STD DWG NO SEQ R-080. THE CONCRETE SHALL BE CLASS N32 AND THE DEPTH INCREASED BY 50mm TO 175mm AT INVERT. FLUSH KERB TO BE INCREASED IN DEPTH BY 50mm TO 280mm.
5. IF MACHINE MADE KERB AND CHANNEL IS USED, EXTRA FINES AND 20mm SLUMP IS REQUIRED.
6. ALL DRAINAGE CENTRE LINES ARE TO BE 1.5m FROM INVERT OF KERB FOR 6.0m WIDE ROADS AND 2.0m OFF THE INVERT OF THE KERB FOR ALL OTHERS, UNLESS OTHERWISE SHOWN.
7. GULLY CONNECTIONS AND STORM WATER PIPES SHALL BE 375mm DIAMETER CLASS '3' R.C. PIPES UNLESS SHOWN OTHERWISE.
8. THE CONTRACTOR SHALL INITIALLY EXCAVATE THE PAVEMENT BOX TO 225mm BELOW THE FINISHED PAVEMENT LEVEL SHOWN ON THE DRAWINGS. HE SHALL THEN NOTIFY THE ENGINEER WHO WILL FIX THE PAVEMENT THICKNESS TO BE CONSTRUCTED FOLLOWING THE RESULTS OF SUB-GRADE TESTING.
9. NOTWITHSTANDING THE LIMITS OF CUTTING AND FILLING SHOWN ON THE DRAWINGS, THE ACTUAL LIMITS SHALL BE DETERMINED ON SITE BY THE ENGINEER AND SIMILARLY THE FINISHED SURFACE CONTOURS MAY BE ADJUSTED BY WRITTEN DIRECTION OF THE ENGINEER DURING CONSTRUCTION.
10. THE MINIMUM CLEARANCE BETWEEN OUTER WALLS OF PIPES IN MANHOLES SHALL BE 150mm.
11. SUBSURFACE DRAIN CLEANING POINTS SHALL BE INSTALLED IN ACCORDANCE WITH IPWEAQ STD DWG NO SEQ R-140.
12. CONSTRUCTION LOAD CONTROL ON THE INSTALLATION OF REINFORCED CONCRETE STORMWATER PIPE WORK SHALL BE UNDERTAKEN IN ACCORDANCE WITH THE RECOMMENDATIONS DEFINED IN THE CONCRETE PIPE ASSOCIATIONS OF AUSTRALASIA'S "THE INSTALLATIONS OF STEEL REINFORCED CONCRETE PIPES - MINIMUM PIPE COVER REQUIRED FOR VARIOUS COMPACTORS".
13. PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL ERECT A STARPICKET AND 2 STRAND WIRE FENCE TO THE PERIMETER OF VEGETATION TO BE RETAINED.

ROOFWATER

1. uP.V.C. SEWER PIPES TO BE USED SHALL BE :-
   (a) PIPES - CLASS SH (TO AS 1260)
   (b) FITTINGS - CLASS M (TO AS 1260)
2. THE MINIMUM COVER TO ALL ROOFWATER DRAINAGE LINES SHALL BE 300mm FOR FRC AND 450mm FOR uPVC, EXCEPT IN THE CASE OF 100mm DIAMETER LINES DISCHARGING THROUGH KERB INTO CHANNEL.
3. THE ENDS OF 100mm ROOFWATER CONNECTIONS FROM LOT DIRECTLY TO GULLY PIT SHALL BE CAPPED AND LOCATED WITH NOT LESS THAN 300mm AND NOT MORE THAN 450mm COVER UNLESS OTHERWISE APPROVED.
4. ALL ROOFWATER LINES TERMINATING IN THE KERB AND CHANNEL SHALL BE LAID AT A MINIMUM GRADE 1 IN 50 AND SHALL HAVE A 'KACEY' CAST ALUMINIUM KERB ADAPTOR OR EQUIVALENT.
5. THE ENDS OF ALL LINES SHALL BE PLUGGED WITH APPROVED FITTINGS.
6. PROVIDE 2 KERB ADAPTORS FOR ALL LOTS . ALL KERB ADAPTORS SHALL BE CAST INTO KERB AND CHANNEL UNLESS PIPED CONNECTION TO SW STRUCTURE PROVIDED.
7. WHERE THE COVER IS LESS THAN 400mm FOR ROOFWATER THE PIPE CLASS SHALL BE SEH uPVC.
8. THE KERB ADAPTOR SHALL BE LOCATED SO THAT ITS CENTRE LINE IS 300mm FROM THE PROJECTION OF THE SIDE BOUNDARY AT THE KERB LINE.

Refer to Stormwater Manhole / Pit Roof Water Connections condition.

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

Approval no: DEV-2026-WAR-4914

Date: 10/07/2026

Queensland Government

AMENDED IN RED

By: Mahima Reshamwala

Date: 10/07/2026

Queensland Government

SCALE
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1 : 1000 (A1 UNREDUCED)

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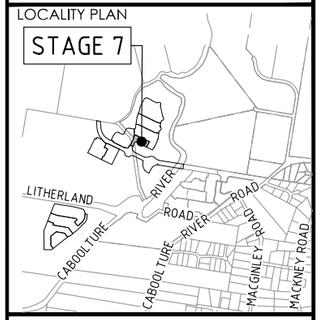
NORTH

LOCALITY PLAN



REVISIONS

No	Description	Date	By
A	FOR APPROVAL	20.02.2026	DF
B	FOR APPROVAL	14.05.2026	DF

Client: Stockland

Project: RIVERMONT PRECINCT 2 STAGE 7

kn group
L1, 62 Astor Terrace, Spring Hill, QLD 4000
www.kngroup.au | 07 3017 1900

Approved Director - RPEQ 17544
Digitally signed by Mark Shaw RPEQ 17544
Date: 2026.06.08 14:42:45+10'00'

Drawing Title: GENERAL LOCALITY PLAN, DRAWING INDEX AND NOTES

Drawn	Designed	Checked	Date
DF	JB	MAS	MAY' 26

Scale	Sheet
AS SHOWN	01 of 20

	Drawing No	Revision
A1	24-277-01	B

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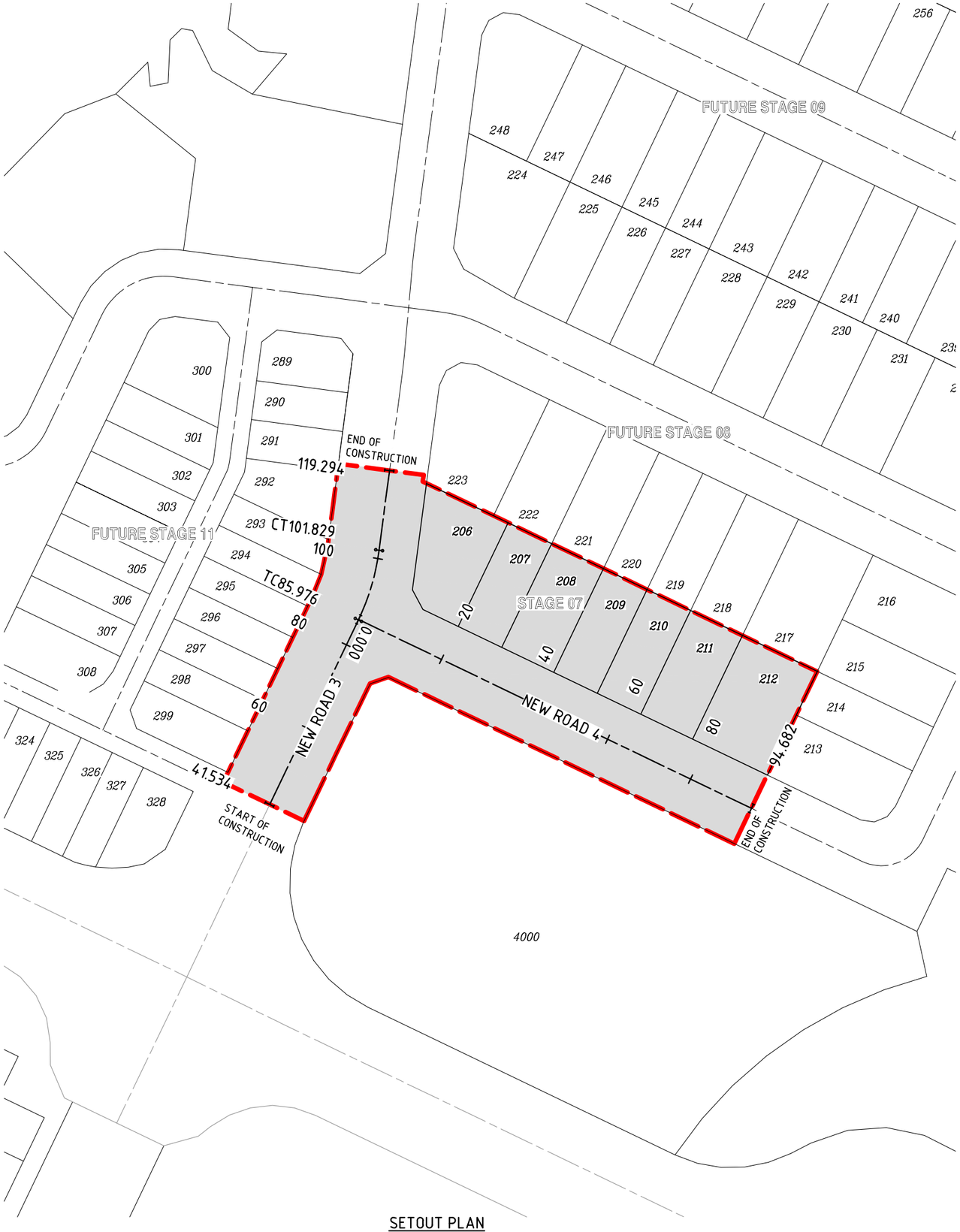

SETOUT PLAN
SCALE 1:500

NEW ROAD 3 CONTROL LINE DETAILS

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	8619.476	11783.076	25.360	25°40'00.00"			
TC	85.976	8656.715	11860.568	25.519	25°40'00.00"			
IP 2	93.903	8660.178	11867.773	25.499		R = -50.000	15.853	18°10'00.00"
CT	101.829	8661.221	11875.699	25.460	7°30'00.00"			
TC	140.861	8666.316	11914.396	25.268	7°30'00.00"			
IP 3	143.007	8666.596	11916.524	25.265		R = -100.000	4.292	2°27'33.91"
CT	145.153	8666.785	11918.662	25.266	5°02'26.09"			
TC	164.164	8668.455	11937.599	25.453	5°02'26.09"			
IP 4	166.310	8668.643	11939.738	25.494		R = 100.000	4.292	2°27'33.91"
CT	168.456	8668.924	11941.866	25.540	7°30'00.00"			
TC	239.177	8678.155	12011.982	27.006	7°30'00.00"			
IP 5	245.795	8679.023	12018.582	26.941		R = 50.000	13.235	15°10'00.00"
CT	252.413	8681.589	12024.724	26.875	22°40'00.00"			
TC	278.519	8691.649	12048.814	26.613	22°40'00.00"			
IP 6	283.883	8693.724	12053.783	26.560		R = -50.000	10.727	12°17'30.73"
CT	289.246	8694.694	12059.079	26.506	10°22'29.27"			
TC	306.664	8697.831	12076.212	26.332	10°22'29.27"			
IP 7	314.173	8699.193	12083.654	26.257		R = 50.000	15.017	17°12'30.73"
CT	321.682	8702.696	12090.360	26.182	27°35'00.00"			
TC	372.935	8726.429	12135.788	25.874	27°35'00.00"			
IP 8	380.622	8730.907	12144.359	25.835		R = 10.000	15.373	88°05'00.00"
CT	388.309	8739.623	12140.170	25.797	115°40'00.00"			
TC	459.846	8804.102	12109.185	25.666	115°40'00.00"			
IP 9	467.482	8811.137	12105.804	25.772		R = -30.000	15.271	29°09'57.16"
CT	475.118	8818.928	12106.281	25.897	86°30'02.84"			
IP 10	487.709	8831.495	12107.049	26.102	86°30'02.84"			

NEW ROAD 4 CONTROL LINE DETAILS

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	8656.769	11860.680	25.519	115°40'00.00"			
TC	121.170	8765.983	11808.197	27.072	115°40'00.00"			
IP 2	129.024	8774.996	11803.866	27.111		R = -10.000	15.708	90°00'00.00"
CT	136.878	8779.328	11812.879	27.151	25°40'00.00"			
TC	186.378	8800.768	11857.495	27.387	25°40'00.00"			
IP 3	194.232	8805.099	11866.508	27.382		R = -10.000	15.708	90°00'00.00"
CT	202.086	8796.086	11870.839	27.344	295°40'00.00"			
TC	326.372	8684.064	11924.672	25.184	295°40'00.00"			
IP 4	331.128	8679.741	11926.749	25.181		R = -30.000	9.512	18°10'00.00"
CT	335.884	8674.985	11927.375	25.205	277°30'00.00"			
IP 5	343.294	8667.638	11928.343	25.321	277°30'00.00"			

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV-2026-WAR-4914

Date: 10/07/2026

Queensland Government

LEGEND

STAGE BOUNDARY

PROPOSED ROAD CENTRELINE

SCALE 10 5 0 10 20 30 40 50m

1 : 500 (A1 UNREDUCED)

DO NOT SCALE THIS DRAWING
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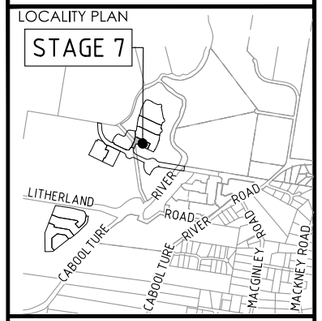
NORTH

LOCALITY PLAN



REVISIONS

No	Description	Date	By
A	FOR APPROVAL	20.02.2026	DF
B	FOR APPROVAL	14.05.2026	DF

Client: Stockland

Project: RIVERMONT
PRECINCT 2
STAGE 7

kn group
L1. 62 Astor Terrace, Spring Hill, QLD 4000
www.kngroup.com.au | 07 3017 1900

Approved Director - RPEQ 17544
M. Shaw
Digitally signed by Mark Shaw RPEQ 17544
Date: 2026.06.08 14:42:46+10'00'

Drawing Title: GENERAL SETOUT PLAN

Drawn	Designed	Checked	Date
DF	JB	MAS	MAY' 26

Scale	Sheet
AS SHOWN	02 of 20

A1	Drawing No	Revision
	24-277-02	B

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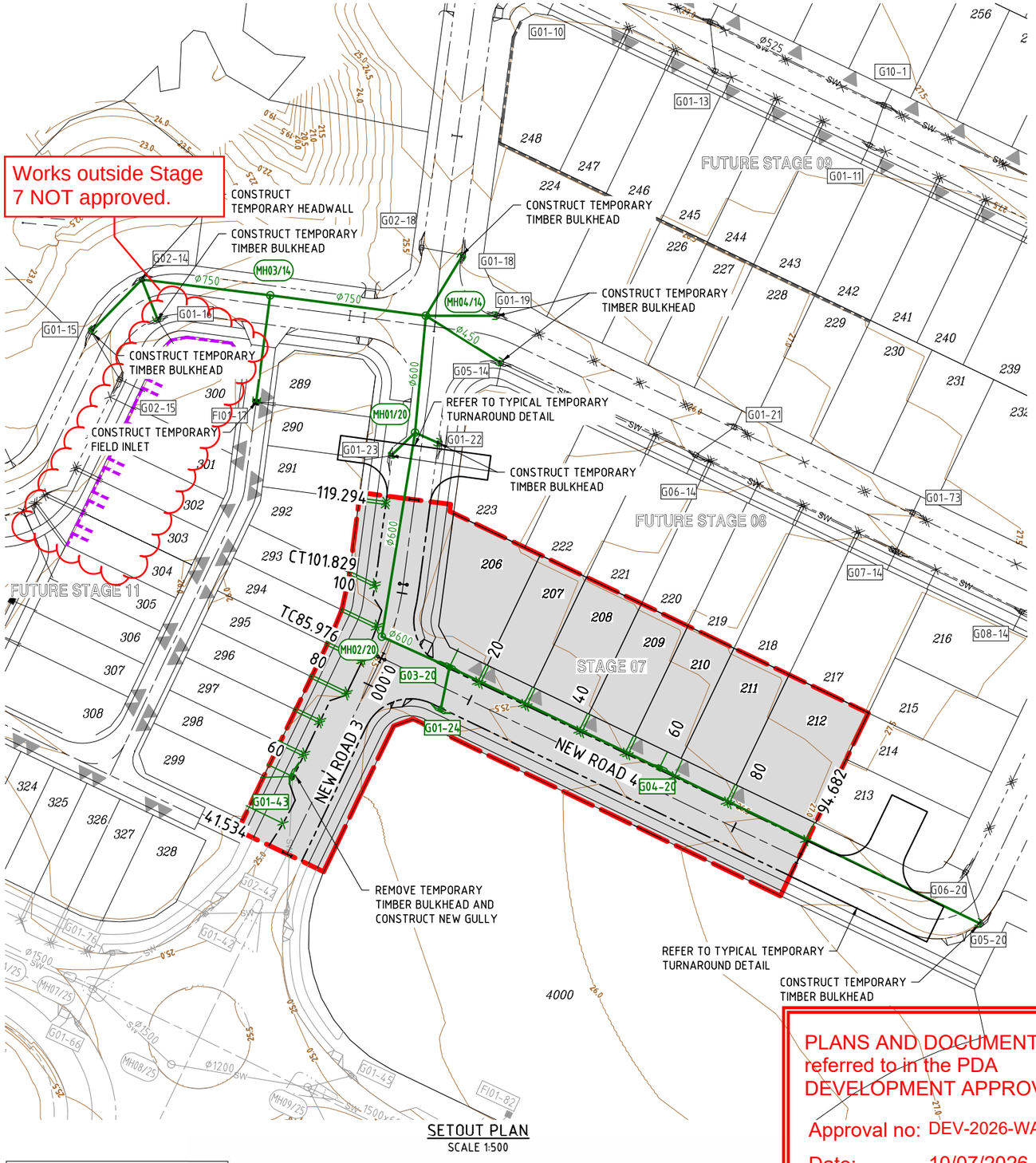
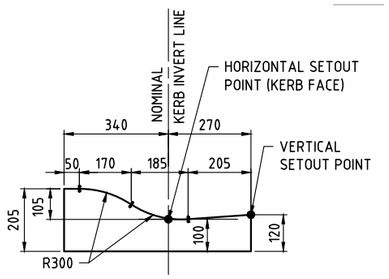


SETOUT PLAN
SCALE 1:500

LEGEND

- STAGE BOUNDARY
- PROPOSED ROAD CENTRELINE
- M3 MOUNTABLE KERB AND CHANNEL
- B1 BARRIER KERB AND CHANNEL (300)
- PROPOSED STORMWATER DRAINAGE
- PROPOSED STORMWATER SUBSOIL
- FUTURE MASONRY WALL
- FUTURE RETAINING WALL
- FINISHED SURFACE CONTOURS
- STORMWATER MANHOLE NUMBER
- STORMWATER GULLY PIT NUMBER
- DRIVEWAY POSITION
- FLUSHING POINT (SIDEDRAIN)
- 100ø ROOFWATER CONNECTION TO GULLY PIT/MH. MIN 450mm COVER IN LOT
- 100ø PVC ROOFWATER CONNECTION TO KERB ADAPTOR
- KERB ADAPTOR LOCATION
- EXISTING STORMWATER
- EXISTING WATER MAIN



KERB SETOUT DETAIL - MOUNTABLE KERB AND CHANNEL TYPE M3
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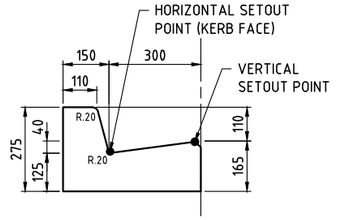
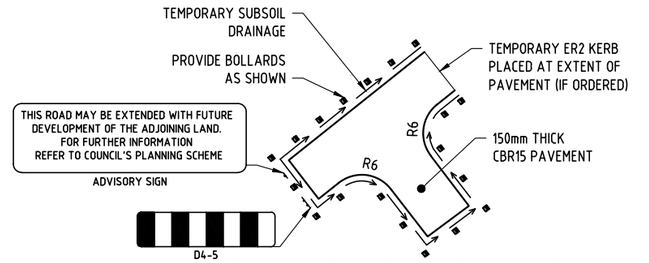
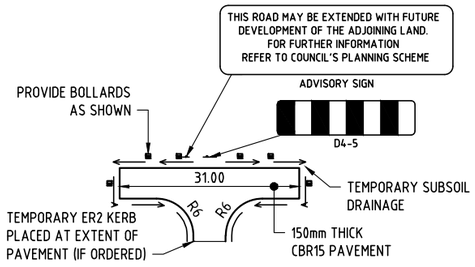


KERB SETOUT DETAIL BARRIER KERB AND CHANNEL TYPE B1
SCALE 1:10



TEMPORARY TURNAROUND DETAIL- ROAD 21
SCALE NTS



TYPICAL TEMPORARY HAMMERHEAD TURNAROUND DETAIL
SCALE NTS

SCALE
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1 : 500 (A1 UNREDUCED)

FIRE ANT TREATMENT ZONE
HIGH RISK FIRE ANT RESTRICTED AREA (RED ZONE). MOVEMENT OF RESTRICTED ITEMS SHALL BE IN ACCORDANCE WITH DEPARTMENT OF AGRICULTURE, FISHERIES AND FORESTRY REQUIREMENTS. REFER TO www.daff.qld.gov.au

DANGER UNDERGROUND CABLES

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PROPOSED WORKS ARE NEAR EXISTING SERVICES. CONTRACTOR TO COMPLETE DBYD AND LOCATE ALL EXISTING SERVICES PRIOR TO COMMENCING CONSTRUCTION. POST SERVICE LOCATION, CONTRACTOR TO SUPPLY SURVEY INFORMATION TO SUPERINTENDENT'S REPRESENTATIVE PRIOR TO THE COMMENCEMENT OF WORK.

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL
Approval no: DEV-2026-WAR-4914
Date: 10/07/2026

Queensland Government

AMENDED IN RED
By: Mahima Reshamwala
Date: 10/07/2026

Queensland Government

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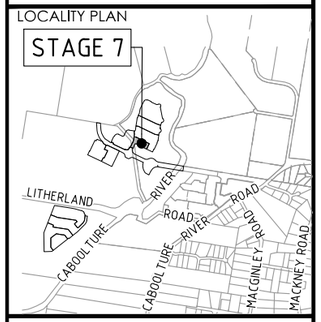
NORTH

LOCALITY PLAN



REVISIONS

No	Description	Date	By
A	FOR APPROVAL	20.02.2026	DF
B	FOR APPROVAL	14.05.2026	DF

Client
Stockland

Project
RIVERMONT
PRECINCT 2
STAGE 7

kn group
L1, 62 Astor Terrace, Spring Hill, QLD 4000
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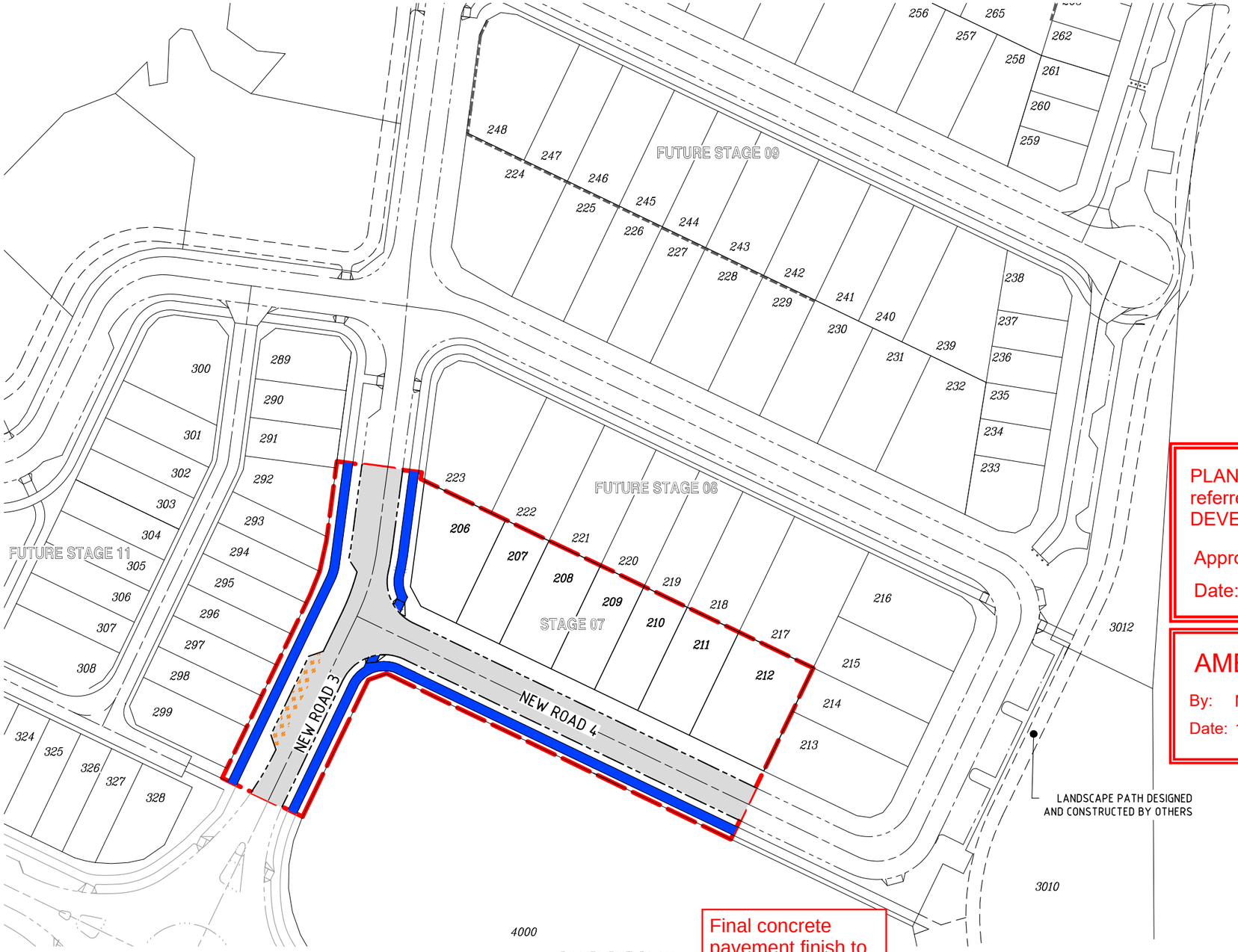
Approved Director - RPEQ 17544
M. Shaw
Digitally signed by Mark Shaw RPEQ 17544
Date: 2026.06.08 14:42:46+10'00'

Drawing Title
GENERAL LAYOUT PLAN

Drawn	Designed	Checked	Date
DF	JB	MAS	MAY' 26

Scale	Sheet
AS SHOWN	03 of 20

A1	Drawing No	Revision
	24-277-03	B



PAVEMENT PLAN
SCALE 1:500

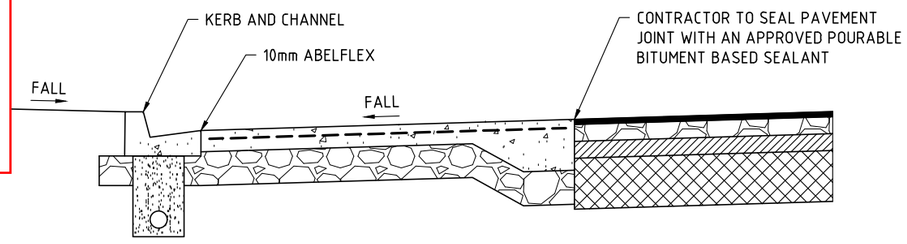
PAVEMENT LEGEND

CONCRETE PARKING- COLOUR: CCS LIZARD SKIN. FINISH: ~~LIGHT EXPOSURE SANDBLAST AGGREGATE~~ HY-TEC JAFFA 90

CONCRETE FOOTPATH - COLOUR: CCS LIZARD SKIN - FINISH: BROOM

ROADWAY- ASPHALT - REFER PAVEMENT DETAIL ON RELEVANT ROAD LONGITUDINAL SECTION

Final concrete pavement finish to be confirmed with MBC at pre-start meeting or prior to construction commencement.



TYPICAL PARKING BAY INTERFACE
SCALE 1:10

FIRE ANT TREATMENT ZONE
HIGH RISK FIRE ANT RESTRICTED AREA (RED ZONE). MOVEMENT OF RESTRICTED ITEMS SHALL BE IN ACCORDANCE WITH DEPARTMENT OF AGRICULTURE, FISHERIES AND FORESTRY REQUIREMENTS. REFER TO www.daff.qld.gov.au

DANGER UNDERGROUND CABLES

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POST SERVICE LOCATION, CONTRACTOR TO SUPPLY SURVEY INFORMATION TO SUPERINTENDENT'S REPRESENTATIVE PRIOR TO THE COMMENCEMENT OF WORK.

SCALE
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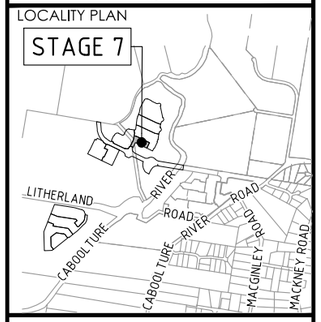
LOCALITY PLAN



REVISIONS

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A	FOR APPROVAL	20.02.2026	DF
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Client
Stockland

Project
RIVERMONT
PRECINCT 2
STAGE 7

kn group
L1, 62 Astor Terrace. Spring Hill, QLD 4000
www.kngroup.com.au | 07 3017 1900

Approved Director - RPEQ 17544
Digitally signed by Mark Shaw RPEQ 17544
Date: 2026.06.08 14:42:47+10'00'

Drawing Title
GENERAL
PAVEMENT PLAN

Drawn	Designed	Checked	Date
DF	JB	MAS	MAY' 26

Scale	Sheet
AS SHOWN	04 of 20

A1	Drawing No	Revision
	24-277-04	B

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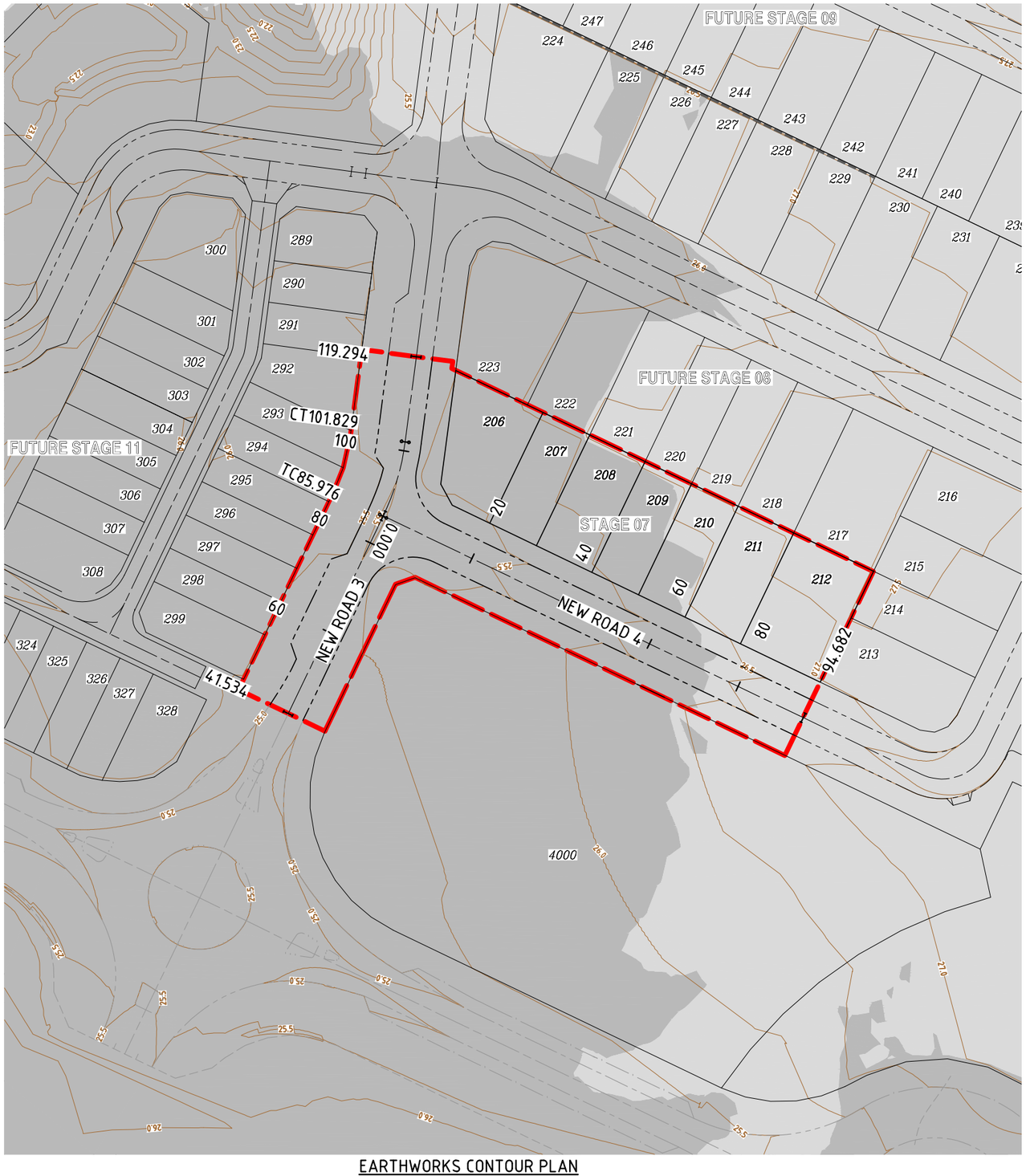

EARTHWORKS CONTOUR PLAN
SCALE 1:500

LEGEND

- STAGE BOUNDARY
- PROPOSED ROAD CENTRELINE
- M3 MOUNTABLE KERB AND CHANNEL
- B1 BARRIER KERB AND CHANNEL (300)
- B2 BARRIER KERB
- FINISHED SURFACE CONTOURS (36.0)
- NATURAL SURFACE CONTOURS (36.0)
- FUTURE RETAINING WALL
- EXTENT OF CUT
- EXTENT OF FILL

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV-2026-WAR-4914

Date: 10/07/2026

Queensland Government

SCALE
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1 : 500 (A1 UNREDUCED)

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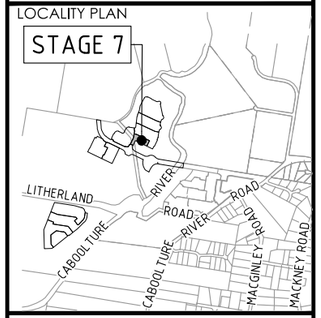
LOCALITY PLAN



REVISIONS

No	Description	Date	By
A	FOR APPROVAL	20.02.2026	DF
B	FOR APPROVAL	14.05.2026	DF

Client: Stockland

Project: RIVERMONT PRECINCT 2 STAGE 7

kn group
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Approved Director - RPEQ 17544
Digitally signed by Mark Shaw RPEQ 17544
Date: 2026.06.08 14:42:47+10'00'

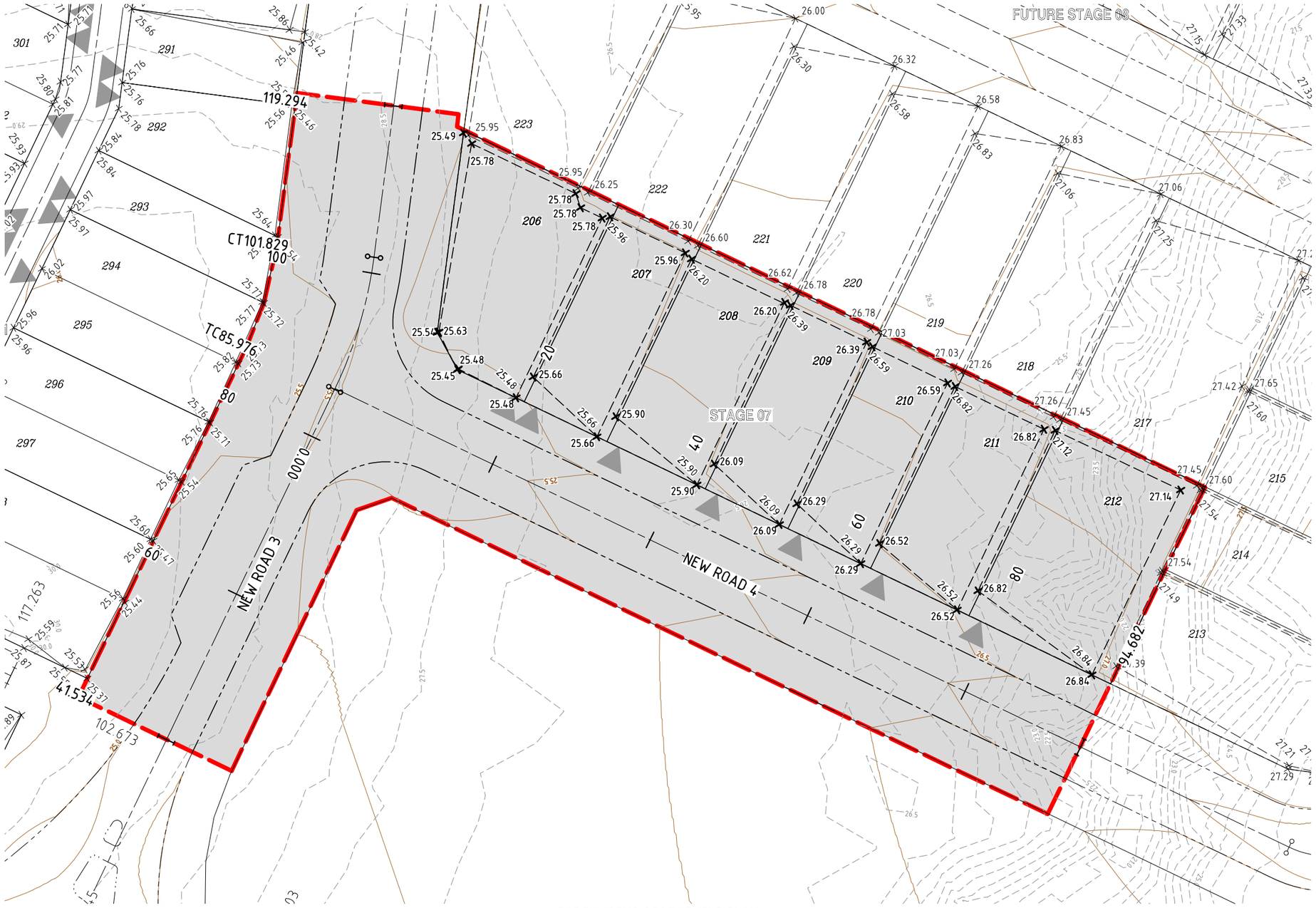
Drawing Title: EARTHWORKS CONTOUR PLAN

Drawn	Designed	Checked	Date
DF	JB	MAS	MAY' 26

Scale	Sheet
AS SHOWN	05 of 20

A1	Drawing No	Revision
	24-277-05	B

M:\2024\24-277 Rivermont P2 Stage 7\Engineering\Acad\24-277-05-EW-CONTOURS.dwg Plotted by: AL on 8/06/2026 11:26:26 AM



EARTHWORKS SPOT LEVELS PLAN
SCALE 1:250

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV-2026-WAR-4914

Date: 10/07/2026

Queensland Government

LEGEND

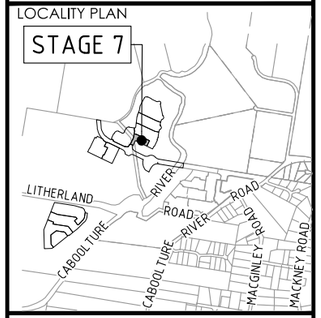
- STAGE BOUNDARY
- PROPOSED ROAD CENTRELINE
- M3 MOUNTABLE KERB AND CHANNEL
- B1 BARRIER KERB AND CHANNEL (300)
- B2 BARRIER KERB
- FINISHED SURFACE CONTOURS (35.0)
- NATURAL SURFACE CONTOURS (36.0)
- BATTER LINE
- EXISTING RETAINING WALL
- CONCRETE RETAINING WALL
- FUTURE RETAINING WALL
- DRIVEWAY POSITION
- ✕23.300 FINISHED SURFACE LEVELS

SCALE
5 0 5 10 15 20 25m
1 : 250 (A1 UNREDUCED)

DO NOT SCALE THIS DRAWING
IF IN DOUBT - ASK!

NORTH

LOCALITY PLAN



REVISIONS

No	Description	Date	By
A	FOR APPROVAL	20.02.2026	DF
B	FOR APPROVAL	14.05.2026	DF

Client: Stockland

Project: RIVERMONT
PRECINCT 2
STAGE 7

kn group
L1, 62 Astor Terrace, Spring Hill, QLD 4000
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Approved Director - RPEQ 17544
M. Shaw
Digitally signed by Mark Shaw RPEQ 17544
Date: 2026.06.08 14:42:47+10'00'

Drawing Title: EARTHWORKS SPOT LEVELS PLAN

Drawn	Designed	Checked	Date
DF	JB	MAS	MAY' 26

Scale	Sheet
AS SHOWN	06 of 20

A1	Drawing No	Revision
	24-277-06	B

M:\2024\24-277 Rivermont P2 Stage 7\Engineering\Acad\24-277-06-EW-SPOT-LEVEL.dwg Plotted by: AL on 8/06/2026 11:26:43 AM

NOMINAL PAVEMENT DETAILS

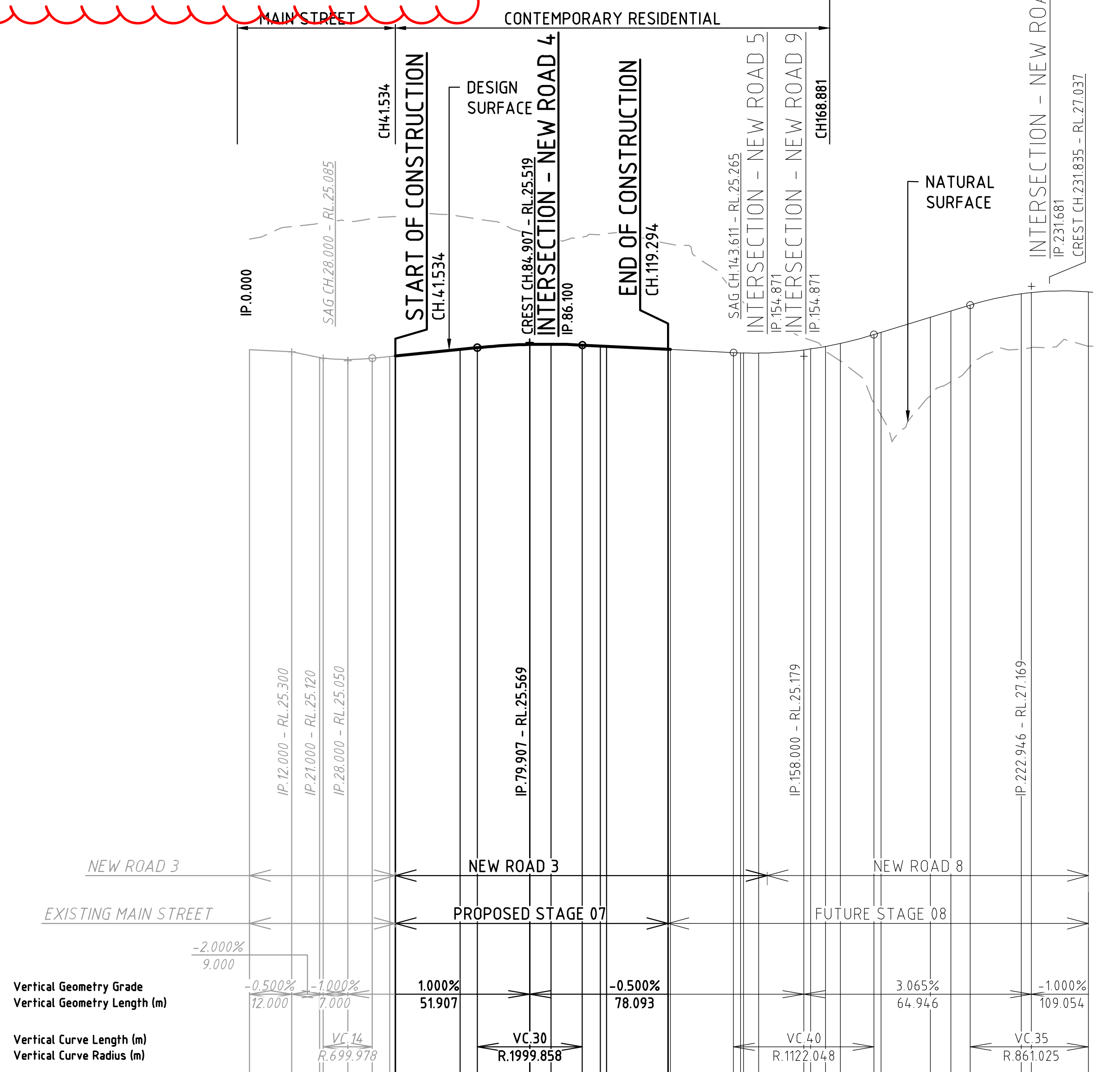
CONTEMPORARY RESIDENTIAL

- ~~40~~mm ASPHALTIC CONCRETE (min 50)
- 5mm PRIMER SEAL
- ~~100~~mm BASE COURSE (TYPE 2.1, CBR 80) (min 115)
- ~~100~~mm UPPER SUB-BASE COURSE (TYPE 2.3, CBR 45)
- ~~200~~mm LOWER SUB-BASE COURSE (TYPE 2.5, CBR 15)
- SUBGRADE REPLACEMENT 300mm (TYPE 2.5, CBR 15)
- DESIGN ESA = 3 X 10^5

Refer to Pavement Design condition.

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL
Approval no: DEV-2026-WAR-4914
Date: 10/07/2026
Queensland Government

AMENDED IN RED
By: Mahima Reshamwala
Date: 10/07/2026
Queensland Government



DATUM R.L.4.000

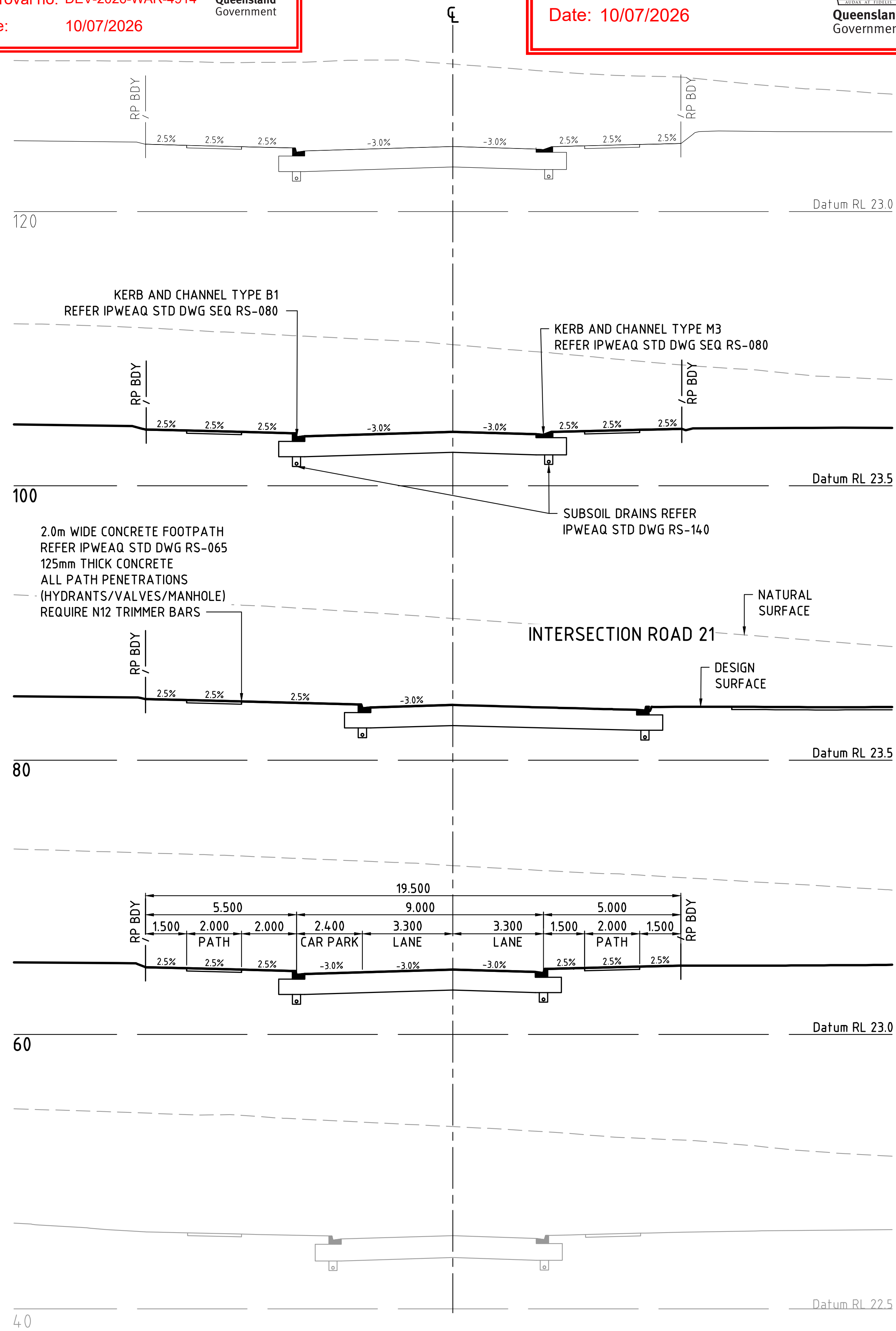
PEGGED CHAINAGE	0.000	12.000	20.000	21.000	28.000	35.000	40.000	41.534	60.000	64.907	79.907	80.000	85.976	94.907	100.000	101.829	119.294
LIP OF KERB LHS	EXISTING INTERSECTION								25.208	25.257	25.423	25.423	25.429	25.404	25.307	25.298	25.210
LIP OF KERB RHS									25.280	25.329	25.978	25.979	25.992	25.985	25.378	25.369	25.281
NATURAL SURFACE	28.516	28.870	28.961	28.975	29.010	29.104	29.145	29.152	29.159	29.087	28.668	28.665	28.541	28.571	28.645	28.664	28.384
CUT/FILL DEPTH	-3.156	-3.570	-3.820	-3.855	-3.925	-3.984	-3.975	-3.966	-3.789	-3.667	-3.155	-3.152	-3.022	-3.077	-3.176	-3.204	-3.012
DESIGN SURFACE	25.360	25.300	25.140	25.120	25.085	25.120	25.170	25.185	25.370	25.419	25.513	25.513	25.519	25.494	25.469	25.460	25.372

PEGGED CHAINAGE	120.000	138.000	140.000	140.861	145.153	158.000	160.000	164.164	168.456	178.000	180.000	194.147	200.000	205.446	220.000	222.946	239.177
LIP OF KERB LHS	25.207	25.189	FUTURE INTERSECTION							25.681	25.742	26.176	26.355	26.522	26.845	26.880	26.895
LIP OF KERB RHS	25.278	25.188								25.680	25.741	26.175	26.354	26.521	FUTURE INTERSECTION		
NATURAL SURFACE	28.371	27.010	26.782	26.707	26.383	25.700	25.633	25.339	25.038	23.844	23.502	24.041	24.447	24.879	25.382	25.421	25.464
CUT/FILL DEPTH	-3.002	-1.732	-1.512	-1.439	-1.117	-0.343	-0.248	0.114	0.501	1.947	2.351	2.245	2.019	1.753	1.574	1.571	1.542
DESIGN SURFACE	25.369	25.279	25.270	25.268	25.266	25.357	25.384	25.453	25.540	25.792	25.853	26.287	26.466	26.633	26.956	26.991	27.006

Horiz Curve Data: R.-50 / 15.853; R.-100 / 4.292; R.100 / 4.292

LONGITUDINAL SECTION - NEW ROAD 3

SCALE - 1:1000 (H)
1:100 (V)



* REFER INTERSECTION DETAILS ON KN DWG 24-277-09

CROSS SECTIONS - NEW ROAD 3

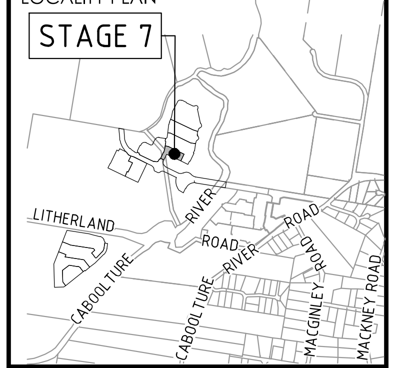
SCALE A 1:1000 (Horiz.) 10 5 0 10 20 30 40 50 60 70 80 90 100m

B 1:100 (Vert.) 1 0.5 0 1 2 3 4 5 6 7 8 9 10m

(A1 UNREDUCED)

DO NOT SCALE THIS DRAWING
IF IN DOUBT - ASK!

LOCALITY PLAN



REVISIONS

No	Description	Date	By
A	FOR APPROVAL	20.02.2026	DF
B	FOR APPROVAL	14.05.2026	DF

Client: Stockland

Project: RIVERMONT PRECINCT 2 STAGE 7

kn group
L1, 62 Astor Terrace, Spring Hill, QLD 4000
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Approved Director - RPEQ 17544
Digitally signed by Mark Shaw RPEQ 17544
Date: 2026.06.08 14:42:48+10'00'

Drawing Title: ROADWORKS LONG AND CROSS SECTIONS NEW ROAD 3

Drawn	Designed	Checked	Date
DF	JB	MAS	MAY' 26

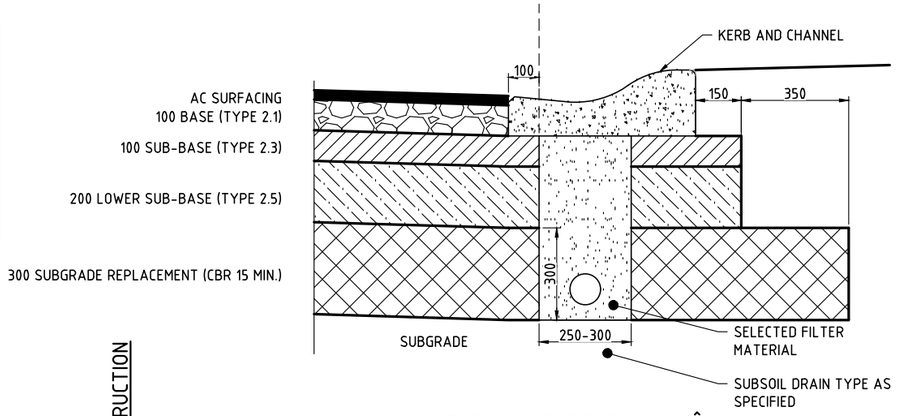
Scale: AS SHOWN | Sheet: 07 of 20

A1 | Drawing No: 24-277-07 | Revision: B

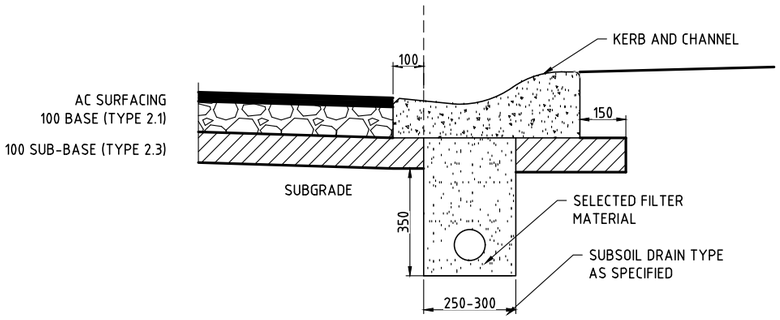
NOMINAL PAVEMENT DETAILS

LIVING RESIDENTIAL

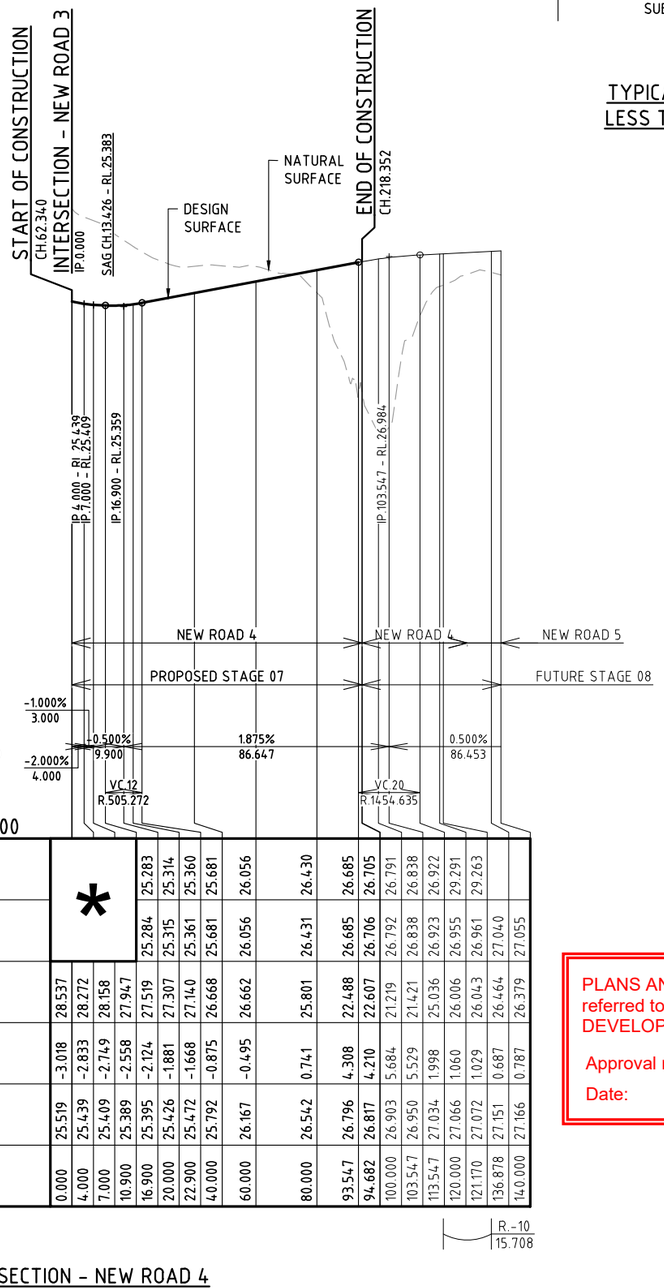
30mm ASPHALTIC CONCRETE
5mm PRIMER SEAL
100mm BASE COURSE (TYPE 2.1, CBR 80)
100mm UPPER SUB-BASE COURSE (TYPE 2.3, CBR 45)
200mm LOWER SUB-BASE COURSE (TYPE 2.5, CBR 15)
SUBGRADE REPLACEMENT 300mm (TYPE 2.5, CBR 15)
DESIGN ESA = 1.2 X 10^5



TYPICAL SECTION ROADS ESA 1.2x10^5
LESS THAN INSITU CBR 3, SWELLS >5%
SCALE 1:10



TYPICAL DETAIL SUB-SOIL DRAINAGE
GRATER THAN INSITU CBR 3
SCALE 1:10

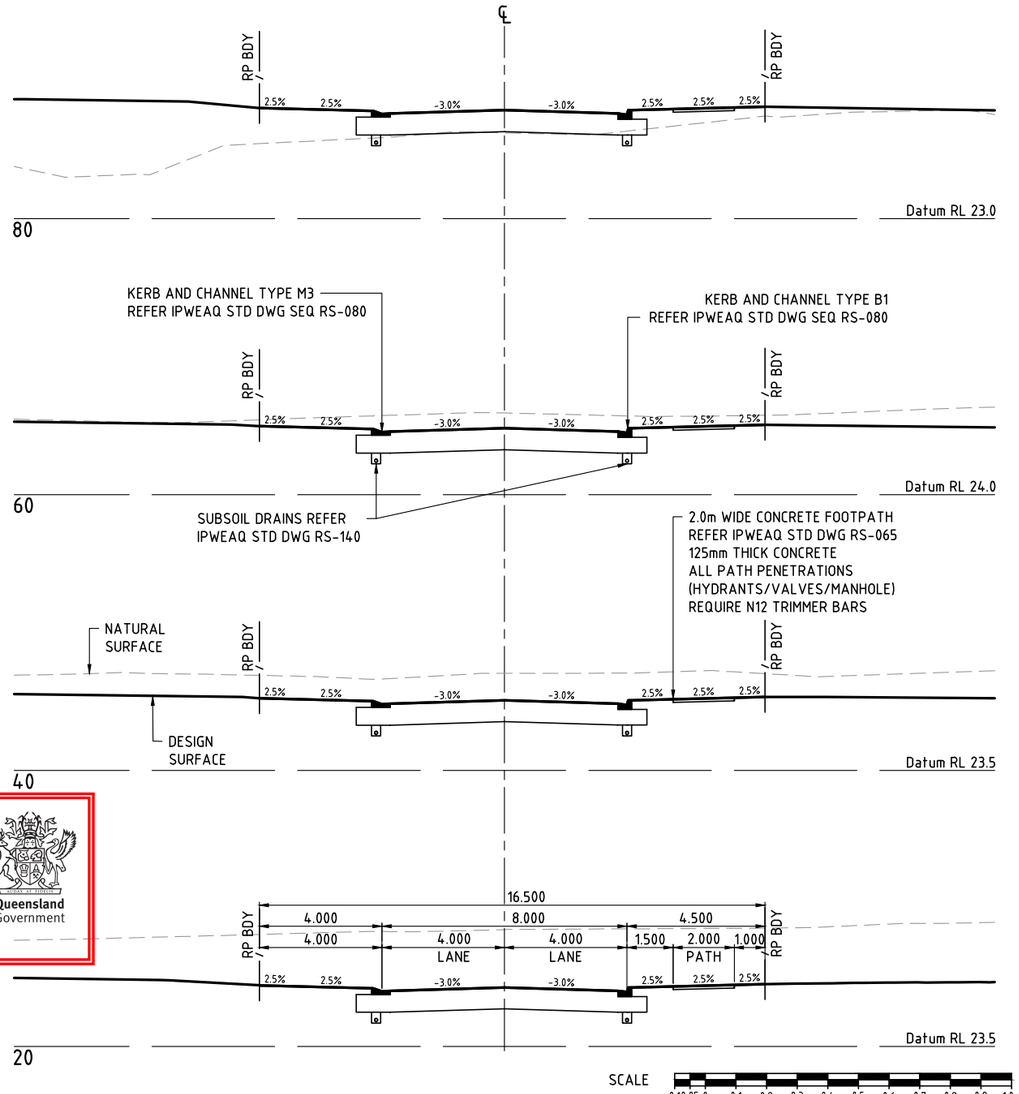


DATUM R.L.8.000

PEGGED CHAINAGE	LIP OF KERB LHS	LIP OF KERB RHS	NATURAL SURFACE	CUT/FILL DEPTH	DESIGN SURFACE
0.000	*	*	28.537	-3.018	25.519
4.000			28.272	-2.833	25.439
7.000			28.158	-2.749	25.409
10.900			27.947	-2.558	25.389
16.900	25.283	25.284	27.519	-2.124	25.395
20.000	25.314	25.315	27.307	-1.881	25.426
22.900	25.360	25.361	27.140	-1.668	25.472
40.000	25.681	25.681	26.668	-0.875	25.792
60.000	26.056	26.056	26.662	-0.495	26.167
80.000	26.430	26.431	25.801	0.741	26.542
93.547	26.685	26.685	22.488	4.308	26.796
94.682	26.705	26.706	22.607	4.210	26.817
100.000	26.791	26.792	21.219	5.684	26.903
103.547	26.838	26.838	21.421	5.529	26.950
113.547	26.922	26.923	25.036	1.998	27.034
120.000	29.291	26.955	26.006	1.060	27.066
121.170	29.263	26.961	26.043	1.029	27.072
136.878		27.040	26.464	0.687	27.151
140.000		27.055	26.379	0.787	27.166

Horiz Curve Data
R.-10
15.708

LONGITUDINAL SECTION - NEW ROAD 4
SCALE - 1:1000 (H)
1:100 (V)



CROSS SECTIONS - NEW ROAD 4
SCALE A 1:1000 (Horiz.)
B 1:100 (Vert.)
SCALE 1 : 10 (A1 UNREDUCED)
(A1 UNREDUCED)

* REFER INTERSECTION DETAILS ON KN DWG 24-277-09

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL
Approval no: DEV-2026-WAR-4914
Date: 10/07/2026
Queensland Government

DO NOT SCALE THIS DRAWING
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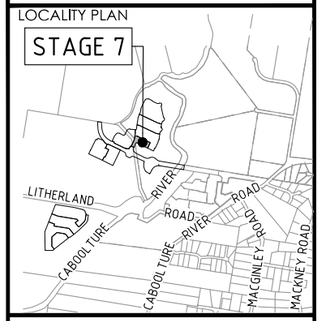
LOCALITY PLAN



REVISIONS

No	Description	Date	By
A	FOR APPROVAL	20.02.2026	DF
B	FOR APPROVAL	14.05.2026	DF

Client
Stockland

Project
RIVERMONT
PRECINCT 2
STAGE 7

kn group
L1. 62 Astor Terrace, Spring Hill, QLD 4000
www.kngroup.com.au | 07 3017 1900

Approved Director - RPEQ 17544
Digitally signed by Mark Shaw RPEQ 17544
Date: 2026.06.08 14:42:48+10'00'

Drawing Title
ROADWORKS
LONG AND CROSS SECTIONS
NEW ROAD 4 & 5

Drawn	Designed	Checked	Date
DF	JB	MAS	MAY' 26

Scale	Sheet
AS SHOWN	08 of 20

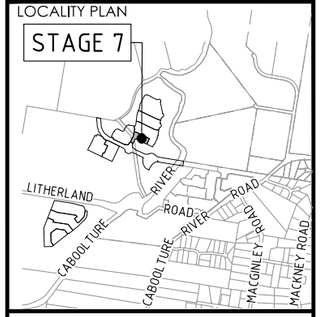
A1	Drawing No	Revision
	24-277-08	B

M:\2024\24-277 Rivermont P2 Stage 7\Engineering\Acad\24-277-07-08-RD-LONG-CROSS.dwg Plotted by: AL on 8/06/2026 11:27:00 AM

DO NOT SCALE THIS DRAWING
IF IN DOUBT - ASK!

NORTH

LOCALITY PLAN



REVISIONS

No	Description	Date	By
A	FOR APPROVAL	20.02.2026	DF
B	FOR APPROVAL	14.05.2026	DF

LEGEND

- STAGE BOUNDARY
- PROPOSED ROAD CENTRELINE
- M3 MOUNTABLE KERB AND CHANNEL
- B1 BARRIER KERB AND CHANNEL (300)
- B2 BARRIER KERB
- FINISHED SURFACE CONTOURS (36.0)
- OFFSET TO KERB FACE (3.000)
- DJ — DOWEL JOINT
- CJ — SAW CUT JOINT (C.J.)

DRIVEWAY SETOUT AND LEVELS ONLY CONSTRUCTED IN ACCORDANCE WITH IPWEAQ STANDARD DWG RS-051.

SETOUT TABLE

PT No.	EASTING	NORTHING	LEVEL
25	8657.129	11870.371	25.401
26	8655.316	11873.152	25.316
27	8656.272	11879.477	25.282
28	8657.055	11885.426	25.252
29	8657.838	11891.374	25.222
30	8658.147	11893.716	25.210

SETOUT TABLE

PT No.	EASTING	NORTHING	LEVEL
7	8663.366	11870.500	25.392
8	8663.178	11867.066	25.387
9	8664.134	11863.763	25.346
10	8666.127	11860.960	25.301
11	8668.934	11858.972	25.274

SETOUT TABLE

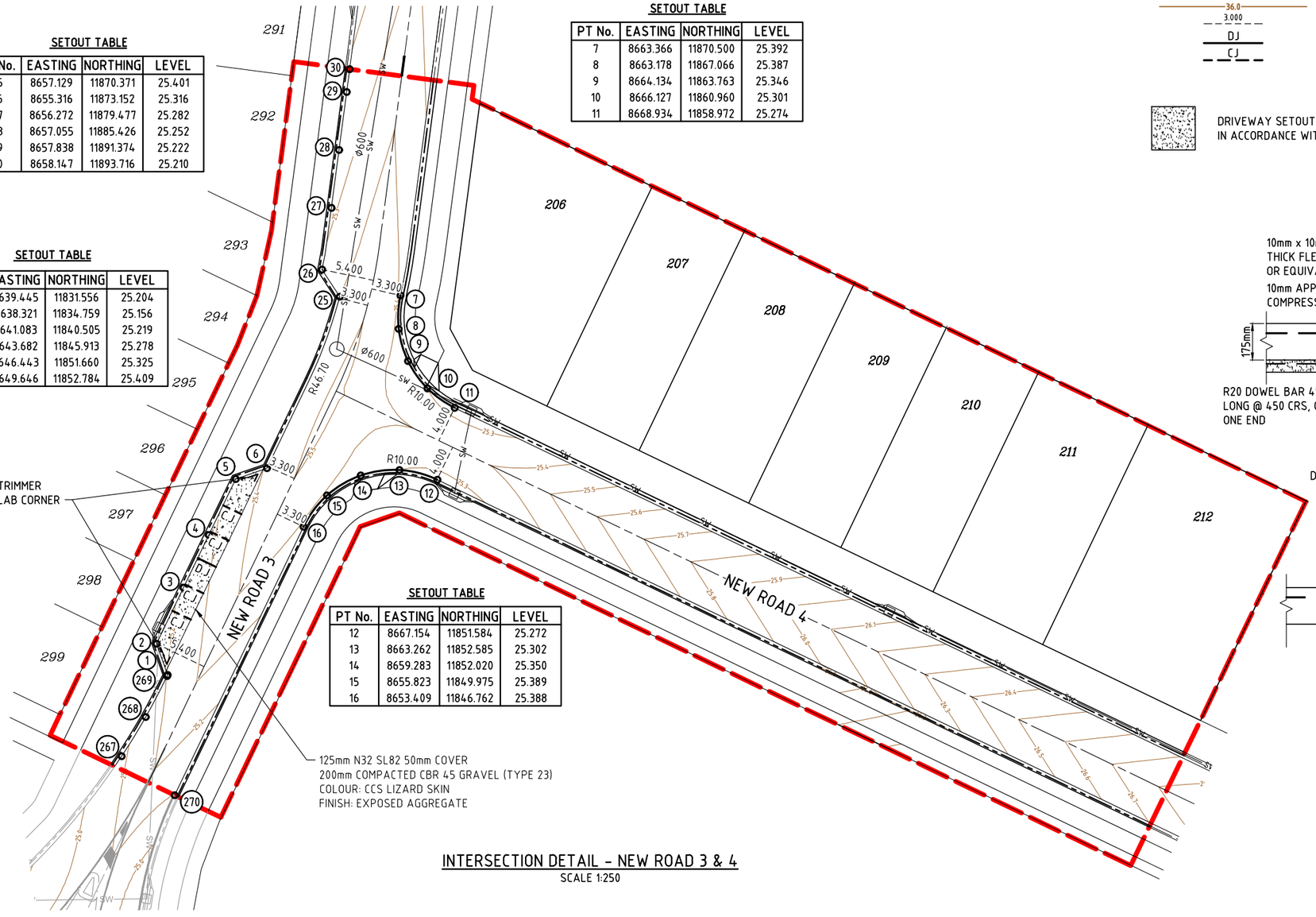
PT No.	EASTING	NORTHING	LEVEL
1	8639.445	11831.556	25.204
2	8638.321	11834.759	25.156
3	8641.083	11840.505	25.219
4	8643.682	11845.913	25.278
5	8646.443	11851.660	25.325
6	8649.646	11852.784	25.409

SETOUT TABLE

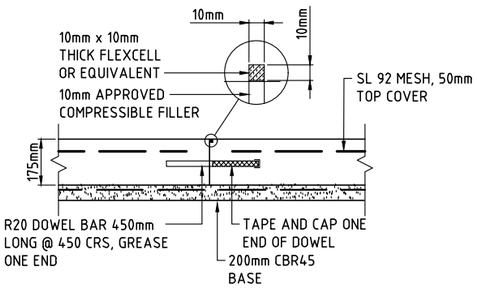
PT No.	EASTING	NORTHING	LEVEL
12	8667.154	11851.584	25.272
13	8663.262	11852.585	25.302
14	8659.283	11852.020	25.350
15	8655.823	11849.975	25.389
16	8653.409	11846.762	25.388

SETOUT TABLE

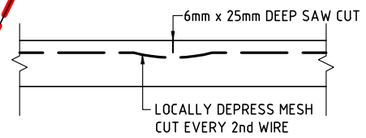
PT No.	EASTING	NORTHING	LEVEL
267	8634.728	11823.210	25.082
268	8637.198	11827.248	25.142
269	8639.391	11831.444	25.202
270	8640.170	11819.212	25.095



INTERSECTION DETAIL - NEW ROAD 3 & 4
SCALE 1:250



DOWEL JOINT
DENOTED 'DJ' ON PLAN
SCALE 1:10



CUT JOINT
DENOTED 'CJ' ON PLAN
SCALE 1:10

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

Approval no: DEV-2026-WAR-4914

Date: 10/07/2026

Queensland Government

SCALE 5 0 5 10 15 20 25m
1 : 250 (A1 UNREDUCED)

Client: Stockland

Project: RIVERMONT PRECINCT 2 STAGE 7

kn group
L1, 62 Astor Terrace, Spring Hill, QLD 4000
www.kngroup.com.au | 07 3017 1900

Approved Director - RPEQ 17544
Digitally signed by Mark Shaw RPEQ 17544
Date: 2026.06.08 14:42:48+10'00'

Drawing Title: ROADWORKS INTERSECTION DETAILS

Drawn	Designed	Checked	Date
DF	JB	MAS	MAY' 26

Scale	Sheet
AS SHOWN	09 of 20

A1	Drawing No	Revision
	24-277-09	B

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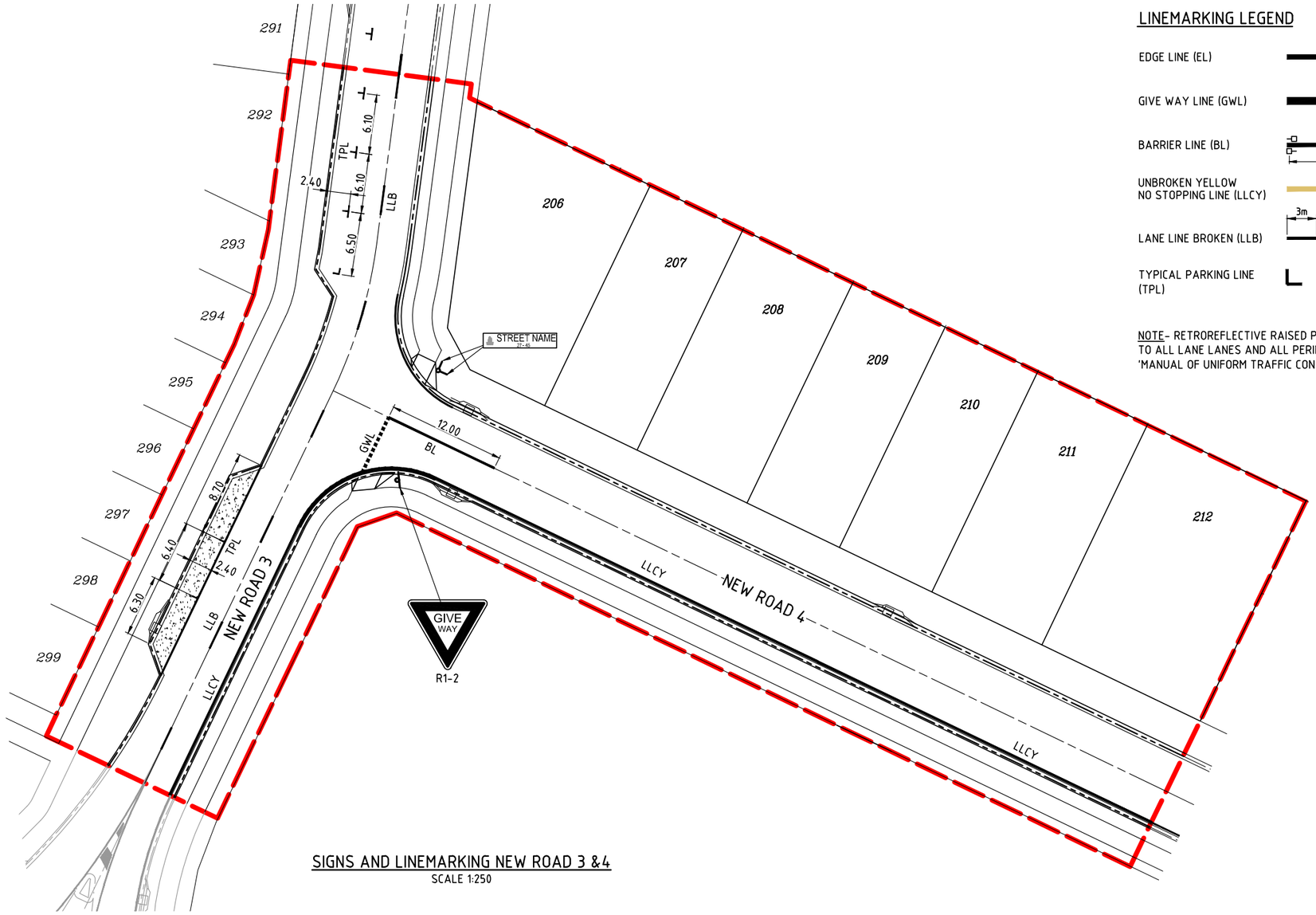
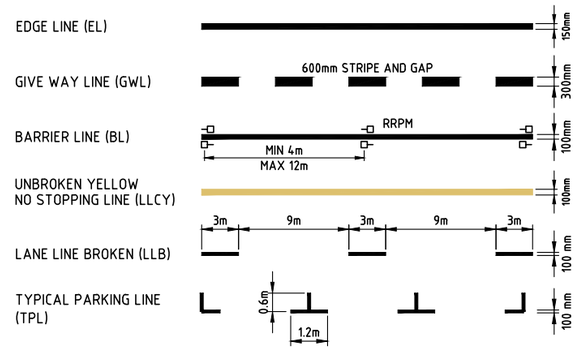


SIGNS AND LINEMARKING NEW ROAD 3 &4
SCALE 1:250

LEGEND

- STAGE BOUNDARY
- PROPOSED ROAD CENTRELINE
- M3 MOUNTABLE KERB AND CHANNEL
- B1 BARRIER KERB AND CHANNEL (300)
- B2 BARRIER KERB

LINEMARKING LEGEND



NOTE- RETROREFLECTIVE RAISED PAVEMENT MARKERS (RRPM'S) REQUIRED TO ALL LANE LANES AND ALL PERIMETER OF CHEVRONS AS PER MAIN ROADS 'MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES' (MUTCD).

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV-2026-WAR-4914

Date: 10/07/2026

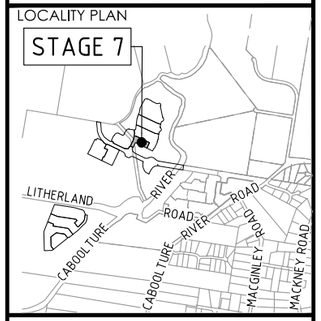
Queensland Government

SCALE 5 0 5 10 15 20 25m
1 : 250 (A1 UNREDUCED)

DO NOT SCALE THIS DRAWING
IF IN DOUBT - ASK!

NORTH

LOCALITY PLAN



REVISIONS

No	Description	Date	By
A	FOR APPROVAL	20.02.2026	DF
B	FOR APPROVAL	14.05.2026	DF

Client: Stockland

Project: RIVERMONT
PRECINCT 2
STAGE 7

kn group
L1, 62 Astor Terrace, Spring Hill, QLD 4000
www.kngroup.com.au | 07 3017 1900

Approved Director - RPEQ 17544
Digitally signed by Mark Shaw RPEQ 17544
Date: 2026.06.08 14:42:49+10'00'

Drawing Title: ROADWORKS
LINEMARKING PLAN

Drawn	Designed	Checked	Date
DF	JB	MAS	MAY' 26

Scale	Sheet
AS SHOWN	10 of 20

	Drawing No	Revision
A1	24-277-10	B

M:\2024\24-277 Rivermont P2 Stage 7\Engineering\Acad\24-277-09-10-RD_DETAILS.dwg Plotted by: AL on 8/06/2026 11:27:07 AM

CATCHMENT NO.	AREA (ha)
FI14–1	0.021
FI13–1	0.037
G11–1	0.050
G10–1	0.117
G09–1	0.133
G08–1	0.162
FI05–2	0.021
FI04–2	0.038
FI02–2	0.133
FI01–2	0.057
G05–3	0.056
G04–3	0.048
G03–3	0.146
G02–3	0.147
G01–3	0.122
G01–4	0.164
G01–5	0.050
G01–6	0.034
G01–7	0.119
G01–3	0.122
G01–8	0.040
G01–9	0.024
G01–10	0.161
G08–1	0.162
G01–11	0.177
G10–1	0.117
FI02–12	0.032
FI01–12	0.033
G01–13	0.128
G09–1	0.133
FI10–14	0.032
FI09–14	0.052
G08–14	0.012
G07–14	0.025
G06–14	0.181
G05–14	0.197
G02–14	0.038
G02–15	0.180
G01–15	0.036
G02–14	0.038
G01–16	0.088
G02–14	0.038
FI01–17	0.066
G02–18	0.025
G01–18	0.044

CATCHMENT NO.	AREA (ha)
G01–19	0.251
G06–20	0.188
G05–20	0.052
G04–20	0.134
G03–20	0.202
G01–21	0.145
G06–14	0.181
G01–22	0.029
G01–23	0.127
G01–24	0.123
G03–20	0.202
G26–25	0.018
G25–25	0.016
G24–25	0.017
G23–25	0.016
G22–25	0.016
G21–25	0.016
G20–25	0.016
G19–25	0.016
G18–25	0.012
FI14–26	0.070
FI13–26	0.052
G12–26	0.156
FI10–26	0.051
FI09–26	0.048
FI08–26	0.056
FI07–26	0.006
FI05–26	0.056
FI04–26	0.038
FI03–26	0.054
G06–27	0.104
G04–27	0.134
G03–27	0.181
G02–27	0.112
G01–27	0.021
G02–28	0.039
G01–28	0.039
G02–29	0.145
G01–29	0.150
G02–30	0.147
G01–30	0.070
G01–31	0.099
G01–32	0.048
G01–33	0.058
G01–34	0.053

CATCHMENT NO.	AREA (ha)
G05–35	0.158
G04–35	0.042
G01–36	0.062
G01–38	0.136
FI04–39	0.027
FI03–39	0.058
FI02–39	0.069
FI01–39	0.038
G03–40	0.129
G02–40	0.107
G01–40	0.110
G03–41	0.059
G02–41	0.044
G01–41	0.051
G02–42	0.061
G01–42	0.108
G01–43	0.112
G02–42	0.061
FI01–44	2.559
G01–45	0.082
G01–46	0.132
FI01–47	0.312
G01–48	0.137
G01–49	0.106
IN4–50	0.134
3.5	0.326
G01–50	0.081
IN2–51	0.135
G01–51	0.030
G04–52	0.017
G03–52	0.034
G02–52	0.036
FI01–52	0.052
G04–53	0.035
G03–53	0.025
G02–53	0.034
G01–53	0.030
G04–54	0.016
G03–54	0.034
G02–54	0.031
FI01–54	0.051
G04–55	0.033
G03–55	0.035
G02–55	0.034
G01–55	0.034

CATCHMENT NO.	AREA (ha)
G05–56	0.036
G04–56	0.037
G03–56	0.037
G02–56	0.034
FI01–56	0.051
G05–57	0.021
G04–57	0.016
G03–57	0.019
G02–57	0.019
G01–57	0.019
FI04–58	3.159
G07–59	0.023
G06–59	0.037
G05–59	0.036
G04–59	0.036
G03–59	0.036
G02–59	0.037
FI01–59	0.037
FI01–61	0.052
G25–25	0.016
G01–62	0.190
G01–27	0.021
FI02–63	9.038
FI03–64	0.101
FI02–64	0.019
FI01–64	0.023
FI03–65	0.111
FI02–65	0.014
FI01–65	0.018
G01–66	0.075
G01–67	0.127
G01–69	0.039
G03–27	0.181

CATCHMENT NO.	AREA (ha)
FI04–77	0.050
FI03–77	0.017
FI02–77	0.019
G01–50	0.081
G01–78	0.025
G01–79	0.032
G01–80	0.116
G01–81	0.014
G01–82	0.450
FI01–65	0.018
G01–86	0.037
G04–27	0.134
FI02–83	0.150
FI02–84	0.492
FI03–85	0.205
G01–70	0.128
G02–3	0.147
G01–71	0.197
G03–3	0.146
G01–72	0.040
G11–1	0.050
G01–73	0.099
G07–14	0.025
G02–74	0.206
G01–74	0.144
G01–75	0.185
G01–76	0.029

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV-2026-WAR-4914

Date: 10/07/2026

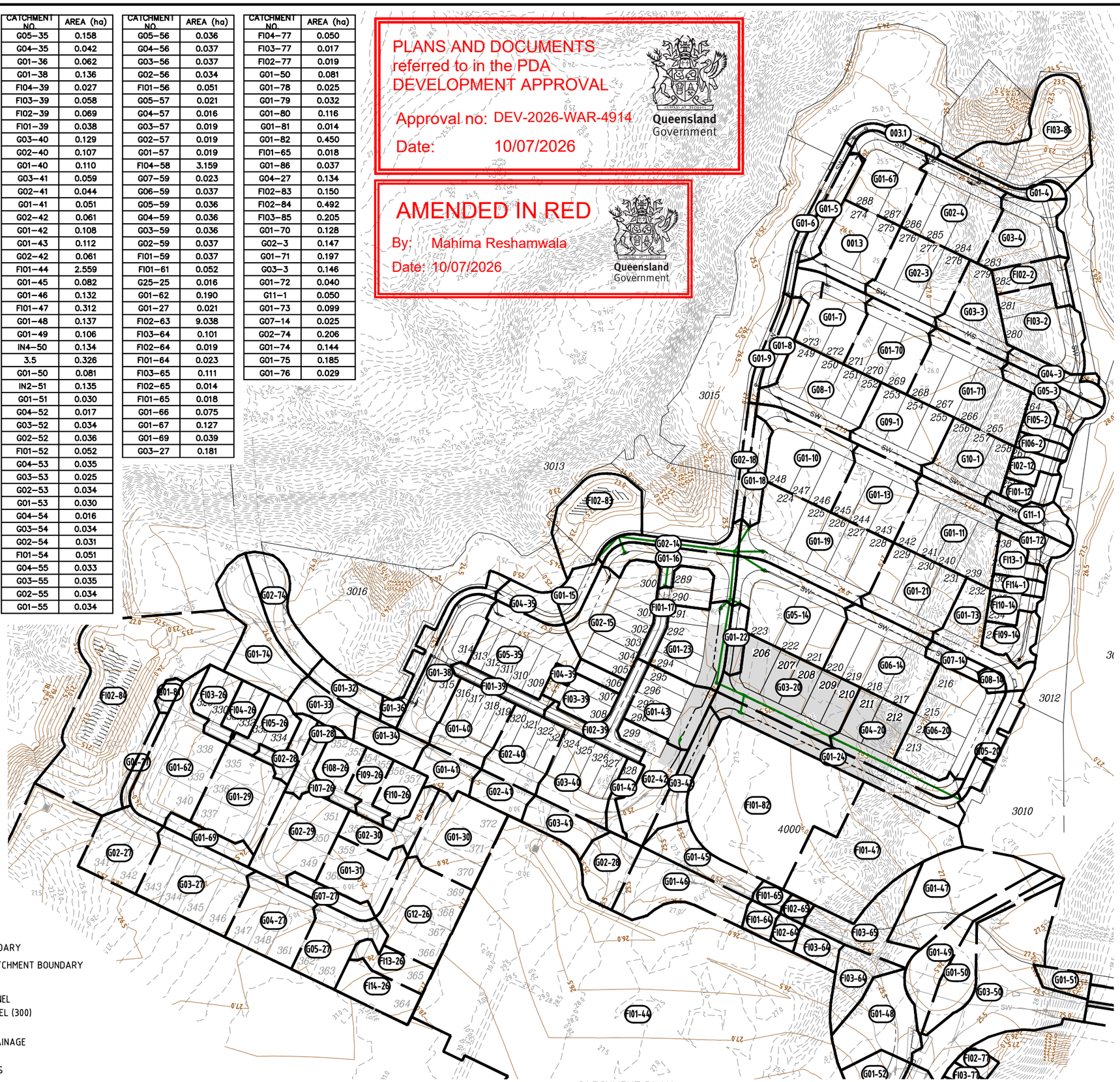
Queensland Government

AMENDED IN RED

By: Mahima Reshamwala

Date: 10/07/2026

Queensland Government



CATCHMENT PLAN
SCALE 1:1000

SCALE
10 5 0 10 20 30 40 50 60 70 80 90 100m
1 : 1000 (A1 UNREDUCED)

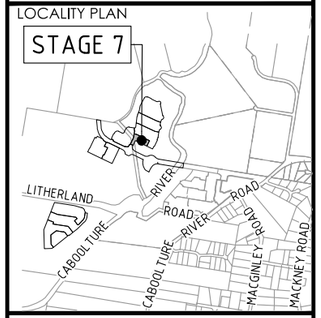
LEGEND

- PROPOSED CATCHMENT BOUNDARY
- EXTERNAL CONTRIBUTING CATCHMENT BOUNDARY
- 506 CATCHMENT NUMBER
- M3 MOUNTABLE KERB AND CHANNEL
- B1 BARRIER KERB AND CHANNEL (300)
- B2 BARRIER KERB
- PROPOSED STORMWATER DRAINAGE
- 36.0 FINISHED SURFACE CONTOURS
- -36.0- NATURAL SURFACE CONTOURS

DO NOT SCALE THIS DRAWING
IF IN DOUBT - ASK!

NORTH

LOCALITY PLAN



REVISIONS

No	Description	Date	By
A	FOR APPROVAL	20.02.2026	DF
B	FOR APPROVAL	14.05.2026	DF

Client: Stockland

Project:
RIVERMONT
PRECINCT 2
STAGE 7

kn group
L1, 62 Astor Terrace, Spring Hill, QLD 4000
www.kngroup.com.au | 07 3017 1900

Approved Director - RPEQ 17544
M. Shaw
Digitally signed by Mark Shaw RPEQ 17544
Date: 2026.06.08 14:42:49+10'00'

Drawing Title:
STORMWATER
CATCHMENT PLAN

Drawn	Designed	Checked	Date
DF	AL	MAS	MAY' 26

Scale	Sheet
AS SHOWN	11 of 20

A1	Drawing No	Revision
	24-277-11	B

M:\2024\24-277 Rivermont P2 Stage 7\Engineering\Acad\24-277-11-CATCHMENT.dwg Plotted by: AL on 8/06/2026 11:26:44 AM

STRUCTURE NAME
STRUCTURE DESCRIPTION

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

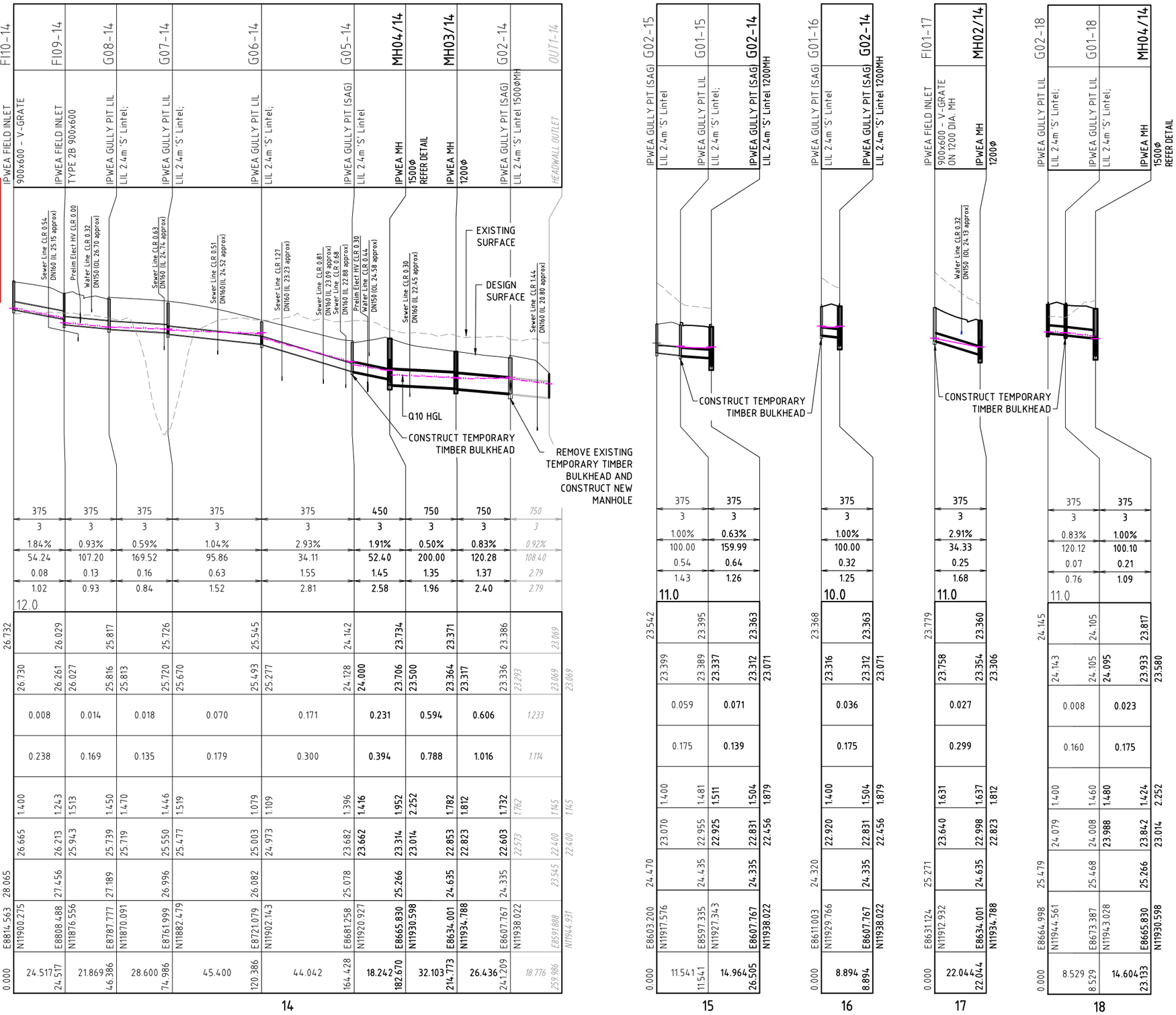
Approval no: DEV-2026-WAR-4914

Date: 10/07/2026

Queensland Government

NOTE:

F1512 CONTRACTOR TO PROVIDE FORM 15 AND 12 FOR ALL MAINTENANCE HOLES GREATER THAN 3m DEPTH.



PIPE SIZE (mm)									
PIPE CLASS									
PIPE GRADE %	375	375	375	375	375	450	750	750	750
PIPE SLOPE 1 in X	3	3	3	3	3	3	3	3	3
FULL PIPE FLOW VELOCITY (m/s)	1.84%	0.93%	0.59%	1.04%	2.93%	1.91%	0.50%	0.83%	0.92%
PART FULL FLOW VELOCITY (m/s)	54.24	107.20	169.52	95.86	34.11	52.40	200.00	120.28	108.40
DATUM RL.	0.08	0.13	0.16	0.63	1.55	1.45	1.35	1.37	2.79
	1.02	0.93	0.84	1.52	2.81	2.58	1.96	2.40	2.79
	12.0								
WATER LEVEL IN STRUCTURE	26.732								
HYDRAULIC GRADE LEVEL	26.730	26.029	25.817	25.726	25.545	24.142	23.734	23.371	23.069
PIPE FLOW (Cumecs)	26.730	26.261	26.027	25.816	25.720	25.670	25.493	25.277	24.128	24.000	23.706	23.500	23.364	23.317	23.336	23.293	23.069
PIPE CAPACITY AT GRADE (Cumecs)	0.008	0.014	0.018	0.070	0.171	0.231	0.594	0.606	1.233
DEPTH TO INVERT	0.238	0.169	0.135	0.179	0.300	0.394	0.788	1.016	1.114
INVERT LEVEL OF DRAIN	1.400	1.243	1.513	1.450	1.470	1.446	1.519	1.079	1.109	1.396	1.416	1.952	2.252	1.782	1.812	1.732	1.762	1.145	1.145
SETOUT CO-ORDINATE	26.665	26.213	25.943	25.739	25.719	25.550	25.477	25.003	24.973	23.682	23.662	23.314	23.014	22.853	22.823	22.603	22.573	22.400	22.400
	28.065	27.456	27.189	26.996	26.082	25.078	25.266	24.635	24.335	23.545
	E8814.563 N11900.275	E8808.488 N11876.556	E8787.777 N11870.091	E8761.999 N11882.479	E8721.079 N11902.143	E8681.258 N11920.927	E8665.830 N11930.598	E8634.001 N11934.788	E8607.767 N11938.022	E8591.888 N11944.931
RUNNING CHAINAGE	0.000 24.517 24.517	21.869 46.386	28.600 74.986	45.400 120.386	44.042 164.428	18.242 182.670	32.103 214.773	26.436 241.209	18.776 259.986

14

	375	375	
	3	3	
	1.00%	0.63%	
	100.00	159.99	
	0.54	0.64	
	1.43	1.26	
	11.0		
23.542			
	23.399	23.389	23.337	23.312	23.071
	0.059	0.071	
	0.175	0.139	
	1.400	1.481	1.511	1.504	1.879
24.470	23.070	22.955	22.925	22.831	22.456
	24.435	24.335
	E8603.200 N11917.576	E8597.335 N11927.343	E8607.767 N11938.022
0.000	11.541 11.541	14.964 26.505

15

	375	
	3	
	1.00%	
	100.00	
	0.32	
	1.25	
	10.0	
23.368		
	23.316	23.312	23.071
	0.036	
	0.175	
	1.400	1.504	1.879
24.320	22.920	22.831	22.456
	24.335
	E8611.003 N11929.766	E8607.767 N11938.022
0.000	8.894 8.894

16

	375	
	3	
	2.91%	
	34.33	
	0.25	
	1.68	
	11.0	
23.779		
	23.758	23.354	23.306
	0.027	
	0.299	
	1.631	1.637	1.812
25.271	23.640	22.998	22.823
	24.635
	E8631.124 N11912.932	E8634.001 N11934.788
0.000	22.044 22.044

17

	375	375	
	3	3	
	0.83%	1.00%	
	120.12	100.10	
	0.07	0.21	
	0.76	1.09	
	11.0		
24.145			
	24.143	24.105	23.817	23.580
	0.008	0.023	
	0.160	0.175	
	1.400	1.460	1.480	1.424	2.252
25.479	24.079	24.008	23.988	23.842	23.014
	25.468	25.266
	E8664.998 N11944.561	E8673.387 N11943.028	E8665.830 N11930.598
0.000	8.529 8.529	14.604 23.133

18

SCALE A 1:1000 (Horiz.) 10 5 0 10 20 30 40 50 60 70 80 90 100m

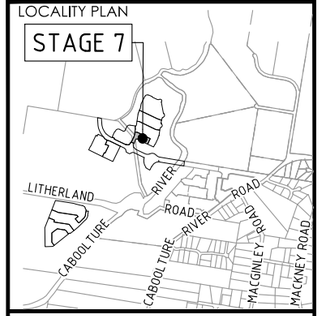
B 1:100 (Vert.) 1 0.5 0 1 2 3 4 5 6 7 8 9 10m

(A1 UNREDUCED)

DO NOT SCALE THIS DRAWING
IF IN DOUBT - ASK!

NORTH

LOCALITY PLAN



REVISIONS

No	Description	Date	By
A	FOR APPROVAL	20.02.2026	DF
B	FOR APPROVAL	14.05.2026	DF

Client: Stockland

Project: RIVERMONT PRECINCT 2 STAGE 7

kn group
L1. 62 Astor Terrace, Spring Hill, QLD 4000
www.kngroup.com.au | 07 3017 1900

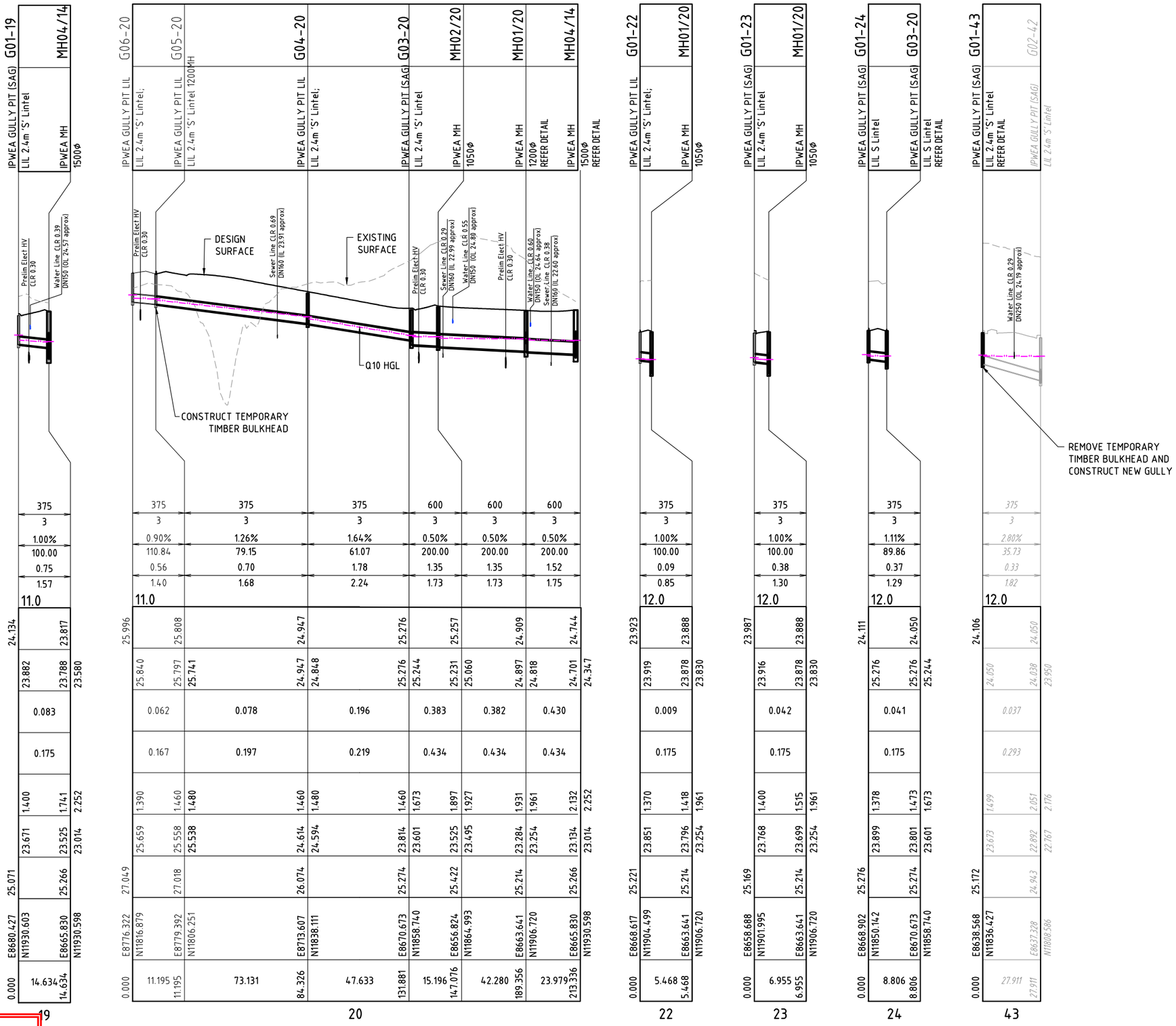
Approved Director - RPEQ 17544
Digitally signed by Mark Shaw RPEQ 17544
Date: 2026.06.08 14:42:49+10'00'

Drawing Title: STORMWATER LONG SECTIONS

Drawn	Designed	Checked	Date
DF	AL	MAS	MAY' 26
Scale: AS SHOWN			Sheet: 12 of 20
A1	Drawing No: 24-277-12		Revision: B

M:\2024\24-277 Rivermont P2 Stage 7\Engineering\Acad\24-277-12-13-SW-LS.dwg Plotted by: AL on 8/06/2026 11:27:11 AM

STRUCTURE NAME	
STRUCTURE DESCRIPTION	



	19		20						22	23	24	43	
PIPE SIZE (mm)	375	375	375	375	600	600	600		375	375	375	375	
PIPE CLASS	3	3	3	3	3	3	3		3	3	3	3	
PIPE GRADE %	1.00%	0.90%	1.26%	1.64%	0.50%	0.50%	0.50%		1.00%	1.00%	1.11%	2.80%	
PIPE SLOPE 1 in X	100.00	110.84	79.15	61.07	200.00	200.00	200.00		100.00	100.00	89.86	35.73	
FULL PIPE FLOW VELOCITY (m/s)	0.75	0.56	0.70	1.78	1.35	1.35	1.52		0.09	0.38	0.37	0.33	
PART FULL FLOW VELOCITY (m/s)	1.57	1.40	1.68	2.24	1.73	1.73	1.75		0.85	1.30	1.29	1.82	
DATUM RL.	11.0	11.0							12.0	12.0	12.0	12.0	
WATER LEVEL IN STRUCTURE	24.134	25.996	25.808	24.947	25.276	25.257	24.909	24.744	23.923	23.888	23.987	23.888	24.111	24.050	24.106	24.050	
HYDRAULIC GRADE LEVEL	23.882	23.788	25.840	25.797	25.741	24.947	24.848	25.276	25.244	25.231	25.060	24.897	24.818	24.701	24.347	23.919	23.878	23.830	23.916	23.878	23.830	25.276	25.276	25.244	24.050	24.038	23.950
PIPE FLOW (Cumecs)	0.083	0.062	0.078	0.196	0.383	0.382	0.430		0.009	0.042	0.041	0.037	
PIPE CAPACITY AT GRADE (Cumecs)	0.175	0.167	0.197	0.219	0.434	0.434	0.434		0.175	0.175	0.175	0.293	
DEPTH TO INVERT	1.400	1.741	2.252	1.390	1.460	1.480	1.460	1.480	1.460	1.673	1.897	1.927	1.931	1.961	2.132	2.252	1.370	1.418	1.961	1.400	1.515	1.961	1.378	1.473	1.673	1.499	2.051	2.176
INVERT LEVEL OF DRAIN	23.671	23.525	23.014	25.659	25.558	25.538	24.614	24.594	23.814	23.601	23.525	23.495	23.284	23.254	23.134	23.014	23.851	23.796	23.254	23.768	23.699	23.254	23.899	23.801	23.601	23.673	22.892	22.767
DESIGN SURFACE LEVEL	25.071	25.266	27.049	27.018	26.074	25.274	25.422	25.214	25.266	25.221	25.214	25.169	25.214	25.276	25.214	25.172	24.943
SETOUT CO-ORDINATE	E8680.427 N11930.603	E8665.830 N11930.598	E8776.322 N11816.879	E8779.392 N11806.251	E8713.607 N11838.111	E8670.673 N11858.740	E8656.824 N11864.993	E8663.641 N11906.720	E8665.830 N11930.598	E8668.617 N11904.499	E8663.641 N11906.720	E8658.688 N11901.995	E8663.641 N11906.720	E8668.902 N11850.142	E8670.673 N11858.740	E8638.568 N11836.427	E8637.328 N11808.586
RUNNING CHAINAGE	0.000 14.634 14.634	0.000 11.195 11.195	73.131	84.326	47.633	131.881	15.196	147.076	42.280	189.356	23.979	213.336	0.000 5.468 5.468	0.000 6.955 6.955	0.000 8.806 8.806	0.000 27.911 27.911

NOTE:

F1512 CONTRACTOR TO PROVIDE FORM 15 AND 12 FOR ALL MAINTENANCE HOLES GREATER THAN 3m DEPTH.

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

Approval no: DEV-2026-WAR-4914

Date: 10/07/2026

Queensland Government

SCALE A 1:1000 (Horiz.) 10 5 0 10 20 30 40 50 60 70 80 90 100m

B 1:100 (Vert.) 1 0.5 0 1 2 3 4 5 6 7 8 9 10m

(A1 UNREDUCED)

M:\2024\24-277 Rivermont P2 Stage 7\Engineering\Acad\24-277-12-13-SW-LS.dwg Plotted by: AL on 8/06/2026 11:26:51 AM

DO NOT SCALE THIS DRAWING
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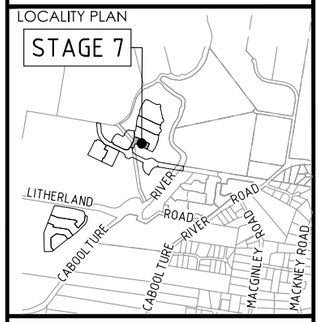
NORTH

LOCALITY PLAN



REVISIONS

No	Description	Date	By
A	FOR APPROVAL	20.02.2026	DF
B	FOR APPROVAL	14.05.2026	DF

Client

Stockland

Project

RIVERMONT
PRECINCT 2
STAGE 7

kn group
L1, 62 Astor Terrace, Spring Hill, QLD 4000
www.kngroup.com.au | 07 3017 1900

Approved Director - RPEQ 17544
Digitally signed by Mark Shaw RPEQ 17544
Date: 2026.06.08 14:42:50+10'00'

Drawing Title

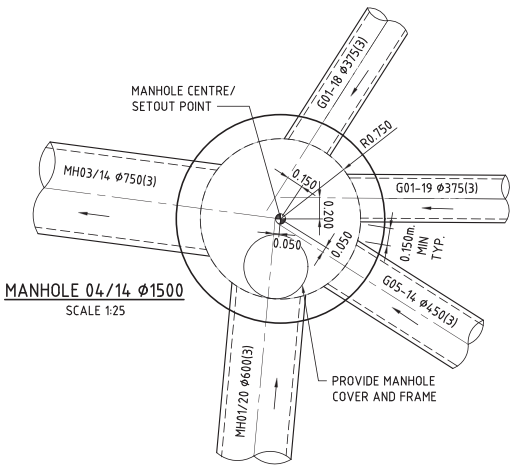
STORMWATER
LONG SECTIONS

Drawn	Designed	Checked	Date
DF	AL	MAS	MAY' 26

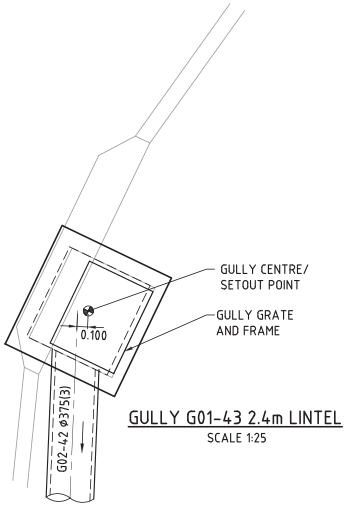
Scale	Sheet
AS SHOWN	13 of 20

	Drawing No	Revision
A1	24-277-13	B

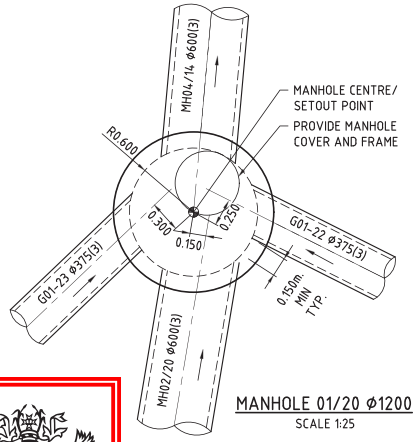
Refer to Stormwater Manhole / Pit Roof Water Connections condition.



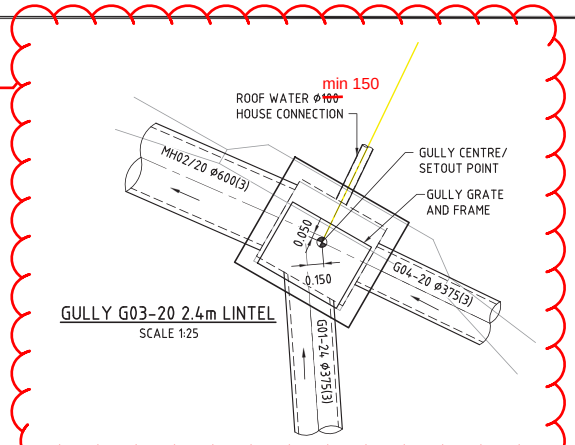
MANHOLE 04/14 ø1500
SCALE 1:25



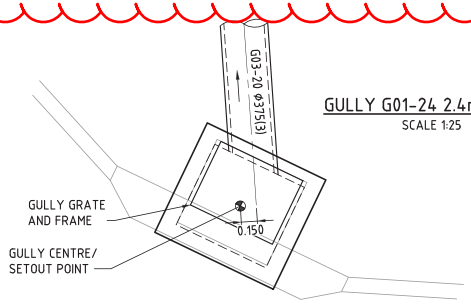
GULLY G01-43 2.4m LINTEL
SCALE 1:25



MANHOLE 01/20 ø1200
SCALE 1:25



GULLY G03-20 2.4m LINTEL
SCALE 1:25



GULLY G01-24 2.4m LINTEL
SCALE 1:25

CONSTRUCTION EQUIPMENT	PIPE CLASS	MINIMUM COMPACTION COVER TO PIPE OBVERT								
		375ø	450ø	525ø	600ø	675ø	750ø	825ø	900ø	1050ø–1500ø
VIBRATORY RAMMER (UP TO 75kg)	2	0.450	0.400	0.400	0.350	0.350	0.300	0.300	0.250	0.250
	3	0.300	0.300	0.3000	0.250	0.250	0.200	0.200	0.200	0.200
VIBRATORY TRENCH ROLLER (UP TO 2t)	2	0.400	0.400	0.350	0.250	0.250	0.200	0.200	0.200	0.200
	3	0.250	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200
VIBRATORY SMOOTH DRUM (UP TO 7t)	2	0.700	0.700	0.650	0.650	0.650	0.600	0.600	0.400	0.400
	3	0.450	0.450	0.450	0.350	0.350	0.200	0.200	0.200	0.200
VIBRATORY SMOOTH DRUM (UP TO 10t)	2	0.850	0.850	0.800	0.800	0.800	0.750	0.750	0.750	0.750
	3	0.550	0.550	0.500	0.500	0.500	0.200	0.200	0.200	0.200
EXCAVATOR & COMPACTION WHEEL (15t)	2	0.700	0.650	0.650	0.650	0.650	0.600	0.600	0.550	0.550
	3	0.450	0.450	0.450	0.450	0.450	0.350	0.350	0.250	0.250
EXCAVATOR & COMPACTION WHEEL (25t)	2	1.050	1.000	0.950	0.900	0.900	0.850	0.850	0.750	0.750
	3	0.650	0.650	0.650	0.650	0.650	0.600	0.600	0.500	0.500
GRADER (CAT120H) (14.5t)	2	0.600	0.600	0.450	0.200	0.200	0.200	0.200	0.200	0.200
	3	0.600	0.450	0.450	0.200	0.200	0.200	0.200	0.200	0.200
GRADER (CAT140H) (17.0t)	2	0.600	0.600	0.600	0.200	0.200	0.200	0.200	0.200	0.200
	3	0.600	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200
SCRAPER (CAT613C11) (27.2t)	2	0.600	0.600	0.600	0.600	0.600	0.600	0.600	0.200	0.200
	3	0.600	0.600	0.600	0.600	0.600	0.200	0.200	0.200	0.200
SCRAPER (CAT621F) (53.8t)	2	0.700	0.700	0.650	0.650	0.600	0.600	0.600	0.600	0.600
	3	0.650	0.650	0.600	0.600	0.600	0.600	0.600	0.600	0.600
DOZER (CATD7 G)	2	0.600	0.600	0.600	0.200	0.200	0.200	0.200	0.200	0.200
	3	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200
DOZER (CATD9 R)	2	0.600	0.600	0.600	0.600	0.600	0.600	0.600	0.600	0.200
	3	0.600	0.600	0.600	0.600	0.600	0.200	0.200	0.200	0.200
EXCAVATOR (CAT315B) (15.8t)	2	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200
	3	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200
EXCAVATOR (CAT317) (17.3t)	2	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200
	3	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200
EXCAVATOR (CAT325B) (25.9t)	2	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200
	3	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200

SCALE
0.5 0 0.5 1.0 1.5 2.0 2.5m
1 : 25 (A1 UNREDUCED)

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

Approval no: DEV-2026-WAR-4914

Date: 10/07/2026

Queensland Government

AMENDED IN RED

By: Mahima Reshamwala

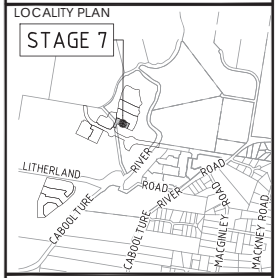
Date: 10/07/2026

Queensland Government

DO NOT SCALE THIS DRAWING
IF IN DOUBT - ASK!

NORTH

LOCALITY PLAN



REVISIONS

No	Description	Date	By
A	FOR APPROVAL	20.02.2026	DF

Client

Stockland

Project

RIVERMONT
PRECINCT 2
STAGE 7

kn group
L1, 62 Astor Terrace, Spring Hill, QLD 4000
www.kngroup.com.au | 07 3017 1900

Approved Director - RPEQ 17544

M. Shaw

Digitally signed by Mark Shaw RPEQ 17544
Date: 2026.02.23 12:37:11+10'00'

Drawing Title

STORMWATER
MANHOLE DETAILS

Drawn	Designed	Checked	Date
DF	AL	MAS	JAN' 26

Scale	Sheet
AS SHOWN	14 of

	Drawing No	Revision
A1	24-277-14	A

M:\2024\24-277 Rivermont P2 Stage 7\Engineering\Acad\24-277-14-SW-MH.dwg Plotted by: DF on 20/02/2026 7:56:17 PM

CALCULATIONS TABLE

LOCATION			TIME		SUB-CATCHMENT RUNOFF					INLET DESIGN					DRAIN DESIGN										HEADLOSSES									PART FULL		DESIGN LEVELS						
			tc	I	C	A	C•A	ΣC•A	Q				INLET DESIGN	Qg	Qb		tc	I	ΣC•A	Qf	Qm	Qs	Qp	L	S		V	T			V2/2g	Ku	hu	Kl	hl	Kw	hw	sF	HF		vP						
DESIGN ARI	STRUCTURE No.	DRAIN SECTION	SUB-CATCHMENT TIME OF CONCENTRATION	RAINFALL INTENSITY	COEFFICIENT OF RUNOFF	SUB-CATCHMENT AREA	EQUIVELANT AREA	SUM OF (C•A)	SUB-CATCHMENT DISCHARGE	FLOW IN K&C (INC. BYPASS)	ROAD GRADE AT INLET	MINOR FLOW ROAD CAPACITY	INLET TYPE	FLOW INTO INLET	BYPASS FLOW	BYPASS STRUCTURE No.	CRITICAL TIME OF CONCENTRATION	RAINFALL INTENSITY	TOTAL (C•A)	MAJOR TOTAL FLOW	MAJOR SURFACE FLOW CAPACITY	MAJOR SURFACE FLOW	PIPE FLOW	REACH LENGTH	PIPE GRADE	PIPE/BOX DIMENSIONS (CLASS)	FLOW VELOCITY FULL (PIPE GRADE VELOCITY)	TIME OF FLOW IN REACH	STRUCTURE CHART No.	STRUCTURE RATIOS FOR 'K' VALUE CALCULATIONS	VELOCITY HEAD	U/S HEADLOSS COEFFICIENT	U/S PIPE STRUCTURE HEADLOSS	LAT. HEADLOSS CO-EFFICIENT	LAT. PIPE STRUCTURE HEADLOSS	W.S.E.C.O-EFFICIENT	CHANGE IN W.S.E	PIPE FRICTION SLOPE	PIPE FRICTION HEADLOSS (L•Sf)	DEPTH	VELOCITY	PIPE U/S I.L	PIPE D/S I.L	PIPE U/S H.G.L	PIPE D/S H.G.L	W.S.E	SURFACE OF K&C INVERT LEVEL	STRUCTURE No.
yrs			min	mm/h		ha	ha	ha	l/s	l/s	%	l/s		l/s	l/s		min.	mm/h	ha	l/s	l/s	l/s	l/s	m	%	mm	m/s	min.			m		m		m		m		m	m	m/s	m	m	m	m	m	m	
10	FI10-14	FI10-14 to FI09-14	15	140	0.85	0.032	0.027	0.027	11	11	0.97	1870	WEAQ FI900x600 ONGRAD	8	2	FI09-14	15	140	0.027				8	24.52	1.84	375	0.1	0.033	FI10-14	G1	0	7	0.002				0.002	1.91	0.438	0.048	1.0	26.67	26.21	26.73	26.26	26.73	28.01	FI10-14
100			15	204	1	0.032	0.032	0.032	18	18							15	204	0.032	18	1870	18				3																26.75	26.36				
								FLOW WIDTH =		1.879	0.028																																			
10	FI09-14	FI09-14 to G08-14	15	140	0.85	0.052	0.044	0.044	17	19	2.25	6	IPWEA-FI-6X9-T2B	6	13	G01-73	15.4	138	0.071				14	21.87	0.93	375	0.1	0.047	FI09-14	T6/T9	0.001	2.32	0.002			2.68	0.002	0.97	0.203	0.073	0.9	25.94	25.74	26.03	25.82	26.03	27.46	FI09-14
100			15	204	1	0.052	0.052	0.052	29	33							15.34	202	0.084	47	6	33				3																26.36	26.36				
								FLOW WIDTH =		0	0.033																																			
10	G08-14	G08-14 to G07-14	15	140	0.85	0.012	0.01	0.01	4	4	0.6	201	IPWEA-LIL-S	4	0	G07-14	15.79	137	0.082				18	28.6	0.59	375	0.2	0.076	G08-14	T3/T6	0.001	1.94	0.003			2.44	0.003	0.33	0.12	0.092	0.8	25.72	25.55	25.81	25.72	25.82	27.19	G08-14
100			15	204	1	0.012	0.012	0.012	7	7							15.7	200	0.096	53	201	7				3																26.35	26.35				
								FLOW WIDTH =		0.901	0.036																																			
10	G07-14	G07-14 to G06-14	15	140	0.85	0.025	0.021	0.021	8	8	0.99	263	IPWEA-LIL-S	8	0	G06-14	16.36	135	0.187				70	45.4	1.04	375	0.6	0.477	G07-14	T6/T9	0.02	2.49	0.051			2.75	0.056	1.01	0.472	0.163	1.5	25.48	25	25.67	25.21	25.73	27	G07-14
100			15	204	1	0.025	0.025	0.025	14	14							16.2	197	0.22	120	263	14				3																26.24	26.04				
								FLOW WIDTH =		1.106	0.042																																			
10	G06-14	G06-14 to G05-14	15	140	0.85	0.181	0.154	0.154	60	60	2.5	410	IPWEA-LIL-S	60	0	G05-14	16.86	133	0.465				171	44.04	2.27	375	1.6	1.138	G06-14	T3/T6	0.123	1.82	0.224			2.25	0.276	1.95	0.898	0.22	2.5	24.68	23.68	24.99	24.13	25.26	26.08	G06-14
100			15	204	1	0.181	0.181	0.181	103	103							16.64	195	0.547	296	410	103				3																25.75	25.05				
								FLOW WIDTH =		2.052	0.068																																			
10	G05-14	G05-14 to MH04/14	15	140	0.85	0.197	0.167	0.167	65	65	0.34	341	IPWEA-LIL-SAG-S	65	0	G01-16	17.15	132	0.632				231	18.24	1.91	450	1.5	0.441	G05-14	T1/T3	0.108	1.19	0.128			1.32	0.142	1.62	0.334	0.248	2.6	23.66	23.31	24	23.71	24.14	25.08	G05-14
100			15	204	1	0.197	0.197	0.197	112	243							16.91	193	0.744	399	81	243				3																24.92	24.73				
								FLOW WIDTH =		0	0.014																																			
10	MH04/14	MH04/14 to MH03/14											IPWEA-MH1500				17.26	131	1.63				594	32.1	0.5	750	1.3	0.717	MH04/14	T6/T9	0.092	2.22	0.205			2.53	0.233	0.45	0.158	0.487	2.0	23.01	22.85	23.5	23.36	23.73	25.27	MH04/14
100																	17.03	193	1.917	1028						3															24.4	24.23				
								FLOW WIDTH =		0	0																																			
10	MH03/14	MH03/14 to G02-14											IPWEA-MH1200				17.54	130	1.689				605	26.44	0.83	750	1.4	0.604	MH03/14	T1/T3	0.096	0.49	0.047			0.56	0.054	-0.09	0.081	0.417	2.4	22.82	22.6	23.31	23.34	23.36	24.64	MH03/14
100																	17.29	192	1.984	1058						3															24.14	23.99				
								FLOW WIDTH =		0	0																																			
10	G02-14	G02-14 to OUT1-14	15	140	0.85	0.038	0.032	0.032	12	12	0.13	184	IPWEA-LIL-SAG-S-1500MH	12	0	LOST	17.72	130	1.98				714	18.78	0.92	750	1.6	0.507	G02-14	T3/T6	0.133	1.78	0.238			2.16	0.288	1.33	0.146	0.448	2.6	22.57	22.4	23.1	22.85	23.39	24.34	G02-14
100			15	204	1	0.038	0.038	0.038	21	161							17.46	191	2.326	1234	184	161				3																23.33	23.07				
								FLOW WIDTH =		0	0																																			
10	OUT1-14												HW outlet																OUT1-14															22.85	23.55	OUT1-14
100																																														
								FLOW WIDTH =		0	0																																			
10	G02-15	G02-15 to G01-15	15	140	0.85	0.18	0.153	0.153	59	59	2	85	IPWEA-LIL-SAG-S	59	0	G01-16	15	140	0.153				59	11.54	1	375	0.5	0.104	G02-15	G2	0.015	9.7	0.143				0.143	0.1	0.013	0.15	1.4	23.07	22.96	23.42	23.41	23.57	24.47	G02-15
100			15	204	1	0.18	0.18	0.18	102	102							15	204	0.18	102	85	102				3																24.15	24.12				
								FLOW WIDTH =		0	0.01																																			
10	G01-15	G01-15 to G02-14	15	140	0.85	0.036	0.031	0.031	12	12	1.5	180	IPWEA-LIL-S	12	0	G02-14	15.13	139	0.184				71	14.96	1	375	0.6	0.16	G01-15	T9/T10	0.021	2.47	0.052			2.76	0.059	0.16	0.025	0.166	1.5	22.93	22.78	23.36	23.34	23.42	24.44	G01-15
100			15	204	1	0.036	0.036	0.036	21	21							15.12	203	0.216	122	180	21				3																24.04	23.99				
								FLOW WIDTH =		1.055	0.062																																			
10	G02-14		15	140	0.85	0.038	0.032	0.032	12	12	0.13	184	IPWEA-LIL-SAG-S-1500MH	12	0	LOST													G02-14	T3/T6		1.78	0.238			2.16	0.288									23.39	24.34	G02-14
100			15	204	1	0.038	0.038	0.038	21	161											184	161																								
								FLOW WIDTH =		0	0																																			
10	G01-16	G01-16 to G02-14	15	140	0.85	0.088	0.075	0.075	29	36	0.3	287	IPWEA-LIL-SAG-S	36	0	G02-14	15	140	0.075				36	8.894	1	375	0.3	0.047	G01-16	G2	0.005	9.7	0.052				0.052	0.04	0.004	0.115	1.3	22.92	22.83	23.34	23.34	23.39	24.32	G01-16
100			15	204	1	0.088	0.088	0.088	50	286							15	204	0.088	50	147	286				3																24.05	23.99				
								FLOW WIDTH =		0	0																																			
10	G02-14		15	140	0.85	0.038	0.032	0.032	12	12	0.13	184	IPWEA-LIL-SAG-S-1500MH	12	0	LOST													G02-14	T3/T6		1.78	0.238			2.16	0.288									23.39	24.34	G02-14
100			15	204	1	0.038	0.038	0.038	21	161											184	161																								
								FLOW WIDTH =		0	0																																			
10	FI01-17	FI01-17 to MH03/14	5	205	0.9	0.066	0.06	0.06	34	34	4.22	6097	LQ FI900x600 1200 MH ONG	27	7	G01-16	5	205	0.06				27	22.04	3.37	375	0.3	0.092	FI01-17	G1	0.003	7	0.022				0.022	3.18	0.725	0.074	1.8	23.94	23.2	24.06	23.36	24.08	25.27	FI01-17
100			5	304	1	0.066	0.066	0.066	56	56	0.033						5	304	0.066	56	6097	56				3																24.24	24.23				
								FLOW WIDTH =		2.217																																			
10	MH03/14												IPWEA-MH1200																MH03/14	T1/T3		0.49	0.047			0.56	0.054									23.36	24.64	MH03/14
100																																														
								FLOW WIDTH =		0	0																																			
10	G02-18	G02-18 to G01-18	15	140	0.85	0.025	0.021	0.021	8	8	2.49	381	IPWEA-LIL-S	8	0	G02-14	15	140	0.021				8	8.529	0.83	375	0.1	0.01	G02-18	G2	0	9.7	0.003				0.003	0.44	0.053	0.058	0.8	24.08	24.01	24.14	24.11	24.15	25.48	G02-18
100			15	204	1	0.025	0.025	0.025	14	14	0.052						15	204	0.025	14	381	14				3																24.76	24.76				
								FLOW WIDTH =		0.711																																			
10	G01-18	G01-18 to MH04/14	15	140	0.85	0.044	0.038	0.038	15	15	2.49	401	IPWEA-LIL-S	15	0	G01-19	15.19	139	0.059				23	14.6	1	375	0.2	0.051	G01-18	G2/T10	0.002	4.39	0.009			4.66	0.01	1.11	0.14	0.091	1.1	23.99	23.84	24.1	23.93	24.11	25.47	G01-18
100			15	204	1	0.044	0.044	0.044	25	25	0.044						15.16	203	0.069	39	401	25				3																24.74	24.73				
								FLOW WIDTH =		1.176																																			
10	MH04/14												IPWEA-MH1500																MH04/14	T6/T9		2.22	0.205			2.53	0.233									23.73	25.27	MH04/14
100																																														
								FLOW WIDTH =		0	0																																			
10	G01-19	G01-19 to MH04/14	15	140	0.85	0.251	0.213	0.213	83	83	0.35	184	IPWEA-LIL-SAG-S	83	0	G05-14	15	140	0.213				83	14.63	1	375	0.8	0.183	G01-19	G2	0.029	8.77	0.252				0.252	1.2	0.136	0.181	1.6	23.67	23.53	23.88	23.71	24.13	25.07	G01-19
100			15	204	1	0.251	0.251	0.251	142	149							15	204	0.251	142	86	149				3																24.77	24.73				
								FLOW WIDTH =		0	0.028																																			
10	MH04/14												IPWEA-MH1500																MH04/14	T6/T9		2.22	0.205			2.53	0.233									23.73	25.27	MH04/14
100																																														
								FLOW WIDTH =		0	0																																			
10	G06-20	G06-20 to G05-20	15	140	0.85	0.188	0.159	0.159	62	62	0.47	210	IPWEA-LIL-S	62	0	G04-20	15	140	0.159				62	11.15	0.91	375	0.6	0.104	G06-20	G2	0.016	9.7	0.156				0.156	0.36	0.076	0.158	1.4	25.66	25.56	25.84	25.8	26	27.05	G06-20
100			15	204	1	0.188	0.188	0.188	106	106							15	204	0.188	107	210	106				3																26.59	26.56				
								FLOW WIDTH =		2.823	0.084																																			
10	G05-20	G05-20 to G04-20	15	140	0.85	0.052	0.044	0.044	17	17	0.48	147	IPWEA-LIL-S-1200MH	17	0	G01-24	15.13	139	0.203				79	73.09	1.26	375	0.7	0.865	G05-20	T10	0.026	2.19	0.057			2.66	0.069	1.09	0.847	0.165	1.7	25.54	24.61	25.74	24.95	25.81	27.02	G05-20
100			15	204	1	0.052	0.052	0.052	29	29	0.081						15.12	203	0.239	135	147	29				3																26.45	26.07				
								FLOW WIDTH =		1.694																																			
10	G04-20	G04-20 to G03-20	15	140	0.85	0.134	0.114	0.114	44	44	1.87	355	IPWEA-LIL-S	44	0	G03-20	15.86	137	0.317				120	50.02	1.56	375	1.1	0.909	G04-20	T1	0.061	1.65	0.1				0.1	1.67	0.742	0.198	2.0	24.59	23.81	24.85	24.01	24.95	26.07	G04-20
100			15	204	1	0.134	0.134	0.134	76	85							15.76	199	0.373	206	355	85				3																25.9	25.28				
								FLOW WIDTH =		1.928	0.064																																			
10	G03-20	G03-20 to MH02/20	15	140	0.85	0.202	0.172	0.172	67	67	0.76	273	IPWEA-LIL-SAG-S	67	0	G01-22	16.27	135	0.594				223	12.82	0.5	600	0.8	0.169	G03-20	T1/T3	0.032	1.62	0.051			1.97	0.062	0.15	0.054	0.304	1.6	23.59	23.53	23.9	23.88	23.96	25.28	G03-20
100			15	204	1	0.202	0.202	0.202	115	193							16.13	197	0.698	382	273	193				3																25.25	25.24				
								FLOW WIDTH =		0	0.016																																			
10	MH02/20	MH02/20 to MH01/20											IPWEA-MH1050				16.41	134	0.594				222	42.28	0.5	600	0.8	0.55	MH02/20	T9/T10	0.031	2.35	0.074			2.74	0.086	0.05	0.099	0.304	1.5	23.5	23.28	23.8	23.78	23.89	25.42	MH02/20
100																	16.26	197	0.698	382						3															25.07	24.91				
								FLOW WIDTH =		0	0																																			
10	MH01/20	MH01/20 to MH04/14											IPWEA-MH1050				16.86	133	0.726				267	23.98	0.5	600	1.0	0.38	MH01/20	T1/T3	0.046	1.07	0.049			1.28	0.058	0.11	0.042	0.34	1.6	23.25	23.13	23.73	23.71	23.79	25.21	MH01/20
100																	16.66	195	0.854	463						3															24.84	24.73				
								FLOW WIDTH =		0	0																																			
10	MH04/14												IPWEA-MH1500																MH04/14	T6/T9		2.22	0.205			2.53	0.233									23.73	25.27	MH04/14
100																																														
								FLOW WIDTH =		0	0																																			

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

Approval no: DEV-2026-WAR-4914

Date: 10/07/2026

Queensland Government

M:\2024\24-277 Rivermont P2 Stage 7\Engineering\Acad\24-277-15-16-SW-CALCS.dwg Plotted by: AL on 8/06/2026 4:19:48 PM

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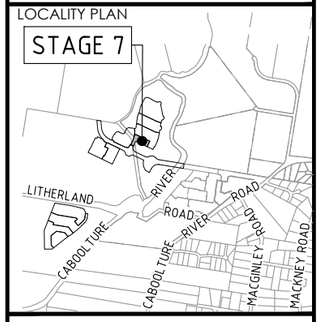
NORTH

LOCALITY PLAN



REVISIONS

No	Description	Date	By
A	FOR APPROVAL	20.02.2026	DF
B	FOR APPROVAL	14.05.2026	DF

Client

Stockland

Project

RIVERMONT
PRECINCT 2
STAGE 7

kn group

L1, 62 Astor Terrace, Spring Hill, QLD 4000
www.kngroup.au | 07 3017 1900

Approved Director - RPEQ 17544

Digitally signed by Mark Shaw RPEQ 17544
Date: 2026.06.08 14:42:50+10'00'

Drawing Title

STORMWATER CALCULATION TABLE SHEET 1

Drawn	Designed	Checked	Date
DF	AL	MAS	

Scale	Sheet
AS SHOWN	15 of

	Drawing No	Revision
A1	24-277-15	B

LOCATION			TIME		SUB-CATCHMENT RUNOFF					INLET DESIGN				DRAIN DESIGN										HEADLOSSES											PART FULL			DESIGN LEVELS						
			tc	I	C	A	C*A	ΣC*A	Q					Qg	Qb		tc	I	ΣCA	Qt	Qm	Qs	Qp	L	S		V	T			V2/2g	Ku	hu	Kl	hl	Kw	hw	sF	HF		vP						
DESIGN ARI	STRUCTURE No.	DRAIN SECTION	SUB-CATCHMENT TIME OF CONCENTRATION	RAINFALL INTENSITY	CO-EFFICIENT OF RUNOFF	SUB-CATCHMENT AREA	EQUIVELANT AREA	SUM OF (C*A)	SUB-CATCHMENT DISCHARGE	FLOW IN K&C (INC. BYPASS)	ROAD GRADE AT INLET	MINOR FLOW ROAD CAPACITY	INLET TYPE	FLOW INTO INLET	BYPASS FLOW	BYPASS STRUCTURE No.	CRITICAL TIME OF CONCENTRATION	RAINFALL INTENSITY	TOTAL (C*A)	MAJOR TOTAL FLOW	MAJOR SURFACE FLOW CAPACITY	MAJOR SURFACE FLOW	PIPE FLOW	REACH LENGTH	PIPE GRADE	PIPE Ø OR X DIMENSIONS (CLASS)	FLOW VELOCITY FULL (PIPE GRADE VELOCITY)	TIME OF FLOW IN REACH	STRUCTURE CHART No.	STRUCTURE RATIOS FOR 'K' VALUE CALCULATIONS	VELOCITY HEAD	U/S HEADLOSS COEFFICIENT	U/S PIPE STRUCTURE HEADLOSS	LAT. HEADLOSS CO-EFFICIENT	LAT. PIPE STRUCTURE HEADLOSS	W.S.E.C.O-EFFICIENT	CHANGE IN W.S.E	PIPE FRICTION SLOPE	PIPE FRICTION HEADLOSS (L*Sf)	DEPTH	VELOCITY	PIPE U/S I.L	PIPE D/S I.L	PIPE U/S H.G.L	PIPE D/S H.G.L	W.S.E	SURFACE OF K&C	INVERT LEVEL	STRUCTURE No.
yrs			min	mm/h		ha	ha	ha	l/s	l/s	%	l/s		l/s	l/s		min.	mm/h	ha	l/s	l/s	l/s	l/s	m	%	mm	m/s	min.			m		m		m		m	m		m/s	m							
10	G01-22	G01-22 to MH01/20	15	140	0.85	0.029	0.024	0.024	9	9	0.5	112	IPWEA-LIL-S	9	0	G05-14	15	140	0.024				9	5.468	1	375	0.1	0.008	G01-22	G2	0	9.7	0.004				0.004	1.17	0.051	0.059	0.9	23.85	23.8	23.92	23.86	23.92	25.22	G01-22
100			15	204	1	0.029	0.029	0.029	16	16							15	204	0.029	16	112	16				3																24.91	24.91			
								FLOW WIDTH =		1.356	0.049																																			
10	MH01/20												IPWEA-MH1050																MH01/20	T1/T3		1.07	0.049			1.28	0.058							23.79	25.21	MH01/20
100																																													
								FLOW WIDTH =		0	0																																			
10	G01-23	G01-23 to MH01/20	15	140	0.85	0.127	0.108	0.108	42	42	0.5	128	IPWEA-LIL-SAG-S	42	0	G01-16	15	140	0.108				42	6.955	1	375	0.4	0.044	G01-23	G2	0.007	9.7	0.071				0.071	1.33	0.061	0.125	1.3	23.77	23.7	23.92	23.82	23.99	25.17	G01-23
100			15	204	1	0.127	0.127	0.127	72	72							15	204	0.127	72	27	72				3																24.91	24.91			
								FLOW WIDTH =		0	0																																			
10	MH01/20												IPWEA-MH1050																MH01/20	T1/T3		1.07	0.049			1.28	0.058							23.79	25.21	MH01/20
100																																													
								FLOW WIDTH =		0	0																																			
10	G01-24	G01-24 to G03-20	15	140	0.85	0.123	0.105	0.105	41	41	0.61	272	IPWEA-LIL-SAG-S	41	0	G03-20	15	140	0.105				41	9.8	1	375	0.4	0.06	G01-24	G2	0.007	9.7	0.067				0.067	1	0.098	0.123	1.3	23.9	23.8	24.04	23.95	24.11	25.28	G01-24
100			15	204	1	0.123	0.123	0.123	70	70							15	204	0.123	70	2	70				3																25.28	25.28			
								FLOW WIDTH =		0	0																																			
10	G03-20		15	140	0.85	0.202	0.172	0.172	67	67	0.76	273	IPWEA-LIL-SAG-S	67	0	G01-22													G03-20	T1/T3		1.62	0.051			1.97	0.062							23.96	25.28	G03-20
100			15	204	1	0.202	0.202	0.202	115	193											273	193																								
								FLOW WIDTH =		0	0.016																																					
10	G01-43	G01-43 to G02-42	15	140	0.85	0.112	0.095	0.095	37	37	1	108	IPWEA-LIL-SAG-S	37	0	G01-42	15	140	0.095				37	27.91	1.01	375	0.3	0.154	G01-43	G2	0.006	9.7	0.056				0.056	0.01	0.047	0.117	1.3	23.67	23.39	23.81	23.81	23.87	25.17	G01-43
100			15	204	1	0.112	0.112	0.112	63	63							15	204	0.112	63	108	63				3																24.62	24.58			
								FLOW WIDTH =		0	0																																			
10	G02-42		15	140	0.85	0.061	0.052	0.052	20	20	0.25	157	IPWEA-LIL-SAG-S	20	0	G01-42													G02-42	T9/T10		2.28	0.03			2.67	0.036							23.82	24.94	G02-42
100			15	204	1	0.061	0.061	0.061	35	641											15	641																								
								FLOW WIDTH =		0	0																																			

CALCULATIONS TABLE

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV-2026-WAR-4914

Date: 10/07/2026

Queensland Government

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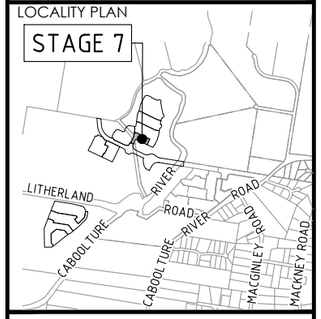
NORTH

LOCALITY PLAN



REVISIONS

No	Description	Date	By
A	FOR APPROVAL	20.02.2026	DF
B	FOR APPROVAL	14.05.2026	DF

Client

Stockland

Project

RIVERMONT
PRECINCT 2
STAGE 7

kn group
L1, 62 Astor Terrace, Spring Hill, QLD 4000
www.kngroup.com.au | 07 3017 1900

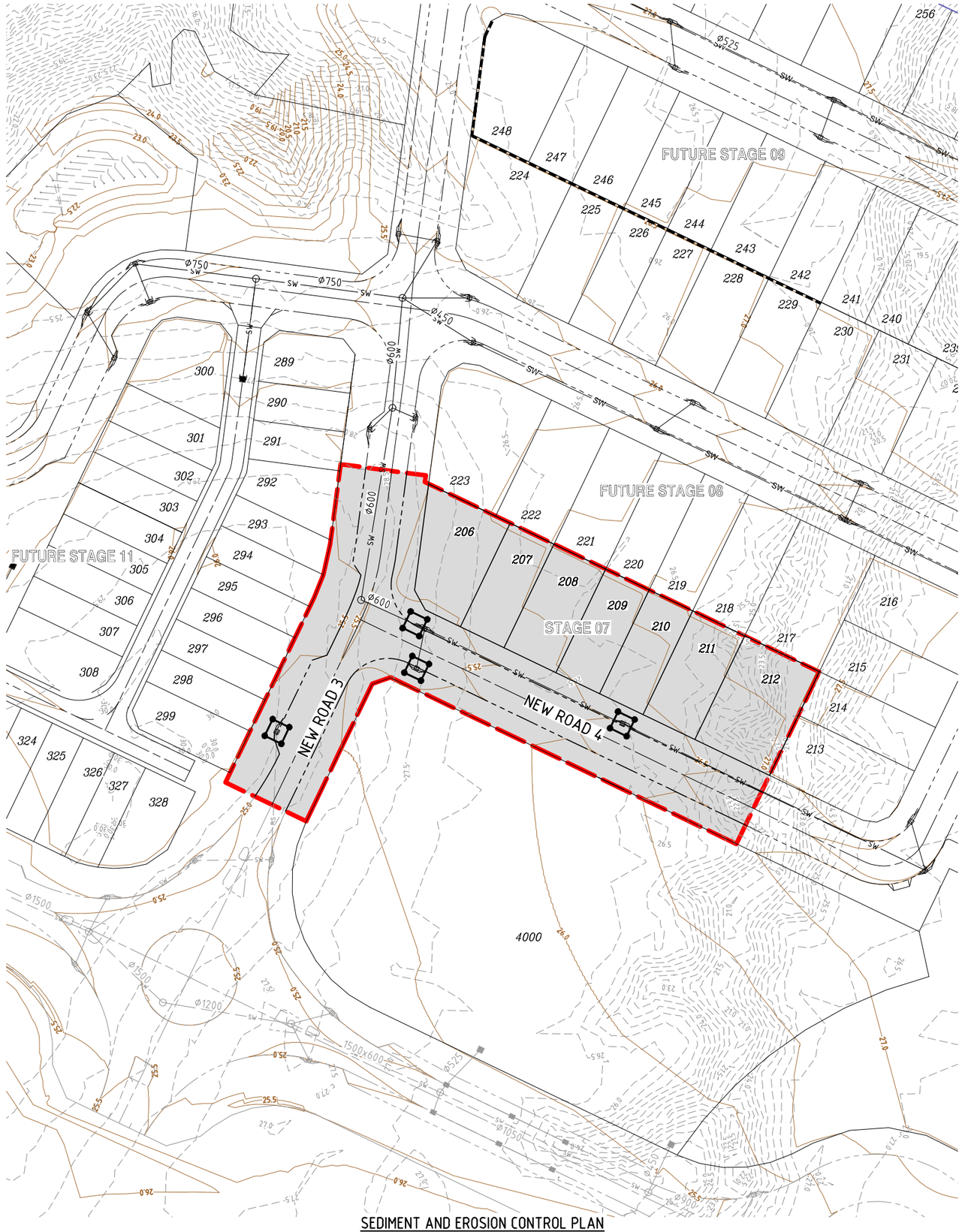
Approved Director - RPEQ 17544
M. Shaw
Digitally signed by Mark Shaw RPEQ 17544
Date: 2026.06.08 14:42:50+10'00'

Drawing Title
STORMWATER
CALCULATION TABLE
SHEET 2

Drawn	Designed	Checked	Date
DF	AL	MAS	

Scale	Sheet
AS SHOWN	16 of

	Drawing No	Revision
A1	24-277- 16	B



SEDIMENT AND EROSION CONTROL PLAN
SCALE 1:500

LEGEND

- STAGE BOUNDARY
- KERB AND CHANNEL
- SW — PROPOSED STORMWATER DRAINAGE
- 36.0 — DESIGN SURFACE CONTOURS
- -36.0- EXISTING SURFACE CONTOURS
- CLEAN WATER DIVERSION DRAINS
- SEDIMENT AND DIVERSION FENCE (TEMP)
- GULLY BAGS

NOTE

1. 600mm WIDE TURFING STRIP WITH FINGERS @ 5m CRS TO BE PLACED BEHIND ALL KERB AND CHANNEL.

SCALE
10 5 0 10 20 30 40 50m
1 : 500 (A1 UNREDUCED)

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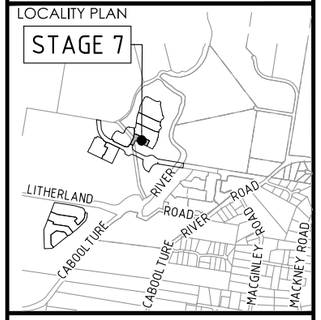
NORTH

LOCALITY PLAN



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Approved Director - RPEQ 17544
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Date: 2026.06.08 14:42:51+10'00'

Drawing Title
SEDIMENT AND EROSION CONTROL PLAN
POST CONSTRUCTION

Drawn	Designed	Checked	Date
DF	JB	MAS	MAY' 26

Scale	Sheet
AS SHOWN	17 of 20

	Drawing No	Revision
A1	24-277- 17	B

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BASIN NOTES

1. AN APPROPRIATELY MARKED (E.G. PAINTED) DE-SILTING MARKER POST MUST BE INSTALLED IN THE BASIN TO INDICATE THE TOP OF THE SEDIMENT STORAGE ZONE. THE BASIN MUST BE DE-SILTED IF THE NEXT STORM IS LIKELY TO CAUSE SEDIMENT TO SETTLE ABOVE THIS MARKER POINT, OR IF THE SEDIMENT IS ALREADY ABOVE THIS MARKER POINT.
2. PRIOR TO DISCHARGE OF WATER FROM A SEDIMENT BASIN, IT IS ESSENTIAL FOR THE WATER QUALITY TO COMPLY WITH ALL SPECIFIED WATER QUALITY OBJECTIVES (WQOS) (E.G. WATER PH IN THE RANGE OF 6.5 – 8.5).
3. THE RECOMMENDED WATER QUALITY STANDARD FOR SEDIMENT BASINS IS PRESENTED IN TABLE B18.

TABLE B18 – RECOMMENDED DISCHARGE STANDARD FOR DE-WATERING OPERATIONS

SITE CONDITIONS	DISCHARGE WATER QUALITY STANDARD
POST-STORM DE-WATERING OF SEDIMENT BASINS (E.G. TYPE F AND D BASINS, AND TYPE C BASINS OPERATING AS WET-BASINS).	90 PERCENTILE TOTAL SUSPENDED SOLIDS (TSS) CONCENTRATION NOT EXCEEDING 50mg/L.

TECHNICAL NOTES B5 – GYPSUM DOSING

PROCEDURE FOR THE MANUAL DOSING OF GYPSUM (DEVELOPED FROM LANDCOM, 2004):

1. PLACE REQUIRED GYPSUM QUANTITY (SAY 32kg/100m^3 OF WATER) IN APPROXIMATELY 50L DRUM PERFORATED WITH 25mm HOLES AT 150mm SPACING.
2. SUSPEND THE SCREENED, RECIRCULATING PUMP INTAKE INTO THE DRUM.
3. LIFT THE DRUM INTO THE BASIN SUCH THAT BASIN WATER CAN ENTER AND CIRCULATED THROUGH THE DRUM.
4. USING THE PUMP, SPRAY THE GYPSUM-RICH SOLUTION EVENLY OVER THE SURFACE OF THE BASIN UNTIL THE GYPSUM IS FULLY REMOVED FROM THE DRUM. THE PUMP OUTLET MUST SPRAY THE MIXTURE OVER A WIDE AREA RATHER THAN JUST DISCHARGING AS A CONFINED "JET".
5. ALTERNATIVELY, IF TWO PUMPS ARE AVAILABLE, USE THE TWO PUMPS TO CIRCULATE BASIN WATER FIRST TO THE ON-SHORE TANK, AND THEN FROM THE TANK OVER THE SURFACE OF THE BASIN. A LARGE MIXING TANK WILL USUALLY BE REQUIRED.

B3 BASIN CONSTRUCTION AND MAINTENANCE MATERIALS

- EARTH FILL: CLEAN SOIL WITH EMERSON CLASS 2(1), 3, 4, OR 5, AND FREE OF ROOTS, WOODY VEGETATION, ROCKS AND OTHER UNSUITABLE MATERIAL. SOIL WITH EMERSON CLASS 4 AND 5 MAY NOT BE SUITABLE DEPENDING ON PARTICLE SIZE AND DISTRIBUTION AND DEGREE OF DISPERSION. CLASS 2(1) SHOULD ONLY BE USED UPON RECOMMENDATION FROM GEOTECHNICAL SPECIALIST. [ALTERNATIVELY, SET A STANDARD BASED ON EXCHANGEABLE SODIUM PERCENTAGE – SEEK EXPERT ADVICE.]
- RISER PIPE: MINIMUM 250mm DIAMETER.
- SPILLWAY ROCK: HARD, ANGULAR, DURABLE, WEATHER RESISTANT AND EVENLY GRADED ROCK WITH 50% BY WEIGHT LARGER THAN THE SPECIFIED NOMINAL (D50) ROCK SIZE. LARGER ROCK SHOULD DOMINATE, WITH SUFFICIENT SMALL ROCK TO FILL THE VOIDS BETWEEN THE LARGER ROCK. THE DIAMETER OF THE LARGEST ROCK SIZE SHOULD BE NO LARGER THAN 1.5 TIMES THE NOMINAL ROCK SIZE. THE SPECIFIC GRAVITY SHOULD BE AT LEAST 2.5.
- GEOTEXTILE FABRIC: HEAVY-DUTY, NEEDLE-PUNCHED, NON-WOVEN FILTER CLOTH, MINIMUM BIDIM A24 OR EQUIVALENT.

CONSTRUCTION

1. NOTWITHSTANDING ANY DESCRIPTION CONTAINED WITHIN THE APPROVED PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR SATISFYING THEMSELVES AS TO THE NATURE AND EXTENT OF THE SPECIFIED WORKS AND THE PHYSICAL AND LEGAL CONDITIONS UNDER WHICH THE WORKS WILL BE CARRIED OUT. THIS SHALL INCLUDE MEANS OF ACCESS, EXTENT OF CLEARING, NATURE OF MATERIAL TO BE EXCAVATED, TYPE AND SIZE OF MECHANICAL PLAN REQUIRED, LOCATION AND SUITABILITY OF WATER SUPPLY FOR CONSTRUCTION AND TESTING PURPOSES, AND ANY OTHER LIKE MATTERS AFFECTING THE CONSTRUCTION OF THE WORKS.
2. REFER TO APPROVED PLANS FOR LOCATION, DIMENSIONS, AND CONSTRUCTION DETAILS. IF THERE ARE QUESTIONS OR PROBLEMS WITH THE LOCATION, DIMENSIONS, OR METHOD OF INSTALLATION, CONTACT THE ENGINEER OR RESPONSIBLE ON-SITE OFFICER FOR ASSISTANCE.
3. BEFORE STARTING ANY CLEARING OR CONSTRUCTION, ENSURE ALL THE NECESSARY MATERIALS AND COMPONENTS ARE ON THE SITE TO AVOID DELAYS IN COMPLETING THE POND ONCE WORKS BEGIN.
4. INSTALL REQUIRED SHORT-TERM SEDIMENT CONTROL MEASURES DOWNSTREAM OF THE PROPOSED EARTHWORKS TO CONTROL SEDIMENT RUNOFF DURING CONSTRUCTION OF THE BASIN.
5. THE AREA TO BE COVERED BY THE EMBANKMENT, BORROW PITS AND INCIDENTAL WORKS, TOGETHER WITH AN AREA EXTENDING BEYOND THE LIMITS OF EACH FOR A DISTANCE NOT EXCEEDING FIVE (5) METRES ALL AROUND MUST BE CLEARED OF ALL TREES, SCRUB, STUMPS, ROOTS, DEAD TIMBER AND RUBBISH AND DISPOSED OF IN A SUITABLE MANNER. DELAY CLEARING THE MAIN POND AREA UNTIL THE EMBANKMENT IS COMPLETE. [MODIFY AS NECESSARY TO LIMIT TOTAL AREA OF DISTURBANCE AND ANY DAMAGE TO PROTECTED VEGETATION].
6. ENSURE ALL HOLES MADE BY GRUBBING WITHIN THE EMBANKMENT FOOTPRINT ARE FILLED WITH SOUND MATERIAL, ADEQUATELY COMPACTED, AND FINISHED FLUSH WITH THE NATURAL SURFACE.
7. IS SUITABLE AND IT IS PLACED IN THE CORRECT ZONE ACCORDING TO ITS CLASSIFICATION.

CUT-OFF TRENCH

1. BEFORE CONSTRUCTION OF THE CUT-OFF TRENCH OR ANY ANCILLARY WORKS WITHIN THE EMBANKMENT FOOTPRINT, ALL GRASS GROWTH AND TOPSOIL MUST BE REMOVED FROM THE AREA TO BE OCCUPIED BY THE EMBANKMENT AND MUST BE DEPOSITED CLEAR OF THIS AREA AND RESERVED FOR TOPDRESSING THE COMPLETING EMBANKMENT.
2. EXCAVATE A CUT-OFF TRENCH ALONG THE CENTRE LINE OF THE EARTH FILL EMBANKMENT. CUT THE TRENCH TO STABLE SOIL MATERIAL, BUT IN NO CASE MAKE IT LESS THAN 600MM DEEP. THE CUT-OFF TRENCH MUST EXTEND INTO BOTH ABUTMENTS TO AT LEAST THE ELEVATION OF THE RISER PIPE CREST. MAKE THE MINIMUM BOTTOM WIDTH WIDE ENOUGH TO PERMIT OPERATION OF EXCAVATION AND COMPACTION EQUIPMENT, BUT IN NO CASE LESS THAN 600mm. MAKE THE SIDE SLOPES OF THE TRENCH NO STEEPER THAN 1:1 (H:V).
3. ENSURE ALL WATER, LOOSE SOIL, AND ROCK ARE REMOVED FROM THE TRENCH BEFORE BACKFILLING COMMENCES. THE CUT-OFF TRENCH MUST BE BACKFILLED WITH SELECTED EARTH-FILL OF THE TYPE SPECIFIED FOR THE EMBANKMENT, AND THIS SOIL MUST HAVE A MOISTURE CONTENT AND DEGREE OF COMPACTION THE SAME AS THAT SPECIFIED FOR THE SELECTED CORE ZONE.
4. MATERIAL EXCAVATED FROM THE CUT-OFF TRENCH MAY BE USED IN CONSTRUCTION OF THE EMBANKMENT PROVIDED IT IS SUITABLE AND IT IS PLACED IN THE CORRECT ZONE ACCORDING TO ITS CLASSIFICATION.

EMBANKMENT

1. SCARIFY AREAS ON WHICH FILL IS TO BE PLACED BEFORE PLACING THE FILL.
2. ENSURE ALL FILL MATERIAL USED TO FORM THE EMBANKMENT MEETING THE SPECIFICATIONS CERTIFIED BY A SOIL SCIENTIST OR GEOTECHNICAL SPECIALIST.
3. THE FILL MATERIAL MUST CONTAIN SUFFICIENT MOISTURE SO IT CAN BE FORMED BY HAND INTO A BALL WITHOUT CRUMBLING. IF WATER CAN BE SQUEEZED OUT OF THE BALL, IT IS TOO WET FOR PROPER COMPACTION. PLACE FILL MATERIAL IN 150 TO 250mm CONTINUOUS LAYERS OVER THE ENTIRE LENGTH OF THE FILL AREA THEN COMPACT BEFORE PLACEMENT OF FURTHER FILL.
4. PLACE RISER PIPE OUTLET SYSTEM, IF SPECIFIED, IN APPROPRIATE SEQUENCE WITH THE EMBANKMENT FILLING. REFER TO SPECIFICATIONS SUPPLIED BELOW.
5. UNLESS OTHERWISE SPECIFIED ON THE APPROVED PLANS, COMPACT THE SOIL AT ABOUT 1% TO 2% WET OF OPTIMUM AND TO 95% MODIFIED OR 100% STANDARD COMPACTION.
6. WHERE BOTH DISPERSIVE AND NON-DISPERSIVE CLASSIFIED EARTH-FILL MATERIALS ARE AVAILABLE, NON-DISPERSIVE EARTH-FILL MUST BE USED IN THE CORE ZONE. THE REMAINING CLASSIFIED EARTH-FILL MATERIALS MUST ONLY BE USED AS DIRECTED BY [INSERT TITLE].
7. WHERE SPECIFIED, CONSTRUCT THE EMBANKMENT TO AN ELEVATION 10% HIGHER THAN THE DESIGN HEIGHT TO ALLOW FOR SETTLING; OTHERWISE FINISHED DIMENSIONS OF THE EMBANKMENT AFTER SPREADING OF TOPSOIL MUST CONFORM TO THE DRAWING WITH A TOLERANCE OF 75mm FORM THE SPECIFIED DIMENSIONS.
8. ENSURE DEBRIS AND OTHER UNSUITABLE BUILDING WASTE IN NOT PLACED WITHIN THE EARTH EMBANKMENT.
9. AFTER COMPLETION OF THE EMBANKMENT ALL LOOSE UNCOMPACTED EARTH-FILL MATERIAL OF THE UPSTREAM AND DOWNSTREAM BATTER MUST BE REMOVED PRIOR TO SPREADING OF TOPSOIL.
10. TOPSOIL AND REVEGETATE/STABILISED ALL EXPOSED EARTH AS DIRECTED WITHIN THE APPROVED PLANS.

ESTABLISHMENT OF SETTLING POND

1. THE AREA TO BE COVERED BY THE STORED WATER OUTSIDE THE LIMITS OF THE BORROW PITS MUST BE CLEARED OF ALL SCRUB AND RUBBISH. TREES MUST BE CUT DOWN STUMP HIGH AND REMOVED FROM THE IMMEDIATE VICINITY OF THE WORK.
2. ESTABLISH ALL REQUIRED INFLOW CHUTES AND INLET BAFFLES, IF SPECIFIED, TO ENABLE WATER TO DISCHARGE INTO THE BASIN IN A MANNER THAT WILL NOT CAUSE SOIL EROSION NOR THE RE-SUSPENSION OF SETTLED SEDIMENT.
3. INSTALL A SEDIMENT STORAGE LEVEL MARKER POST WITH A CROSS MEMBER SET JUST BELOW THE TOP OF THE SEDIMENT STORAGE ZONE (AS SPECIFIED ON THE APPROVED PLANS). USE AT LEAST A 75mm WIDE POST FIRMLY SET INTO THE BASIN FLOOR.
4. IF SPECIFIED, INSTALL INTERNAL SETTLING POND BAFFLES. ENSURE THE CREST OF THESE BAFFLES IS SET LEVEL WITH OR JUST BELOW, THE ELEVATION OF THE EMERGENCY SPILLWAY CREST.
5. INSTALL ALL APPROPRIATE MEASURE TO MINIMISE SAFETY RISK TO ON-SITE PERSONNEL AND THE PUBLIC CAUSED BY THE PRESENCE OF THE SETTLING POND. AVOID STEEP, SMOOTH INTERNAL SLOPES. APPROPRIATELY FENCE THE SETTLING POND AND POST WARNING SIGNS IF UNSUPERVISED ACCESS IS LIKELY OR THERE IS CONSIDERED TO BE AN UNACCEPTABLE RISK TO THE PUBLIC.

SPILLWAY CONSTRUCTION

1. THE SPILLWAY MUST BE EXCAVATED AS SHOWN ON THE PLANS, AND THE EXCAVATED MATERIAL IF CLASSIFIED AS SUITABLE, MUST BE USED IN THE EMBANKMENT, AND IF NOT SUITABLE IT MUST BE DISPOSED OF INTO SPOIL HEAPS.
2. ENSURE EXCAVATED DIMENSIONS ALLOW ADEQUATE BOXING-OUT SUCH THAT THE SPECIFIED ELEVATIONS, GRADES, CHUTE WIDTH, AND ENTRANCE AND EXIT SLOPES FOR THE EMERGENCY SPILLWAY WILL BE ACHIEVED AFTER PLACEMENT OF THE ROCK OR OTHER SCOUR PROTECTION MEASURES AS SPECIFIED IN THE PLANS.
3. PLACE SPECIFIED SCOUR PROTECTION MEASURES ON THE EMERGENCY SPILLWAY. ENSURE THE FINISHED GRADE BLENDS WITH THE SURROUNDING AREA TO ALLOW A SMOOTH FLOW TRANSITION FROM SPILLWAY TO DOWNSTREAM CHANNEL.
4. IF A SYNTHETIC FILTER FABRIC UNDERLAY IS SPECIFIED, PLACE THE FILTER FABRIC DIRECTLY ON THE PREPARED FOUNDATION. IF MORE THAN 1 SHEET OF FILTER FABRIC IS REQUIRED, OVERLAP THE EDGES BY AT LEAST 300mm AND PLACE ANCHOR PINS AT MINIMUM 1m SPACING ALONG THE OVERLAP. BURY THE UPSTREAM END OF THE FABRIC A MINIMUM 300mm BELOW GROUND AND WHERE NECESSARY, BURY THE LOWER END OF THE FABRIC OR OVERLAP A MINIMUM 300mm OVER THE NEXT DOWNSTREAM SECTION AS REQUIRED. ENSURE THE FILTER FABRIC EXTENDS AT LEAST 1000mm UPSTREAM OF THE SPILLWAY CREST.
5. TAKE CARE NOT TO DAMAGE THE FABRIC DURING OR AFTER PLACEMENT. IF DAMAGE OCCURS, REMOVE THE ROCK AND REPAIR THE SHEET BY ADDING ANOTHER LAYER OF FABRIC WITH A MINIMUM OVERLAP OF 300mm AROUND THE DAMAGED AREA. IF EXTENSIVE DAMAGE IS SUSPECTED, REMOVE AND REPLACE THE ENTIRE SHEET.
6. WHERE LARGE ROCK IS USED, OR MACHINE PLACEMENT IS DIFFICULT, A MINIMUM 100mm LAYER OF FINE GRAVEL, AGGREGATE, OR SAND MAY BE NEEDED TO PROTECT THE FABRIC.
7. PLACEMENT OF ROCK SHOULD FOLLOW IMMEDIATELY AFTER PLACEMENT OF THE FILTER FABRIC. PLACE ROCK SO THAT IF FORMS A DENSE, WELL-GRADED MASS OF ROCK WITH A MINIMUM OF VOIDS. THE DESIRED DISTRIBUTION OF ROCK THROUGHOUT THE MASS MAY BE OBTAINED BY SELECTIVE LOADING AT THE QUARRY AND CONTROLLED DUMPING DURING FINAL PLACEMENT.
8. THE FINISHED SLOPE SHOULD BE FREE OF POCKETS OF SMALL ROCK OR CLUSTERS OF LARGE ROCKS. HAND PLACING MAY BE NECESSARY TO ACHIEVE THE PROPER DISTRIBUTION OF ROCK SIZES TO PRODUCE A RELATIVELY SMOOTH, UNIFORM SURFACE. THE FINISHED GRADE OF THE ROCK SHOULD BLEND WITH THE SURROUNDING AREA. NO OVERFALL OR PROTRUSION OF ROCK SHOULD BE APPARENT.
9. ENSURE THAT THE FINAL ARRANGEMENT OF THE SPILLWAY CREST WILL NOT PROMOTE EXCESSIVE FLOW THROUGH THE ROCK SUCH THAT THE WATER CAN BE RETAINED WITHIN THE SETTLING BASIN AN ELEVATION NO LESS THAN 50m ABOVE OR BELOW THE NOMINATED SPILLWAY CREST ELEVATION.

MAINTENANCE OF SEDIMENT BASIN

1. INSPECT THE SEDIMENT BASIN DURING THE FOLLOWING PERIODS:
   - (i) DURING CONSTRUCTION TO DETERMINE WHETHER MACHINERY, FALLING TREES, OR CONSTRUCTION ACTIVITY HAS DAMAGED ANY COMPONENTS OF THE SEDIMENT BASIN. IF DAMAGE HAS OCCURRED, REPAIR IT.
   - (ii) AFTER EACH RUNOFF EVENT. INSPECT THE EROSION DAMAGE AT FLOW ENTRY AND EXIT POINTS. IF DAMAGE HAS OCCURRED, MAKE THE NECESSARY REPAIRS.
   - (iii) AT LEAST WEEKLY DURING THE NOMINATED WET SEASON (IF ANY) OTHERWISE AT LEAST FORTNIGHTLY.
   - (i) PRIOR TO, AND IMMEDIATELY AFTER, PERIOD OF "STOP WORK" OR SITE "SHUTDOWN".
2. CLEAN OUT ACCUMULATED SEDIMENT WHEN IT REACHES THE MARKER BOARD/POST, AND RESTORE THE ORIGINAL STORAGE VOLUME. PLACE SEDIMENT IN A DISPOSABLE AREA OR, IF APPROPRIATE, MIX WITH DRY SOIL ON THE SITE.
3. DO NOT DISPOSE OF SEDIMENT IN A MANNER THAT WILL CREATE AN EROSION OR POLLUTION HAZARD.
4. CHECK ALL VISIBLE PIPE CONNECTIONS FOR LEAKS, AND REPAIR AS NECESSARY.
5. CHECK FILL MATERIAL IN THE DAM FOR EXCESSIVE SETTLEMENT, SLUMPING OF THE SLOPES OR PIPING BETWEEN THE CONDUIT AND THE EMBANKMENT; MAKE ALL NECESSARY REPAIRS.
6. REMOVE ALL TRASH AND OTHER DEBRIS FROM THE BASIN AND RISER.
7. SUBMERGED INFLOW PIPES MUST BE INSPECTED AND DE-SILTED (AS REQUIRED) AFTER EACH INFLOW EVENT.

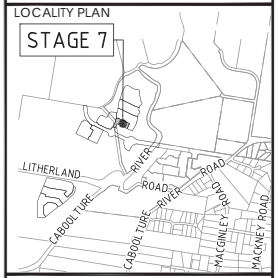
REMOVAL OF SEDIMENT BASIN

1. WHEN GRADING AND CONSTRUCTION IN THE DRAINAGE AREA ABOVE A TEMPORARY SEDIMENT BASIN IS COMPLETED AND THE DISTURBED AREAS ARE ADEQUATELY STABILISED, THE BASIN MUST BE REMOVED OR OTHERWISE INCORPORATED INTO THE PERMANENT STORMWATER DRAINAGE SYSTEM. IN EITHER CASE, SEDIMENT SHOULD BE CLEARED AND PROPERLY DISPOSED OF AND THE BASIN AREA STABILISED.
2. BEFORE STARTING ANY MAINTENANCE WORK ON THE BASIN OR SPILLWAY, INSTALL ALL NECESSARY SHORT-TERM SEDIMENT CONTROL MEASURES DOWNSTREAM OF THE SEDIMENT BASIN.
3. ALL WATER AND SEDIMENT MUST BE REMOVED FROM THE BASIN PRIOR TO THE DAM'S REMOVAL. DISPOSE OF SEDIMENT AND WATER IN A MANNER THAT WILL NOT CREATE AN EROSION OR POLLUTION HAZARD.
4. BRING THE DISTURBED AREA TO A PROPER GRADE, THEN SMOOTH, COMPACT, AND STABILISE AND/OR REVEGETATE AS REQUIRED TO ESTABLISH A STABLE LAND SURFACE.

DO NOT SCALE THIS DRAWING
IF IN DOUBT - ASK!

NORTH

LOCALITY PLAN



REVISIONS

No	Description	Date	By
A	FOR APPROVAL	20.02.2026	DF

Client

Stockland

Project

RIVERMONT
PRECINCT 2
STAGE 7

kn group
L1, 62 Astor Terrace, Spring Hill, QLD 4000
www.kngroup.com.au | 07 3017 1900

Approved Director - RPEQ 17544

M. Shaw

Digitally signed by Mark Shaw RPEQ 17544
Date: 2026.02.23 12:37:13+10'00'

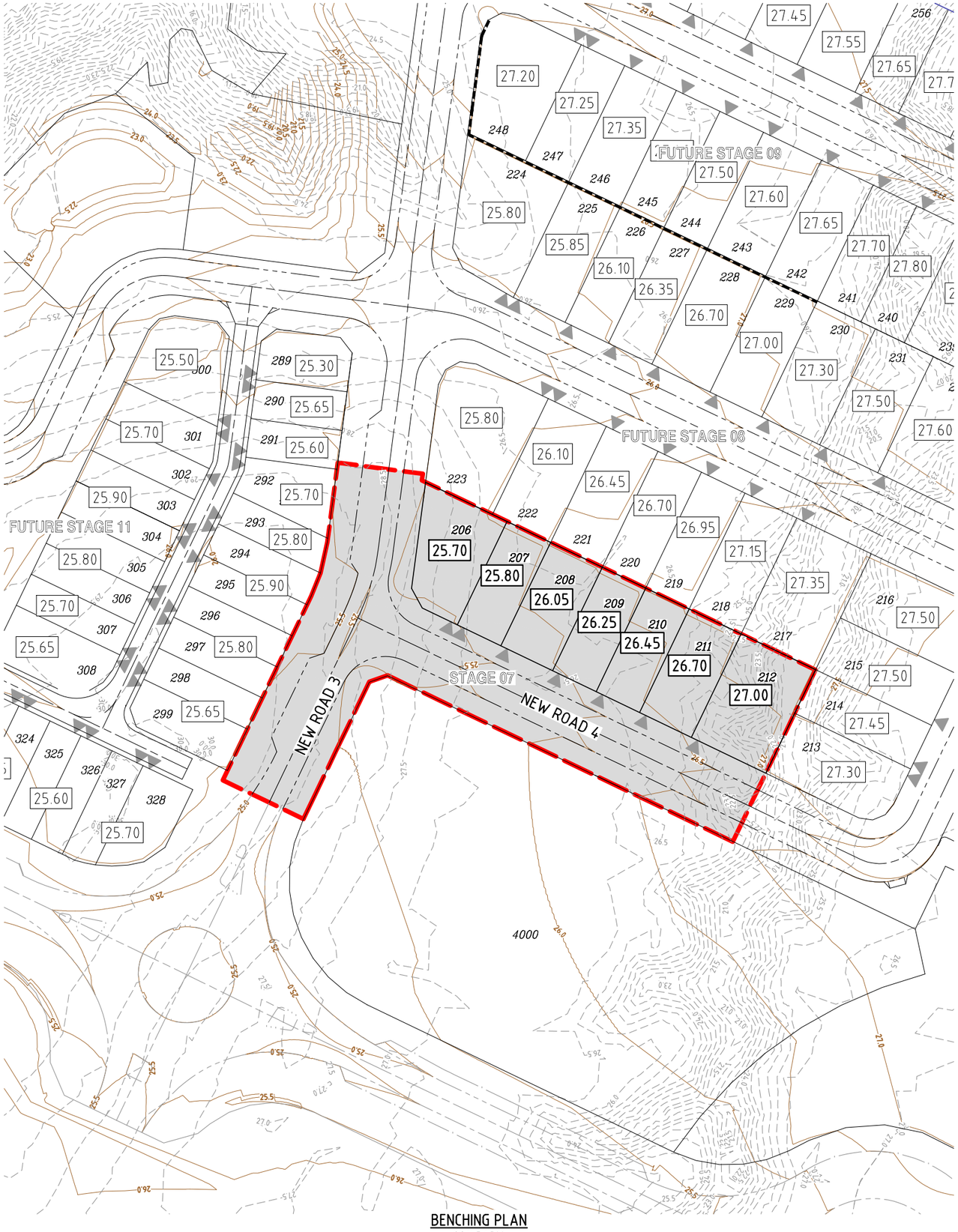
Drawing Title

SEDIMENT BASIN NOTES

Drawn	Designed	Checked	Date
DF	JB	MAS	JAN' 26

Scale	Sheet
AS SHOWN	18 of 21

	Drawing No	Revision
A1	24-277-18	A



BENCHING PLAN
SCALE 1:500

LEGEND

- STAGE BOUNDARY
- PROPOSED ROAD CENTRELINE
- BARRIER KERB AND CHANNEL (TYPE B1)
- MOUNTABLE KERB AND CHANNEL (TYPE M1)
- 36.0 FINISHED SURFACE CONTOURS
- 36.0 NATURAL SURFACE CONTOURS
- EXISTING CONCRETE RETAINING WALL
- CONCRETE RETAINING WALL
- FUTURE RETAINING WALL
- 22.45 PREFERRED BENCH LEVEL
- NOMINATED DRIVEWAY LOCATION

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV-2026-WAR-4914

Date: 10/07/2026

Queensland Government

SCALE
10 5 0 10 20 30 40 50m
1 : 500 (A1 UNREDUCED)

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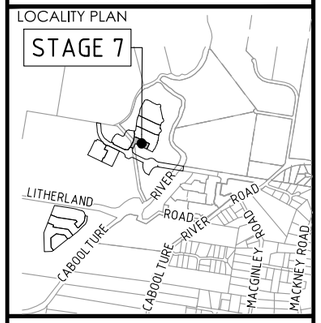
NORTH

LOCALITY PLAN



REVISIONS

No	Description	Date	By
A	FOR APPROVAL	20.02.2026	DF
B	FOR APPROVAL	14.05.2026	DF

Client: Stockland

Project: RIVERMONT PRECINCT 2 STAGE 7

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Digitally signed by Mark Shaw RPEQ 17544
Date: 2026.06.08 14:42:51+10'00'

Drawing Title: PREFERRED BENCHING PLAN

Drawn	Designed	Checked	Date
DF	JB	MAS	MAY' 26

Scale	Sheet
AS SHOWN	19 of 20

Drawing No	Revision
24-277-19	B

A1

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Client: STOCKLAND

Project: RIPEFORD RIDGE PRECINCT 2 STAGE 7

Prepared By: Mark Shaw — Date: 25th May 2024

Reviewed By: Robert Mander — Date: 25th May 2024

Safety in Design Analysis

- Complete Safety in Design Analysis by populating the table where applicable with all of the relevant safety issues for the project. For example:

☒ Positioning of new services adjacent to existing live services	☒ Slope Stability
☒ Construction adjacent to existing road carriageways	☒ Dust Control
☒ Pedestrians	☒ Erosion and Sediment Control/Management
☒ Civil Construction Workers	☒ Sediment Basin Construction
☒ Maintenance Workers	☐ Wetland Construction
☒ Work Place Health and Safety Constraints	☒ Working under traffic
☐ Unusual material handling	
☒ Falls from heights	Project Specific Design Elements:
☒ Underground Services (existing)	
☒ Electrical Service Installation	
☐ Gas Service Installation	
☒ Communication Installation	
☐ Traffic Signal Installation	
☒ Landscape Workers	
☒ Line marking Workers	
☒ Excavation – open cut trenching - Trench excavation depths	
☐ Tunnel Boring	
☒ Confined Spaces	
☐ Lifting of loads	
☐ Unloading of materials and storage	
☐ Storage of hazardous materials	
☒ Geotechnical investigation – works	
☒ Bulk Earthworks	
☐ List all relevant safety studies	

The following table summarises the safety in design issues considered.

Section of Works	Identify any Potential Incident or Hazard	Consequence	Likelihood	Risk Rating	Risk Control Measures	Consequence	Likelihood	Residual Risk Rating (after design applied)	Risk Manager
Earthworks Material Investigation	Geotechnical Investigation	C	3	S	SWMS required by Contractor	D	3	M	Contractor
Road Works	Pedestrians Injury	D	3	M	TMP to be provided by Contractor to exclude pedestrians from work site	E	3	L	Contractor
	Civil Construction Workers – Injury	A	4	H	TMP and SWMS required for all activities	C	2	S	Contractor
	Maintenance Workers	A	4	H	TMP and SWMS required for all activities	C	3	S	Contractor
	Underground Services (Existing)	A	3	H	DBYD information to be sort prior to design. Existing to se located by survey if applicable to design. All existingservices to be located and depths confirmed prior to commencement. SWMS to br provided by Contractor	C	2	S	Designer/ Contractor
Working adjacent to existing Infrastructure	Conflict between construction equipment / personnel and live infrastructure in particular Power lines	B	4	S	All existingservices highlighted in the documentation. Contractorto complete DBYD search before commencing works. SWMS to be provided by Contractor	C	4	M	Designer/ Contractor
Service trench/ pipe installation	Location of all trenches to provide clearance to all other services and all structures or battered embankments	A	4	H	Mains located with safe working clearance to existing pressure mains, structures and battered embankments	C	4	M	Designer
	Trench depth	A	4	M	Depth of trenches minimized for both safety and cost efficiency	C	4	M	Designer
Works within Confined Spaces	Construction of manholes structures	A	4	M	Contractorto ensure works undertaken in a manner complying with safe work method statements	D	5	L	Contractor
Silt and Erosion Control	Public access to water retaining temporary sediment basins	A	5	S	Protection neasures – that is fencing of all water retaining structures with side slopes greater than 1 in 5 as described in International Erosion Control Association (Australasian) Table 89	C	4	M	Designer/ Contractor

RISK ASSESSMENT AND CONTROL

Risk Assessment

Select **one** category from each of the columns below that best represents the likely outcome if the potential hazard actually did occur. For each consequence consider the **most likely outcome** and **not** the 'absolute worst' case.

Consequence		Likelihood	
A	Death – major environmental damage	1	Certain
B	Permanent Disability – severe environmental damage	2	Probable
C	Lost Time Injury – moderate environmental damage	3	Possible
D	Medical Treatment Injury – minor environmental damage	4	Unlikely
E	First Aid Treatment	5	Very Unlikely

RISK RATING

H: High Risk **S: Significant Risk**

M: Moderate Risk **L: Low Risk**

Read the Risk Rating from the matrix below:

Risk Assessment Matrix	A	B	C	D	E
1	H	H	H	S	S
2	H	H	S	S	M
3	H	H	S	M	L
4	H	S	M	L	L
5	S	S	M	L	L

Certain - means an event or situation that is happening more or less all the time, including continuous situatons

Permanent Disability – means a disability, such as loss of a limb or eyesight, loss of hearing, chronic skin discrder, chronic back disorder, emphysema, and the like

Probable – means an event or situation that occurs or is likely to occur about ten times or more per year

Possible – means an event or situation that occurs or is likely to occur about once per year

Unlikely – means an event or situation that occurs or is likely to occur less frequently than once every ten years

Issued 25th May 2024 Rev - A

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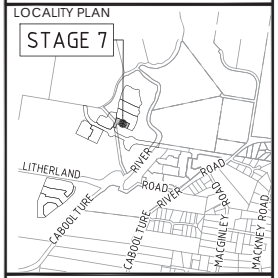
NORTH

LOCALITY PLAN



REVISIONS

No	Description	Date	By
A	FOR APPROVAL	20.02.2026	DF

Client: Stockland

Project: RIVERMONT PRECINCT 2 STAGE 7

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Approved Director - RPEQ 17544

M. Shaw — Digitally signed by Mark Shaw RPEQ 17544 Date: 2026.02.23 12:37:14+10'00'

Drawing Title: SAFETY AND DESIGN

Drawn	Designed	Checked	Date
DF	JB	MAS	JAN' 26

Scale	Sheet
AS SHOWN	20 of 21

	Drawing No	Revision
A1	24-277-20	A