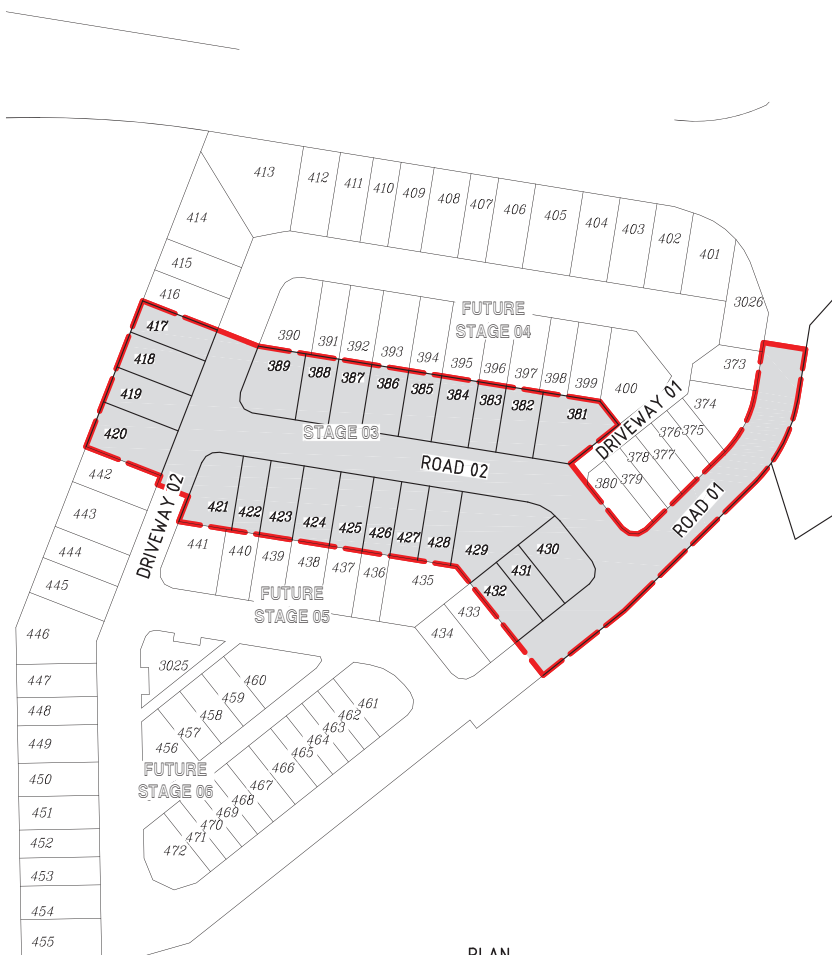




DRAWING NO.	DRAWING TITLE
24-273-01	GENERAL - LOCALITY PLAN, DRAWING INDEX AND NOTES
24-273-02	GENERAL - SETOUT PLAN SHEET 1
24-273-03	GENERAL - SETOUT TABLE SHEET 2
24-273-04	GENERAL - LAYOUT PLAN
24-273-05	EARTHWORKS - CONTOUR PLAN
24-273-06	EARTHWORKS - SPOT LEVELS PLAN SHEET 1
24-273-07	EARTHWORKS - SPOT LEVELS PLAN SHEET 2
24-273-08	ROADWORKS - LONGITUDINAL SECTION ROAD 01
24-273-09	ROADWORKS - CROSS SECTIONS ROAD 01 - SHEET 1
24-273-10	ROADWORKS - CROSS SECTIONS ROAD 01 - SHEET 2
24-273-11	ROADWORKS - LONGITUDINAL SECTION ROAD 02
24-273-12	ROADWORKS - CROSS SECTIONS ROAD 02
24-273-13	ROADWORKS - LONG, AND CROSS SECTIONS DRIVEWAY 02
24-273-14	ROADWORKS - INTERSECTION DETAILS
24-273-15	ROADWORKS - LINEMARKINGS AND SIGNS
24-273-16	STORMWATER - CATCHMENT PLAN
24-273-17	STORMWATER - LONG SECTIONS SHEET 1
24-273-18	STORMWATER - LONG SECTIONS SHEET 2
24-273-19	STORMWATER - LONG SECTIONS SHEET 3
24-273-20	STORMWATER - MANHOLE DETAILS SHEET 1
24-273-21	STORMWATER - MANHOLE DETAILS SHEET 2
24-273-22	STORMWATER - CALCULATION TABLE SHEET 1
24-273-23	STORMWATER - CALCULATION TABLE SHEET 2
24-273-24	STORMWATER - CALCULATION TABLE SHEET 3
24-273-25	STORMWATER - CALCULATION TABLE SHEET 4
24-273-26	STORMWATER - CALCULATION TABLE SHEET 5
24-273-27	SEDIMENT AND EROSION - CONTOUR PLAN POST CONSTRUCTION
24-273-28	SEDIMENT BASIN NOTES
24-273-29	PREFERRED BENCHING PLAN
24-273-30	SAFETY AND DESIGN



PLAN
SCALE 1:1000

Date: 12/06/2026



Queensland
Government

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 15m 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 700mm 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 IPWEO 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 STAKEPICKET AND 2 STRAND WIRE FENCE TO THE PERIMETER OF VEGETATION TO BE RETAINED.

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.

A map of Stage 3 of the Litherland River project. The map shows the Litherland River flowing through the area. Key roads include Carbol Tye Road and Macgawley Road. The map also shows the Litherland River, Carbol Tye Road, and Macgawley Road. The map is labeled with 'STAGE 3' in a box at the top. The map shows the Litherland River, Carbol Tye Road, and Macgawley Road. The map is labeled with 'LITHERLAND', 'CARBOL TYE', and 'MACGAWLEY'.

[illegible]

Project

RIVERMONT
PRECINCT 3
STAGE 3



L1, 62 Astor Terrace, Spring Hill, QLD 4000
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Approved Director - RPEO 17544

Digitally signed by
Mark Shaw RPEQ
17544
Date: 2026.03.30

Drawn RP	Designed VS	Checked MAS	Date DEC ' 25
Scale AS SHOWN			Sheet 01 of 3
A1	Drawing No 24-273-01		Revision B

SCALE  1: 1000 (A1 UNREDUCED)

LOCALITY PLAN

STAGE 3

LITHERLAND RIVER

ROAD 100

ROAD 101

ROAD 102

ROAD 103

ROAD 104

ROAD 105

ROAD 106

ROAD 107

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[illegible]

Stockland

RIVERMONT
PRECINCT 3
STAGE 3



Digitally signed by
Mark Shaw RPEQ
17544
Date: 2026.03.30

Drawn RP	Designed VS	Checked MAS	Date DEC' 25
Scale AS SHOWN			Sheet 02 of 3
A1	Drawing No 24-273-02		Revision B



SCALE  1 : 500 (A1 UNREDUCED)

Queensland
Government

Date: 12/06/2026

SETOUT PLAN
SCALE 1:500

ROAD 01 CONTROL LINE DETAILS										
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE		
IP 1	0.000	8336.394	11409.868	32.174	189°10'00.00"	R = 50.000	31.707	36°20'00.00"		
TC	80.759	8323.529	11330.141	30.891	189°10'00.00"					
IP 2	96.612	8320.915	11313.943	30.685	225°30'00.00"					
CT	112.466	8309.213	11302.443	30.479						
TC	174.450	8265.003	11258.998	30.405	225°30'00.00"	R = 100.000	10.472	6°00'00.00"		
IP 3	179.686	8261.265	11255.325	30.431	231°30'00.00"					
CT	184.922	8257.163	11252.062	30.457					231°30'00.00"	
TC	243.326	8211.456	11215.705	30.749	R = 10.000					15.708
IP 4	251.180	8203.630	11209.480	30.789		321°30'00.00"				
CT	259.034	8197.404	11217.306	30.837			321°30'00.00"			
TC	271.975	8189.348	11227.434	30.940		R = -26.000		19.210	42°20'00.00"	
IP 5	281.580	8183.081	11235.313	31.017	279°10'00.00"					
CT	291.186	8173.142	11236.916	31.095			279°10'00.00"			
TC	374.485	8090.907	11250.187	31.764	R = -10.000					13.601
IP 6	381.285	8082.923	11251.475	31.819		201°14'23.88"				
CT	388.085	8079.993	11243.937	31.873			201°14'23.88"			
TC	392.022	8078.567	11240.268	31.905		R = -22.000		8.530	22°12'53.72"	
IP 7	396.287	8077.002	11236.242	31.939	179°01'30.16"					
CT	400.552	8077.076	11231.923	31.973			179°01'30.16"			
TC	479.456	8078.418	11153.031	32.172	R = -18.500					20.588
IP 8	489.750	8078.614	11141.526	32.079		115°15'45.08"				
CC	500.044	8089.020	11136.615	31.987			R = -18.500	20.588	63°45'45.08"	
IP 9	510.338	8099.427	11131.704	31.896		R = -30.000				
CT	520.632	8108.432	11138.867	31.816	51°30'00.00"					
TC	623.837	8189.201	11203.114	30.709			51°30'00.00"			
IP 10	627.999	8192.480	11205.722	30.689	35°36'05.38"					
CT	632.162	8194.918	11209.128	30.695						
IP 11	639.875	8199.409	11215.400							

ROAD 02 CONTROL LINE DETAILS								
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
30	0.000	8269.889	11263.800	30.371	315°30'00.00"	R = 30.000	3.142	6°00'00.00"
TC	11.536	8261.803	11272.028	30.252	315°30'00.00"			
IP 2	13.106	8260.701	11273.149	30.254				
CT	14.677	8259.723	11274.379	30.264	321°30'00.00"			
TC	33.154	8248.221	11288.839	30.724	321°30'00.00"	R = -26.000	19.210	42°20'00.00"
IP 3	42.759	8241.954	11296.718	31.002				
CT	52.364	8232.015	11298.322	31.281	279°10'00.00"			
TC	164.751	8121.063	11316.226	32.403	279°10'00.00"			
IP 4	173.659	8108.856	11318.196	32.447		R = 10.000	17.815	102°04'23.88"
CT	182.566	8113.335	11329.721	32.492	21°14'23.88"			
TC	232.675	8131.488	11376.425	32.683	21°14'23.88"			
IP 5	239.475	8134.418	11383.963	32.666				
CT	246.275	8142.402	11382.675	32.635	99°10'00.00"	R = 10.000	13.601	77°55'36.12"
TC	376.380	8270.846	11361.948	31.968	99°10'00.00"			
IP 6	383.490	8277.999	11360.794	31.900				
CT	390.600	8283.837	11356.502	31.832	126°19'26.40"			
IP 7	403.039	8293.858	11349.134		126°19'26.40"	R = 30.000	14.220	27°09'26.40"

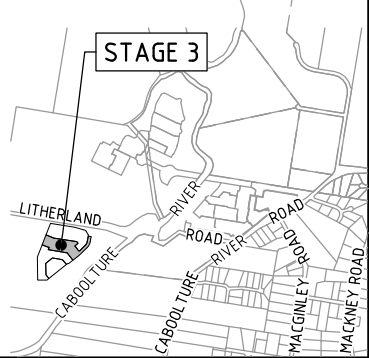
DRIVEWAY 01 CONTROL LINE DETAILS								
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	8242.919	11293.858	30.936	35°21'34.33"			
TC	9.284	8248.292	11301.429	31.033	35°21'34.33"			
IP 2	10.692	8249.112	11302.585	31.067		R = 10.000	2.817	16°08'25.68"
CT	12.101	8250.222	11303.468	31.100	51°30'00.00"			
TC	54.738	8283.590	11330.010	31.904	51°30'00.00"			
IP 3	58.432	8286.621	11332.421	31.965		R = -10.000	7.389	42°20'00.00"
CT	62.127	8287.238	11336.243	31.984	9°10'00.00"			
TC	66.663	8287.960	11340.722	31.942	9°10'00.00"			
IP 4	67.717	8288.129	11341.769	31.916		R = -8.000	2.109	15°06'23.16"
CT	68.772	8288.019	11342.824	31.889	354°03'36.84"			
IP 5	71.315	8287.756	11345.353		354°03'36.84"			

DRIVEWAY 02 CONTROL LINE DETAILS								
30	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	8114.651	11320.105	32.441	233°10'36.22"	R = -6.000	3.344	31°56'12.34"
TC	10.968	8105.871	11313.531	32.556	233°10'36.22"			
IP 2	12.640	8104.497	11312.502	32.571				
CT	14.313	8103.875	11310.902	32.579	201°14'23.88"			
TC	65.165	8085.453	11263.504	31.996	201°14'23.88"	R = -6.000	3.462	33°03'44.77"
IP 3	66.896	8084.807	11261.844	31.955				
CT	68.627	8085.172	11260.101	31.913	168°10'39.11"			
IP 4	78.842	8087.265	11250.102	31.793	168°10'39.11"			

DO NOT SCALE THIS DRAWING
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LOCALITY PLAN



REVISIONS

[illegible]

Client



Project

RIVERMONT
PRECINCT 3
STAGE 3



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

Approved Director - RPEQ 1754

M. Shaw

Digitally signed by Mark
Shaw RPEQ 17544
Date: 2025.12.16
14:49:39+10'00'

Drawing Title

GENERAL
SETOUT TABLE
SHEET 2

Drawn RP	Designed VS	Checked MAS	Date DEC '25
Scale AS SHOWN			Sheet 03 of 30
A1	Drawing No 24-273-03		Revision A

COMPLIANCE APPROVAL
referred to in the PDA
DEVELOPMENT APPROVAL

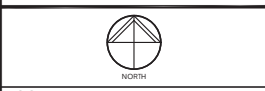
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Condition no: 51

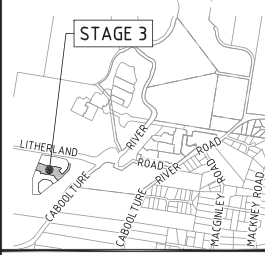
Date: 12/06/2026



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LOCALITY PLAN



REVISIONS

No	Description	Date	By
A	FOR APPROVAL	2025.12.16	VS
B	FOR APPROVAL	2026.03.27	DF

Client



Project

RIVERMONT
PRECINCT 3
STAGE 3



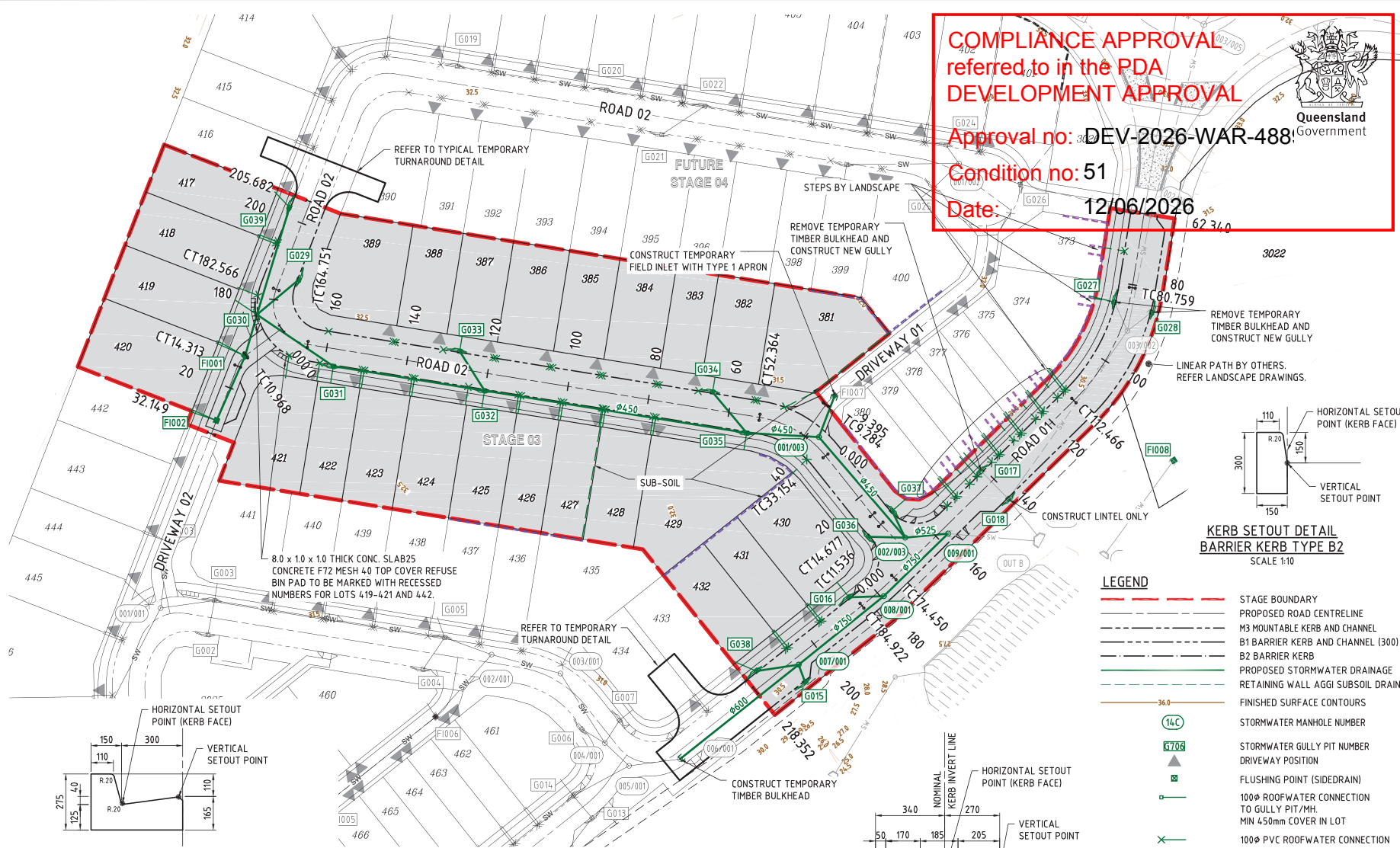
L1, 62 Astor Terrace, Spring Hill, QLD 4000
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Approved Director - RPQ 17544
Digitally signed by Mark Shaw RPQ 17544
Date: 2026.03.30 06:45:28 +1000

Drawing title

GENERAL
LAYOUT PLAN

Drawn	Designed	Checked	Date
RP	VS	MAS	DEC '25
Scale	Sheet	Revision	
AS SHOWN	04 of 30		
Drawing No	Revision		
A1	24-273-04		B

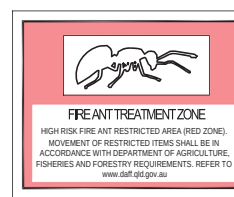
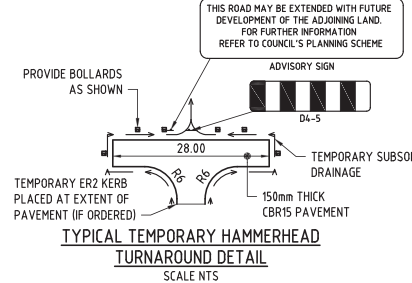
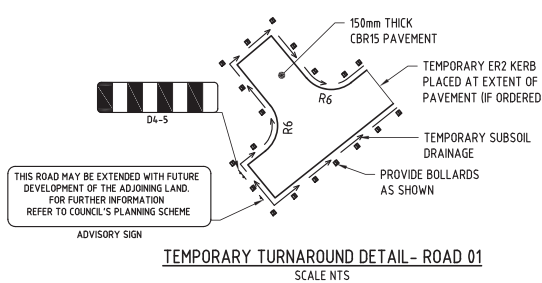


KERB SETOUT DETAIL
BARRIER KERB AND CHANNEL TYPE B1
SCALE 1:10

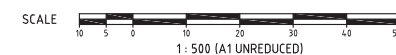
LAYOUT PLAN
SCALE 1:500

KERB SETOUT DETAIL -
MOUNTABLE KERB AND CHANNEL TYPE M3
SCALE 1:10

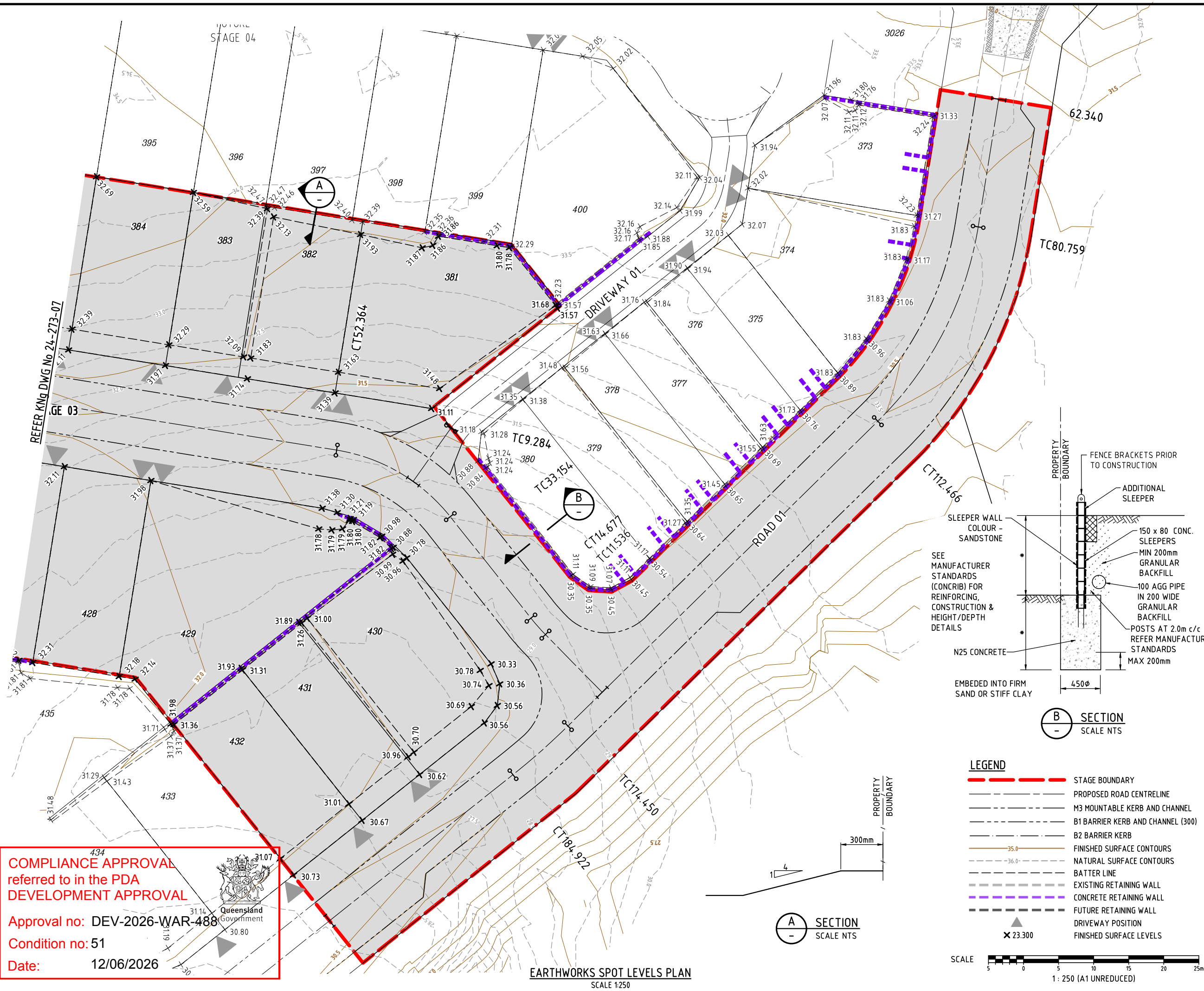
- LEGEND**
- STAGE BOUNDARY
 - PROPOSED ROAD CENTRELINE
 - M3 MOUNTABLE KERB AND CHANNEL
 - B1 BARRIER KERB AND CHANNEL (300)
 - B2 BARRIER KERB
 - PROPOSED STORMWATER DRAINAGE
 - RETAINING WALL AGGI SUBSOIL DRAIN
 - FINISHED SURFACE CONTOURS
 - STORMWATER MANHOLE NUMBER
 - STORMWATER GULLY PIT NUMBER
 - 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
 - FUTURE CONCRETE BLOCK MASONRY WALL
 - CONCRETE SLEEPER RETAINING WALL
 - FUTURE RETAINING WALL
 - EXISTING STORMWATER
 - EXISTING WATER MAIN

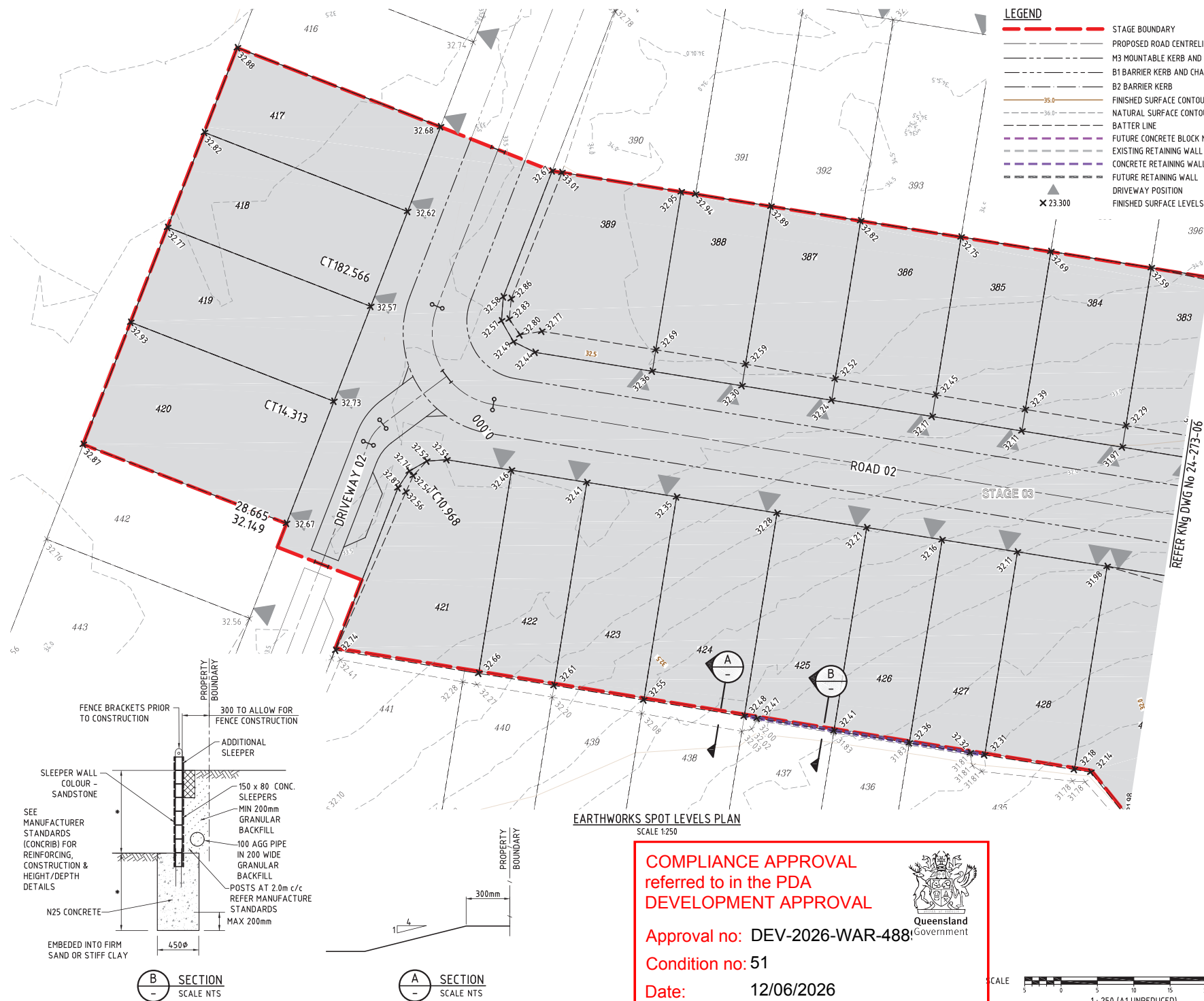


PROPOSED WORKS ARE NEAR EXISTING SERVICES. CONTRACTOR TO COMPLETE DBYD AND LOCATE ALL EXISTING SERVICES PRIOR TO COMMENCING CONSTRUCTION. POST SERVICE LOCATION, CONTRACTOR TO SUPPLY SURVEY INFORMATION TO SUPERINTENDENT'S REPRESENTATIVE PRIOR TO THE COMMENCEMENT OF WORK.



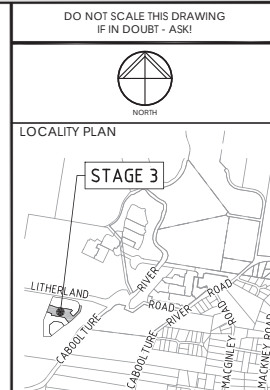
M:\2024\24273 Rivermont P2 Stage 3\Engineering\Kad\24-273-06-07-EW-SP01-LEVEL.dwg Plotted by: VS on 16/12/2025 2:26:08 PM





LEGEND

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



~~40mm 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 = 1.2×10^4

[illegible]

(A1 UNREDUCED)

A map of Stage 3 of the Caboolture Water Treatment Plant project. The map shows the Caboolture River flowing through the area. To the west of the river is Litherland, marked with a black dot. To the east of the river is Caboolture, with several residential areas. Roads shown include Caboolture Road, Macgillivray Road, and Mackney Road. A box labeled 'STAGE 3' is located in the upper left corner of the map area.

[illegible]

Stockland

RIVERMONT
PRECINCT 3
STAGE 3



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

M. Shaw Digitally signed by Mark
Shaw RPEQ 17544
Date: 2025.12.16
14:49:40+10'00'

ROADWORKS
LONGITUDINAL SECTION
ROAD 01

Drawn RP	Designed VS	Checked MAS	Date DEC' 25
Scale AS SHOWN			Sheet 08 of 30
A1	Drawing No 24-273-08		Revision A

COMPLIANCE APPROVAL
referred to in the PDA
DEVELOPMENT APPROVAL

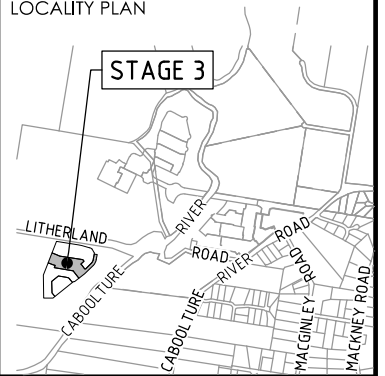
Approval no: DEV-2026-WAR-488!

Condition no: 51

Date: 12/06/2026



LOCALITY PLAN

[illegible]

Client



Project

RIVERMONT
PRECINCT 3
STAGE 3



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: 2025.12.16
14:49:41+10'00'

Drawing Title

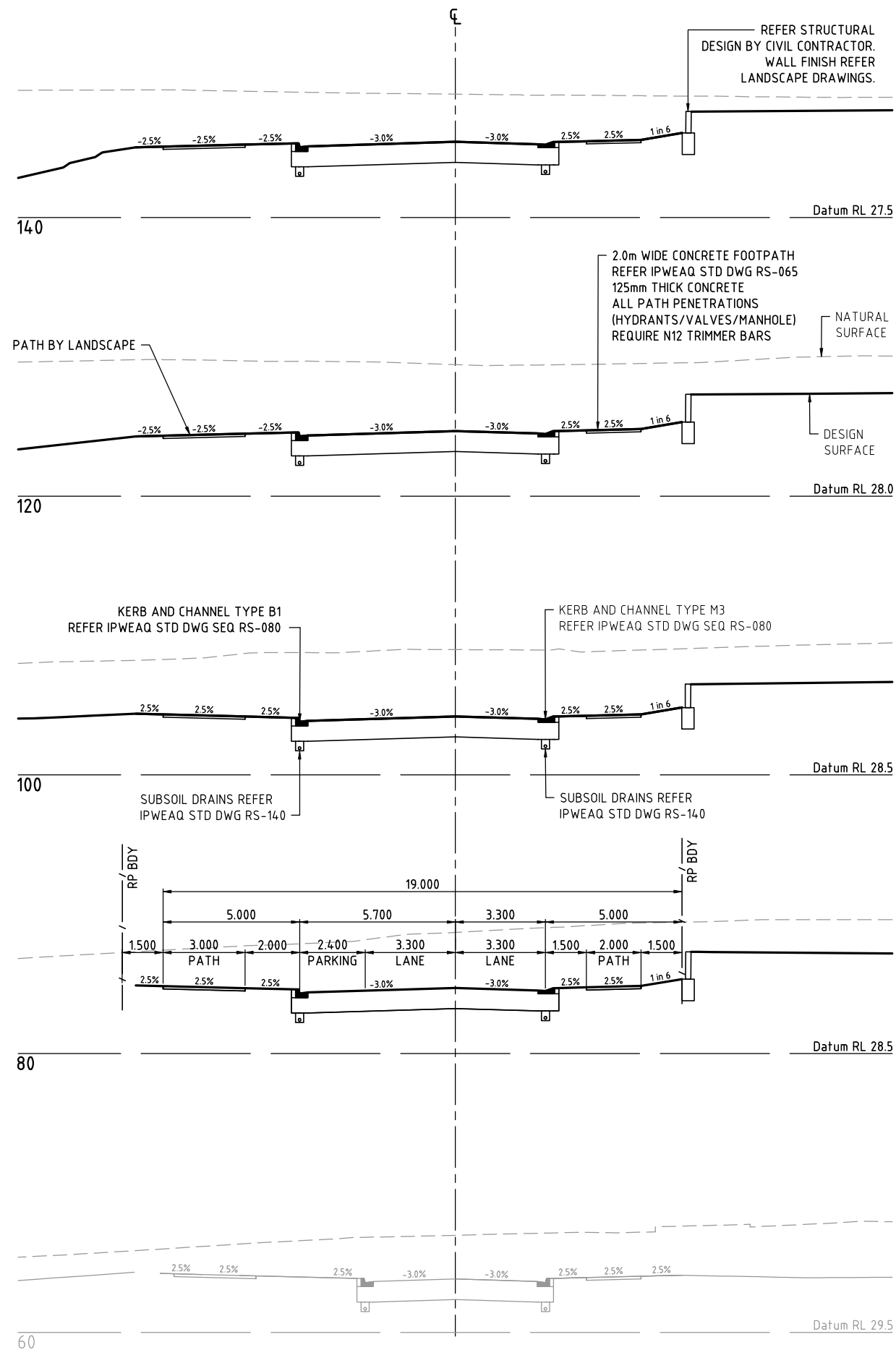
ROADWORKS
CROSS SECTIONS
ROAD 01 - SHEET 1

Drawn RP	Designed VS	Checked MAS	Date DEC' 25
Scale AS SHOWN			Sheet 09 of 30
A1	Drawing No 24-273-09	Revision A	

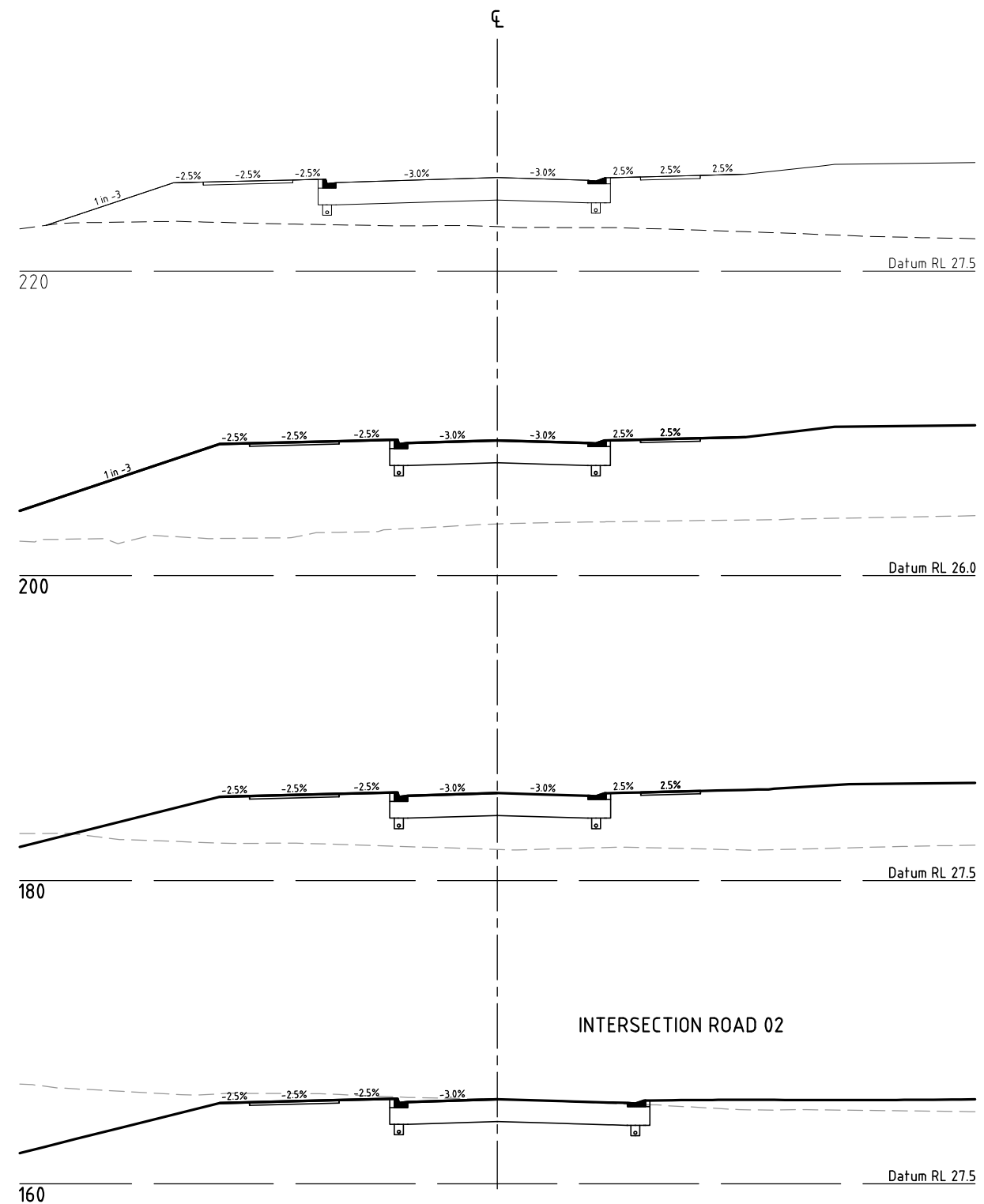


Condition no: 51

Date: 12/06/2026



CROSS SECTIONS - ROAD 01



INTERSECTION ROAD 02

SCALE 
1 : 100 (A1 UNREDUCED)

Pavement Design not
- approved - See
Conditions

Pavement Design not approved - See Conditions

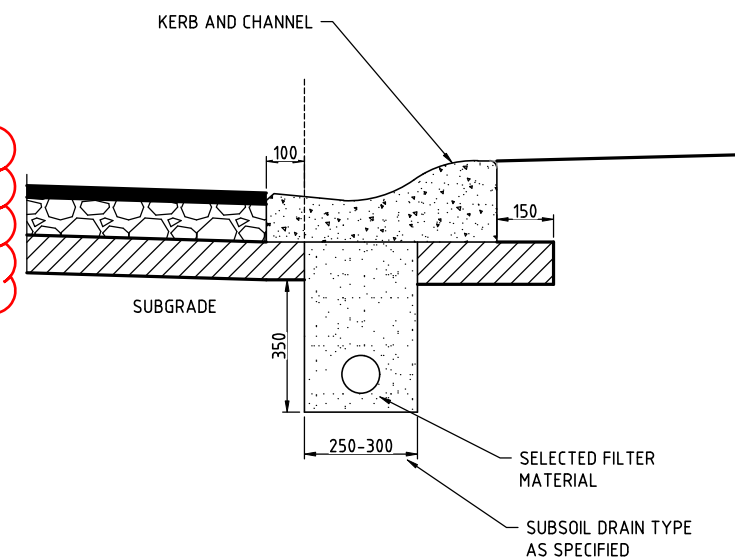
COMPLIANCE APPROVAL
referred to in the PDA
DEVELOPMENT APPROVAL



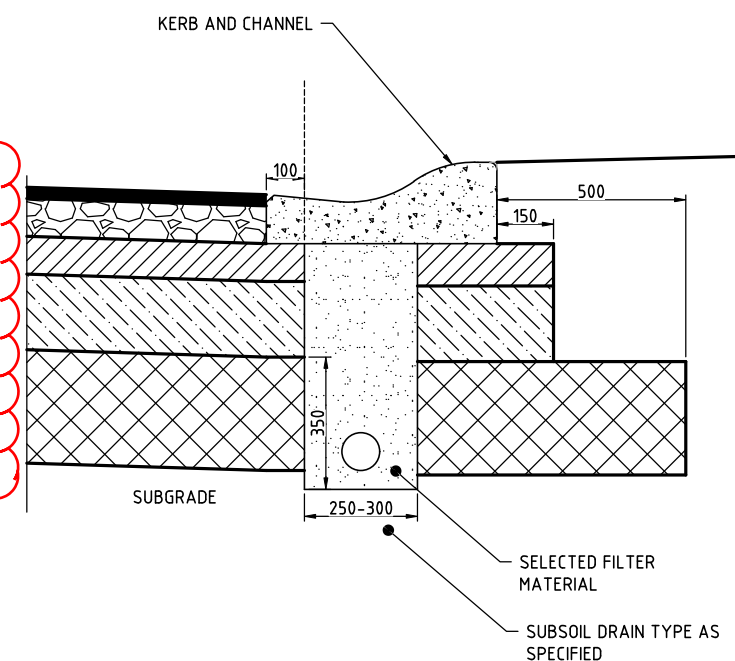
Approval no: DEV-2026-WAR-4889

Condition no: 51

Date: 12/06/2026



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



TYPICAL SECTION ROADS ESA 1.2x10⁵
LESS THAN INSITU CBR 3, SWELLS >5%
SCALE 1:10

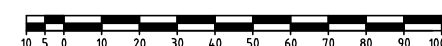


SCALE - 1:1000 (H)
1:100 (V)

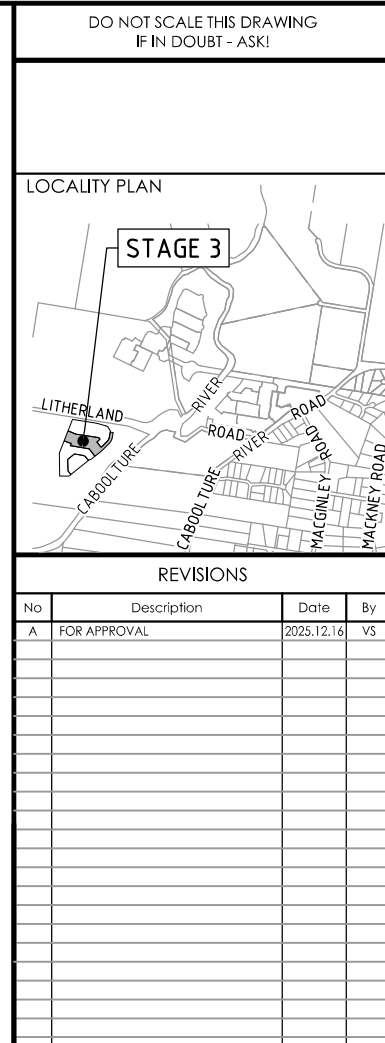
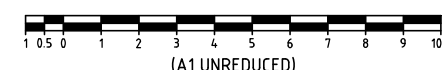
 REFER INTERSECTION DETAILS ON
KN DWG 24-273-14.



SCALE A 1:1000
(Horiz)



B 1:100
(Vert.)



Project

RIVERMONT
PRECINCT 3
STAGE 3



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Approved Director - RPEQ 17544

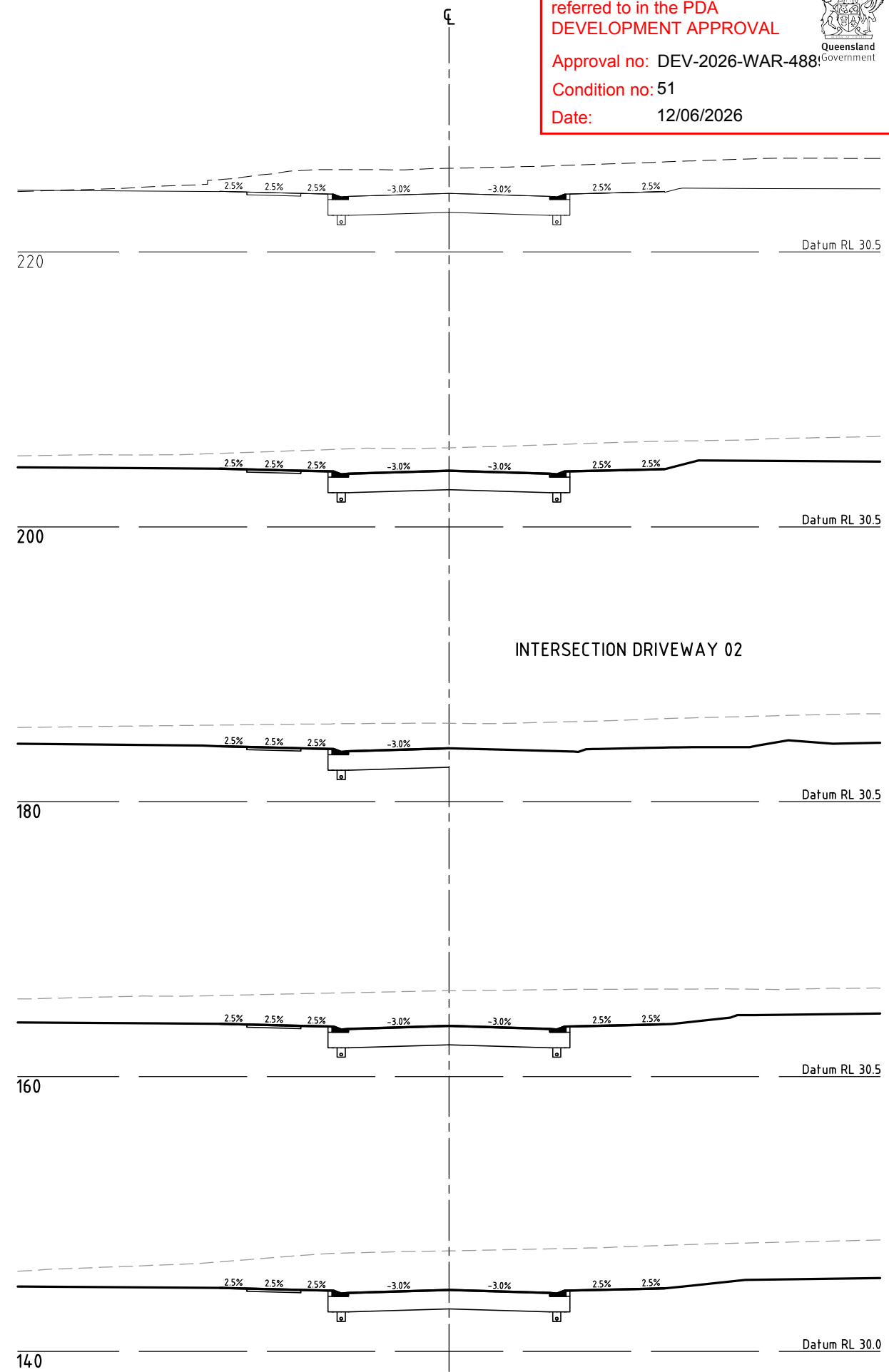
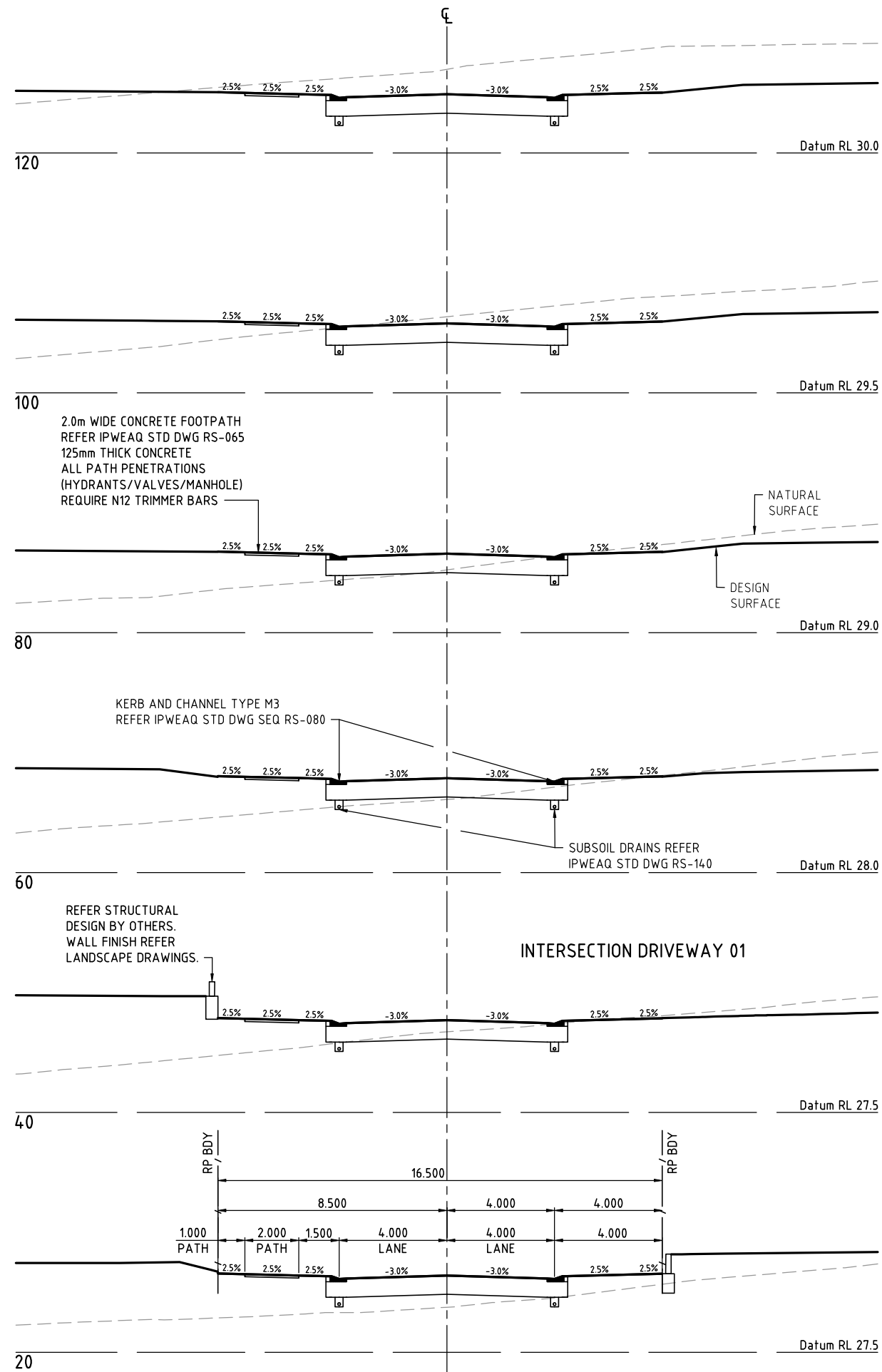
M. Shaw

Digitally signed by Mark
Shaw RPEQ 17544
Date: 2025.12.16
14:49:41+10'00"

Drawing Title

ROADWORKS
CROSS SECTIONS
ROAD 01 - SHEET 2

Drawn RP	Designed VS	Checked MAS	Date DEC' 25
Scale AS SHOWN			Sheet 10 of 30
A1	Drawing No 24-273-10		Revision A



COMPLIANCE APPROVAL
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV-2026-WAR-488!

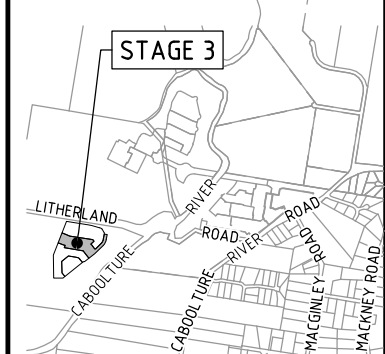
Condition no: 51

Date: 12/06/2026



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LOCALITY PLAN



REVISIONS

[illegible]

Client



Project

RIVERMONT
PRECINCT 3
STAGE 3



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Approved Director - RPEQ 17544

M. Shaw Digitally signed by Mark Shaw RPEQ 17544
Date: 2025.12.16 14:49:42+10'00'

Drawing Title

ROADWORKS
LONGITUDINAL SECTION
ROAD 02

Drawn RP	Designed VS	Checked MAS	Date DEC ' 25
Scale AS SHOWN			Sheet 11 of 30
A1	Drawing No 24-273-11		Revision A

M:\2024\24273 Rivermont P2 Stage 3\Engineering\Acad\24-273-08-13-RD-LONG-CROSS.dwg Plotted by: VS on 16/12/2025 2:27:07 PM

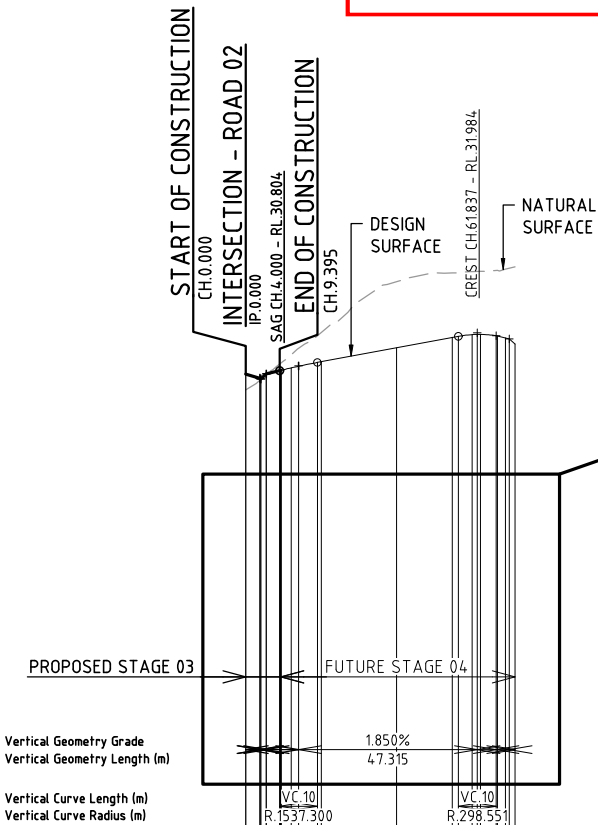
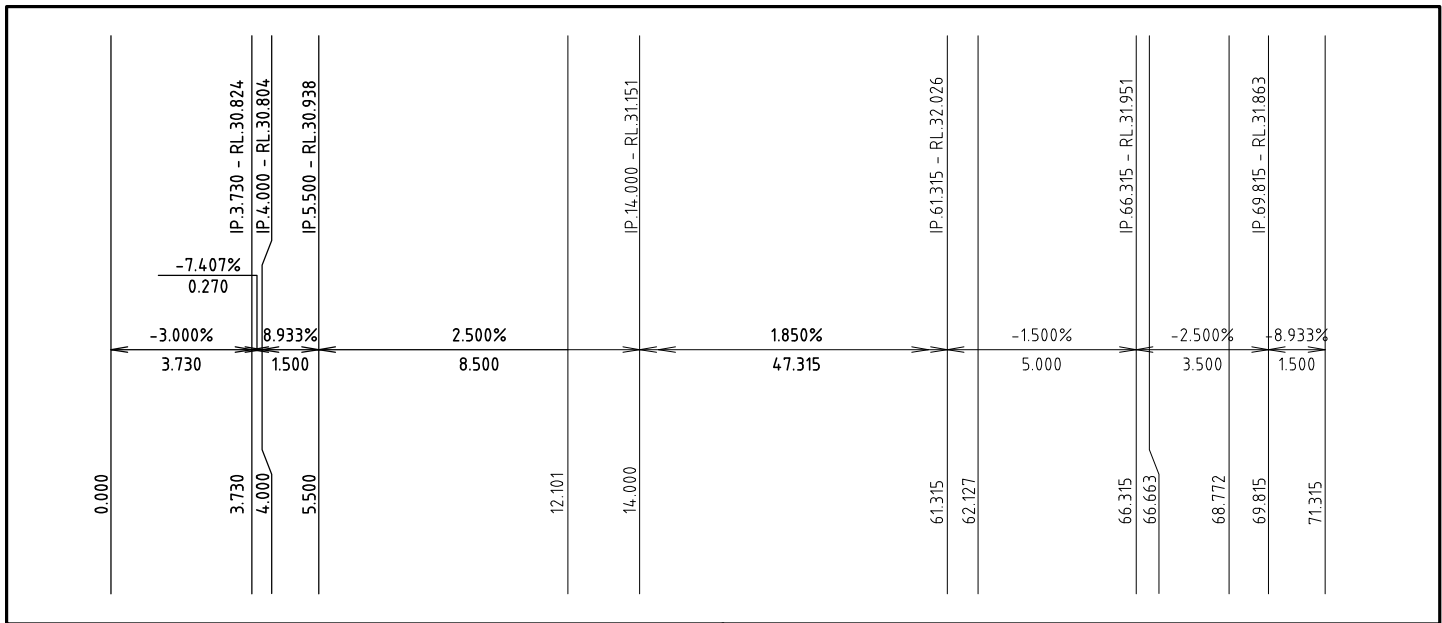
NOMINAL PAVEMENT DETAILS	
LANEWAY RESIDENTIAL	
175mm	N4.0 CONCRETE - EXPOSED AGGREGATE
SL92	REINFORCEMENT WITH 50mm TOP COVER INCLUDING CROSS OVER
200mm	COMPACTED CBR4.5 GRAVEL(TYPE 2.3)
360mm	SUBGRADE REPLACEMENT(TYPE 2.5, CBR 15)
DESIGN ESA = 2.5x10 ³	
COLOUR: PLAIN GREY	
AGGREGATE: HY-TEC JAFFA 90	

COMPLIANCE APPROVAL
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV-2026-WAR-488

Condition no: 51

Date: 12/06/2026



DATUM R.L. 18.000												FUTURE INTERSECTION	
LIP OF KERB LHS		*											
LIP OF KERB RHS													
NATURAL SURFACE		30.515	30.771	30.798	30.944	31.200	31.223	31.062	31.053	31.024	31.035	31.040	31.154
CUT/FILL DEPTH		0.421	0.053	0.007	-0.006	-0.175	-0.190	-0.196	-0.196	-0.196	-0.196	-0.196	-0.196
DESIGN SURFACE		30.936	30.824	30.804	30.938	31.026	31.033	31.035	31.035	31.035	31.035	31.035	31.035
PEGGED CHAINAGE		0.000	3.730	4.000	5.500	9.000	9.284	9.395	12.101	14.000	19.000	20.000	40.000

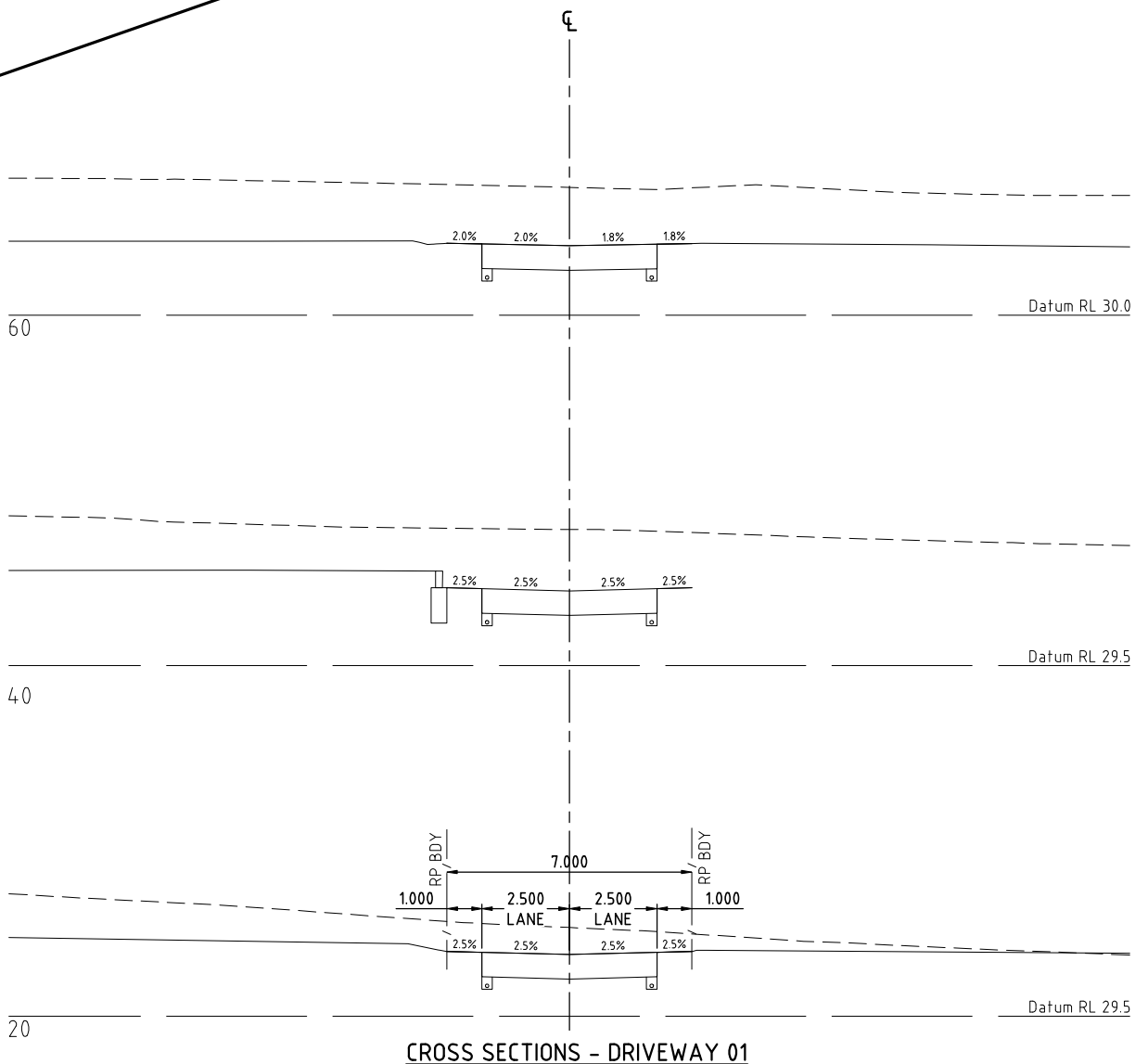
Horiz Curve Data		R.10		R.10		R.8	
		12.817	7.389	7.389	2.109	2.109	2.109

LONGITUDINAL SECTION - DRIVEWAY 01

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

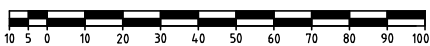


REFER
INTERSECTION DETAILS ON
KN DWG 24-273-14

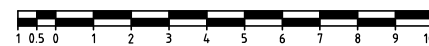


CROSS SECTIONS - DRIVEWAY 01

SCALE A 1:1000
(Horiz.)



B 1:100
(Vert.)



(A1 UNREDUCED)

DO NOT SCALE THIS DRAWING
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LOCALITY PLAN



REVISIONS

No	Description	Date	By
A	FOR APPROVAL	2025.12.16	VS

Client



Project

RIVERMONT
PRECINCT 3
STAGE 3



Approved Director - RPEQ 17544

M. Shaw

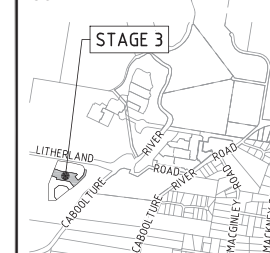
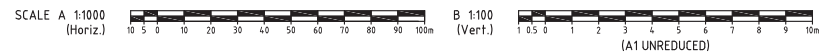
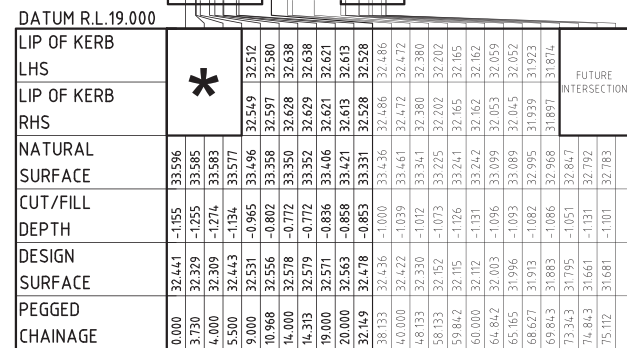
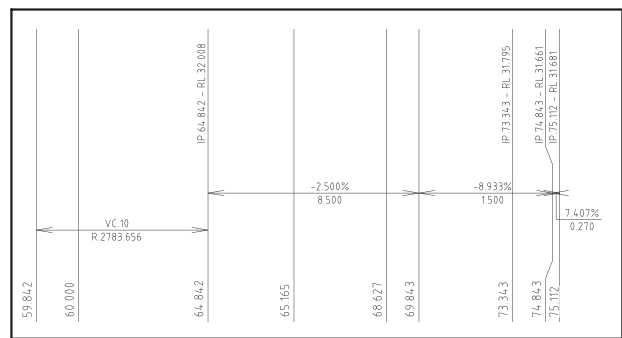
Digitally signed by Mark
Shaw RPEQ 17544
Date: 2025.12.16
14:49:42+10'00'

Drawing Title

ROADWORKS
CROSS SECTIONS
ROAD 02

Drawn	Designed	Checked	Date
RP	VS	MAS	DEC '25
Scale			Sheet
AS SHOWN			12 of 30
Drawing No		Revision	
A1		24-273-12	

NOMINAL PAVEMENT DETAILS
LANEWAY RESIDENTIAL
175mm N10 CONCRETE - EXPOSED AGGREGATE
502 REINFORCEMENT WITH 50mm TOP COVER INCLUDING CROSS-OVER
200mm COMPACTED CBR15 GRAVEL (TYPE 2-3)
360mm SUBGRADE REPLACEMENT (TYPE 2.5 CBR 15)
DESIGN ESA = 2.5×10^3
CLOUR: PLAIN GREY
AGGREGATE: HY-TEC JAFFA 90



Client				
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Project	
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RIVERMONT
PRECINCT 3
STAGE 3



Approved Director - RPEO 17544

Digitally signed by
Mark Shaw RPEQ
17544
Date: 2026.03.30
00:10:00 +1000

Drawing Title 00-43-20-1000

ROADWORKS
LONG, AND CROSS SECTIONS
DRIVEWAY 02

Drawn RP	Designed VS	Checked MAS	Date DEC ' 25
Scale AS SHOWN			Sheet 13 of 3
A1	Drawing No 24-273-13		Revision B

SETOUT TABLE

PT No.	EASTING	NORTHING	LEVEL
27	8114.525	11314.701	32.295
28	8113.316	11315.669	32.300
29	8111.850	11314.572	32.442
30	8107.015	11310.951	32.615
31	8105.018	11308.322	32.631
32	8104.483	11306.945	32.627
33	8105.797	11303.977	32.670
34	8103.450	11297.939	32.625
35	8100.473	11296.628	32.551
36	8102.317	11312.414	32.628
37	8105.644	11316.796	32.554
38	8108.553	11318.974	32.460
39	8110.019	11320.072	32.320
40	8109.431	11321.505	32.325
41	8117.708	11330.675	32.392
42	8117.169	11327.062	32.369
43	8118.240	11323.569	32.335
44	8120.710	11320.878	32.302
45	8124.099	11319.514	32.278

SETOUT TABLE

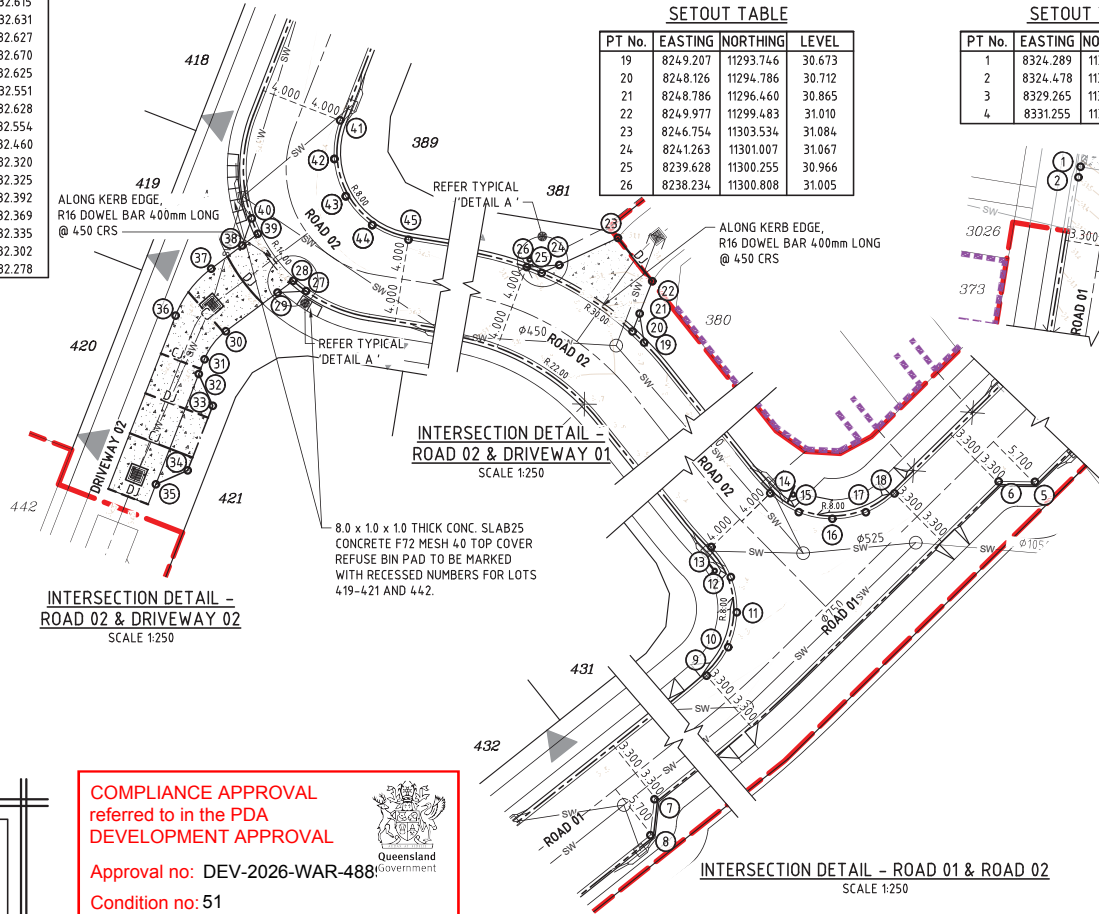
PT No.	EASTING	NORTHING	LEVEL
19	8249.207	11293.746	30.673
20	8248.126	11294.786	30.712
21	8248.786	11296.460	30.865
22	8249.977	11299.483	31.010
23	8246.754	11303.534	31.084
24	8241.263	11301.007	31.067
25	8239.628	11300.255	30.966
26	8238.234	11300.808	31.005

SETOUT TABLE

PT No.	EASTING	NORTHING	LEVEL
1	8324.289	11353.873	31.504
2	8324.478	11354.855	31.565
3	8329.265	11346.859	31.209
4	8331.255	11344.125	31.044

SETOUT TABLE

PT No.	EASTING	NORTHING	LEVEL
5	8289.466	11275.467	30.107
6	8286.075	11275.500	30.185
7	8244.478	11238.138	30.460
8	8244.100	11234.771	30.400
9	8258.749	11257.330	30.343
10	8260.771	11259.999	30.307
11	8261.569	11263.252	30.234
12	8261.012	11266.554	30.165
13	8259.191	11269.364	30.140
14	8264.707	11274.398	30.140
15	8267.372	11272.628	30.156
16	8270.511	11272.002	30.191
17	8273.652	11272.614	30.221
18	8276.325	11274.373	30.220

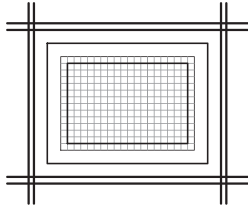


COMPLIANCE APPROVAL
referred to in the PDA
DEVELOPMENT APPROVAL

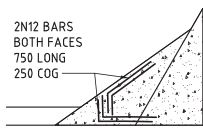
Approval no: DEV-2026-WAR-488

Condition no: 51

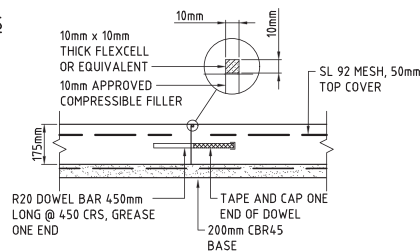
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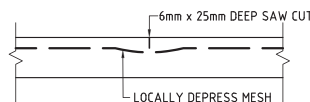
REINFORCING DETAIL AT INLETS
SCALE - NTS



DETAIL A
TYPICAL TREATMENT
N.T.S.



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



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

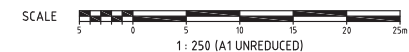
LEGEND

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

DRIVEWAY SETOUT AND LEVELS ONLY CONSTRUCTED
IN ACCORDANCE WITH IPWEAQ STANDARD DWG RS-051.
175mm THICK, SL92 MESH, N40 CONCRETE, 50mm TOP COVER.
MINIMUM 200mm CBR45 BASE.
COLOUR: PLAIN GREY (EXPOSED AGGREGATE)

GENERAL NOTES

1. SETOUT POINTS ARE GIVEN AT KERB LIP LEVELS.
2. KERB LIP LEVELS ARE GIVEN AT QUARTER POINTS, TP'S AND EQUAL PARTS U.N.O.
3. KERB OFFSETS ARE GIVEN TO THE KERB FACE.
4. KERB RADII ARE GIVEN TO THE KERB LIP
5. EXTRA DETAIL FOR SETTING OUT IS AVAILABLE ON CAD FILE.



DO NOT SCALE THIS DRAWING
IF IN DOUBT - ASK!



LOCALITY PLAN



REVISIONS

No	Description	Date	By
A	FOR APPROVAL	2025.12.16	VS
B	FOR APPROVAL	2026.03.27	DF

Client



Project

RIVERMONT
PRECINCT 3
STAGE 3



L1, 62 Astor Terrace, Spring Hill, QLD 4000
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Approved Director - IPWEAQ 17544

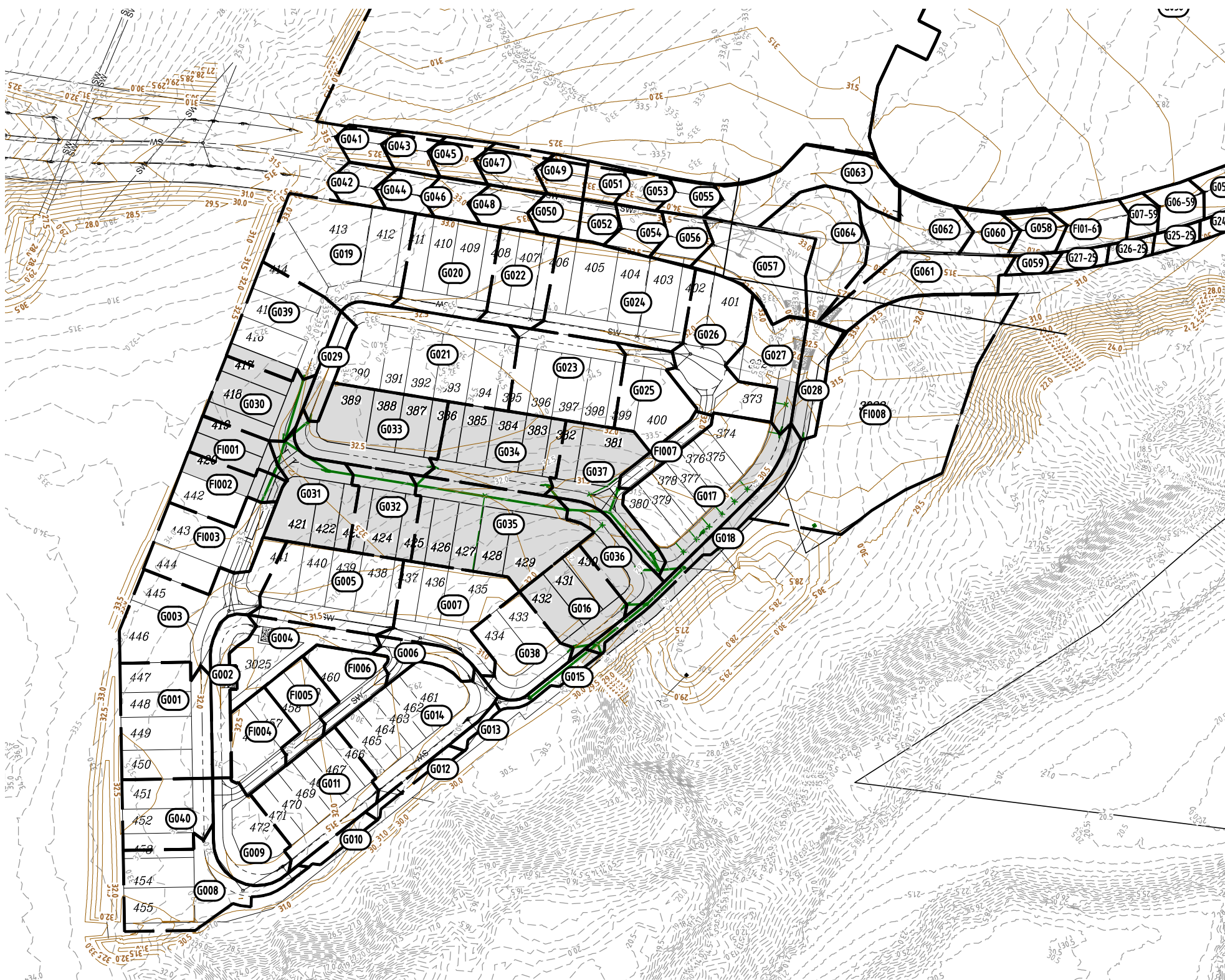
Digitally signed by
Mark Shaw RPEQ
17544
Date: 2026.03.30
06:45:21+1000

Drawing title

ROADWORKS
INTERSECTION DETAILS

Drawn	Designed	Checked	Date
LNT	VS	MAS	DEC' 25
Scale	Sheet	Revision	
AS SHOWN	14 of 30		
Drawing No	Revision		
A1	24-273-14		B

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CATCHMENT PLAN
SCALE 1:1000

COMPLIANCE APPROVAL
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV-2026-WAR-488

Condition no: 51

Date: 12/06/2026



Queensland
Government

LEGEND

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

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

CATCHMENT TABLE

CATCHMENT NO.	AREA (ha)
G041	0.032
G043	0.033
G045	0.035
G047	0.045
G042	0.034
G044	0.034
G046	0.034
G048	0.042
G019	0.225
G020	0.150
G049	0.031
G051	0.026
G053	0.030
G055	0.030
G050	0.033
G052	0.027
G054	0.039
G056	0.039
G021	0.261
G023	0.165
G025	0.101
G058	0.038
G060	0.038
G062	0.107
G022	0.100
G059	0.016
G061	0.122
G024	0.232
G026	0.166
G057	0.132
G063	0.141
G064	0.131
G027	0.096
G017	0.243
G028	0.058
G015	0.022

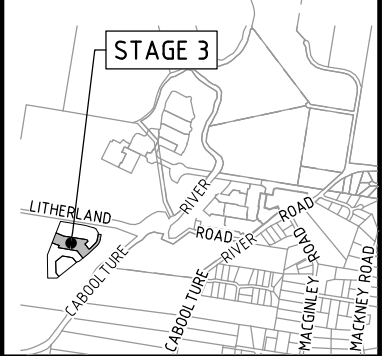
CATCHMENT TABLE

CATCHMENT NO.	AREA (ha)
G018	0.060
F1002	0.085
F1001	0.057
F1003	0.132
G002	0.067
G004	0.101
F1004	0.085
F1005	0.067
F1006	0.071
G001	0.067
G003	0.101
G005	0.184
G008	0.167
G010	0.020
G012	0.019
G013	0.010
G040	0.110
G009	0.105
G011	0.169
G029	0.036
G039	0.150
G030	0.107
G031	0.130
G006	0.043
G014	0.205
G007	0.152
G033	0.182
G032	0.098
G034	0.168
G035	0.240
F1007	0.033
G016	0.116
G036	0.079
G038	0.109
G037	0.132
F1008	0.586

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LOCALITY PLAN



REVISIONS

No	Description	Date	By
A	FOR APPROVAL	2025.12.16	VS

Client



Project

RIVERMONT
PRECINCT 3
STAGE 3



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: 2025.12.16 14:49:44+10'00'

STORMWATER
CATCHMENT PLAN

Drawn RP	Designed VS	Checked MAS	Date DEC '25
Scale AS SHOWN	Drawing No 24-273-16	Sheet 16 of 30	Revision A

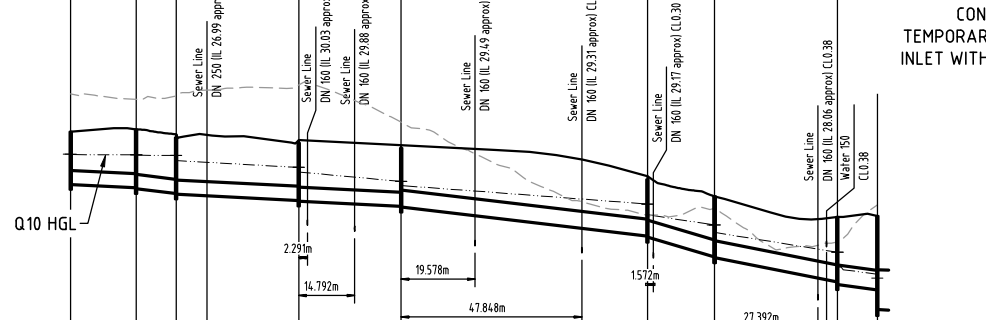
M:\2024\24273 RIVERMONT P2 Stage 3\Engineering\Acad\24-273-17-19-SW-LS.dwg Plotted by: VS on 16/12/2025 2:28:04 PM

STRUCTURE NAME	STRUCTURE DESCRIPTION
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NOTE:
F1512 CONTRACTOR TO PROVIDE FORM 15 AND 12 FOR ALL MAINTENANCE HOLES GREATER THAN 3m DEPTH.

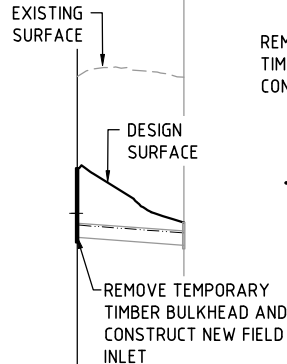
PIPE SIZEmm (Class)	375(3)	375(3)	375(3)	375(3)	450(3)	450(3)	450(3)	525(3)
PIPE GRADE %	0.50%	1.21%	0.51%	0.50%	1.18%	2.94%	1.97%	1.35%
PIPE SLOPE 1 in X	200.00	82.45	197.32	200.00	85.01	34.05	50.82	74.07
FULL PIPE FLOW VELOCITY (m/s)	0.25	0.42	1.18	1.52	1.55	2.22	2.28	2.23
PART FULL FLOW VELOCITY (m/s)								2.61 (2.18 63.20%A)
DATUM RL 18.0								
WATER LEVEL IN STRUCTURE	31.905	31.892	31.872	31.558	31.187	30.591	29.314	28.629
HYDRAULIC GRADE LEVEL	31.896	31.892	31.879	31.872	31.738	31.558	31.437	31.187
PIPE FLOW (Cumecs)	0.028	0.046	0.130	0.168	0.246	0.353	0.362	0.470
PIPE CAPACITY AT GRADE (Cumecs)	0.124	0.193	0.125	0.124	0.309	0.488	0.400	0.482
DEPTH TO INVERT	1.400	1.543	1.563	1.484	1.504	1.519	1.539	1.539
INVERT LEVEL OF DRAIN	31.103	31.016	30.996	30.868	30.848	30.664	30.528	30.508
DESIGN SURFACE LEVEL	32.503	32.559	32.352	32.352	32.203	32.067	30.788	30.788
SETOUT CO-ORDINATE	E-8098.681 N-11297.539	E-8105.677 N-11313.379	E-8108.612 N-11323.552	E-8137.730 N-11309.208	E-8164.484 N-11304.890	E-8267.787 N-11294.503	E-8267.787 N-11268.792	E-8278.317 N-11269.768
RUNNING CHAINAGE	0.000	17.316	17.316	10.588	27.904	32.459	60.363	27.100

COMPLIANCE APPROVAL
referred to in the PDA
DEVELOPMENT APPROVAL
Approval no: DEV-2026-WAR-488
Condition no: 51
Date: 12/06/2026



CONSTRUCT
TEMPORARY FIELD
INLET WITH TYPE 1
APRON

STRUCTURE NAME	STRUCTURE DESCRIPTION
F1007	IPWEAQ FIELD INLET 900x600 1/4" GRATE TO MATCH ROAD XFALL REFER DETAIL
MH001/003	IPWEAQ STD MANHOLE 10500



STRUCTURE NAME	STRUCTURE DESCRIPTION
F1008	FIELD INLET 900x900mm CHAMBER WITH TYPE 1 APRON CUSTOM HEADWALL REFER DETAIL

REMOVE TEMPORARY
TIMBER BULKHEAD AND
CONSTRUCT NEW GULLY

STRUCTURE NAME	STRUCTURE DESCRIPTION
G016	IPWEAQ 'LIP IN LINE' GULLY 2.4m Lintel, Type 'S', 130 REFER DETAIL
MH008/001	IPWEAQ STD MANHOLE 12000 REFER DETAIL

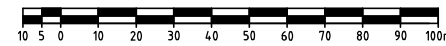
CONSTRUCT LINTEL ONLY

STRUCTURE NAME	STRUCTURE DESCRIPTION
G017	IPWEAQ 'Lip in Line' GULLY SAG - 2.4m Lintel, Type 'S' EXISTING CHAMBER IPWEAQ 'Lip in Line' GULLY SAG - 2.4m Lintel, Type 'S' OVER 15000 MH REFER DETAIL CUSTOM HEADWALL REFER DETAIL

REMOVE TEMPORARY
TIMBER BULKHEAD AND
CONSTRUCT NEW GULLY

STRUCTURE NAME	STRUCTURE DESCRIPTION
G027	IPWEAQ 'LIP IN LINE' GULLY 2.4m Lintel, Type 'S', 130 IPWEAQ STD MANHOLE 18000 REFER DETAIL

SCALE A 1:1000
(Horiz.)



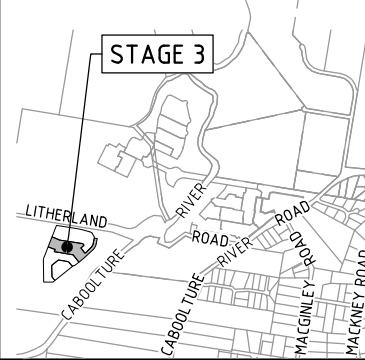
B 1:100
(Vert.)



(A1 UNREDUCED)

DO NOT SCALE THIS DRAWING
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LOCALITY PLAN



REVISIONS

No	Description	Date	By
A	FOR APPROVAL	2025.12.16	VS

Client



Project

RIVERMONT
PRECINCT 3
STAGE 3



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: 2025.12.16
14:49:44+10'00'

Drawing Title
STORMWATER
LONG SECTIONS
SHEET 1

Drawn RP	Designed VS	Checked MAS	Date DEC '25
Scale AS SHOWN	Drawing No 24-273-17	Sheet 17 of 30	Revision A

STRUCTURE NAME
STRUCTURE DESCRIPTION

NOTE:

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

PIPE SIZEmm (Class)		375(3)
PIPE GRADE %		1.00%
PIPE SLOPE 1 in X		100.00
FULL PIPE FLOW VELOCITY (m/s)		0.22
PART FULL FLOW VELOCITY (m/s)		1.11
DATUM RL 18.0		(0.91 63.20%)
WATER LEVEL IN STRUCTURE	29.663	29.788
HYDRAULIC GRADE LEVEL	29.663	29.644
PIPE FLOW (Cumecs)		0.024
PIPE CAPACITY AT GRADE (Cumecs)		0.175
DEPTH TO INVERT	14.00	15.13
INVERT LEVEL OF DRAIN	29.269	29.194
DESIGN SURFACE LEVEL	30.469	30.707
SETOUT CO-ORDINATE	E 8328.336 N 1324.128	E 8322.374 N 1310.510
RUNNING CHAINAGE	0.000	7.510

23

25

26

27

28

29

30

COMPLIANCE APPROVAL
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DEVELOPMENT APPROVAL

Approval no: DEV-2026-WAR-4889

Condition no: 51

Date: 12/06/2026



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LOCALITY PLAN



REVISIONS

[illegible]

Client



Project

RIVERMONT
PRECINCT 3
STAGE 3



Approved Director - RPEQ 17544

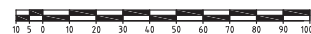
Digitally signed by
Mark Shaw RPEQ
17544
Date: 2026.03.30
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Drawing Title

STORMWATER
LONG SECTIONS
SHEET 2

Drawn RP	Designed VS	Checked MAS	Date DEC ' 25
Scale AS SHOWN			Sheet 18 of 3
A1	Drawing No 24-273-18		Revision B

SCALE A 1:1000
(Horiz.)

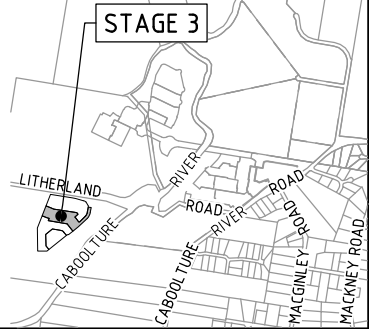


B 1:100
(Vert.)



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LOCALITY PLAN



REVISIONS

[illegible]

Client



Project

RIVERMONT
PRECINCT 3
STAGE 3



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Approved Director - RPEQ 17544

M. Shaw

Digitally signed by Mark
Shaw RPEQ 17544
Date: 2025.12.16
14:49:45+10'00'

Drawing Title
STORMWATER
LONG SECTIONS
SHEET 3

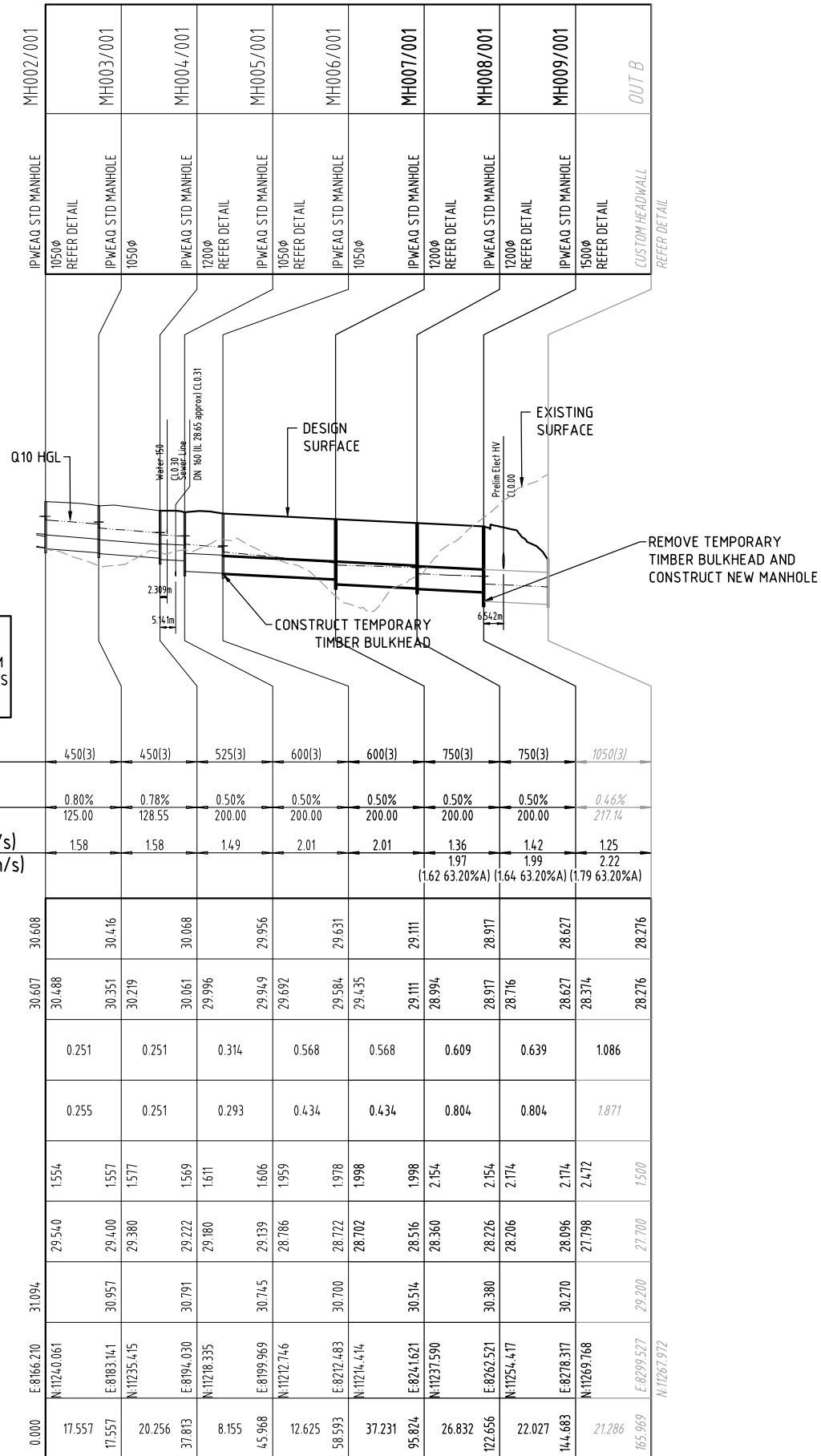
Drawn RP	Designed VS	Checked MAS	Date DEC' 25
Scale AS SHOWN			Sheet 19 of 30
A1	Drawing No 24-273-19		Revision A

STRUCTURE
NAME

STRUCTURE DESCRIPTION

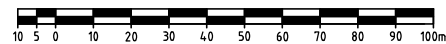
NOTE:

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



001

SCALE A 1:1000
(Horiz.)



B 1:100
(Vert.)



(A1 UNREDUCED)

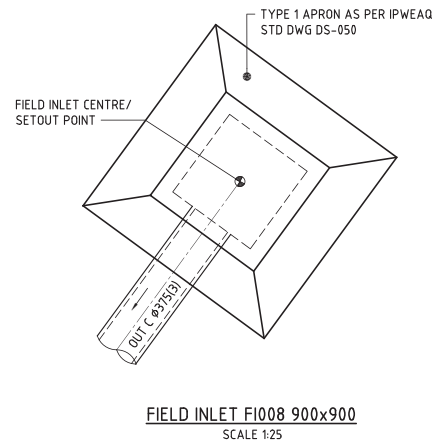
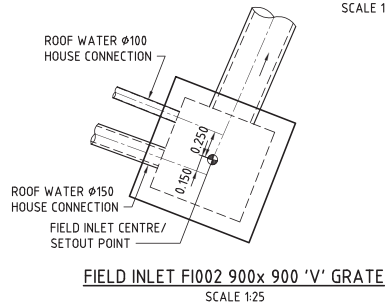
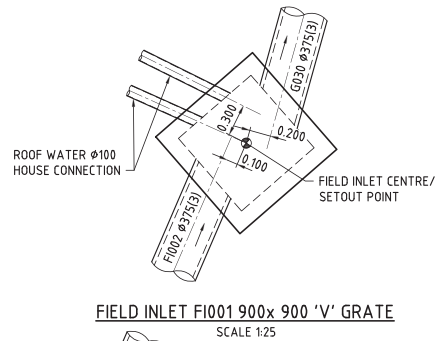
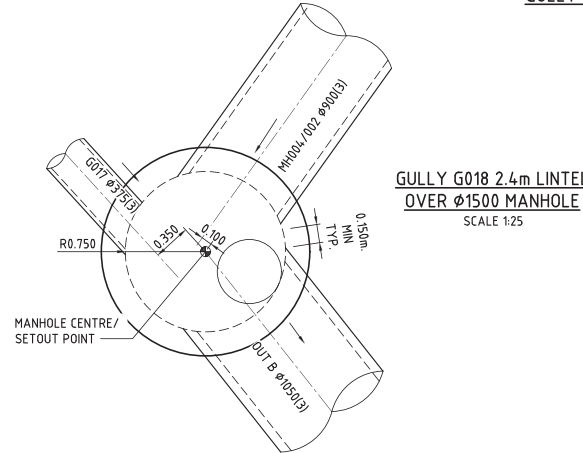
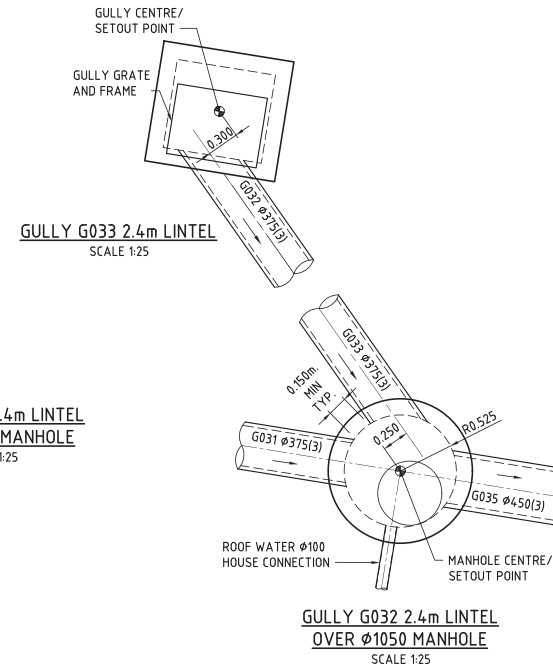
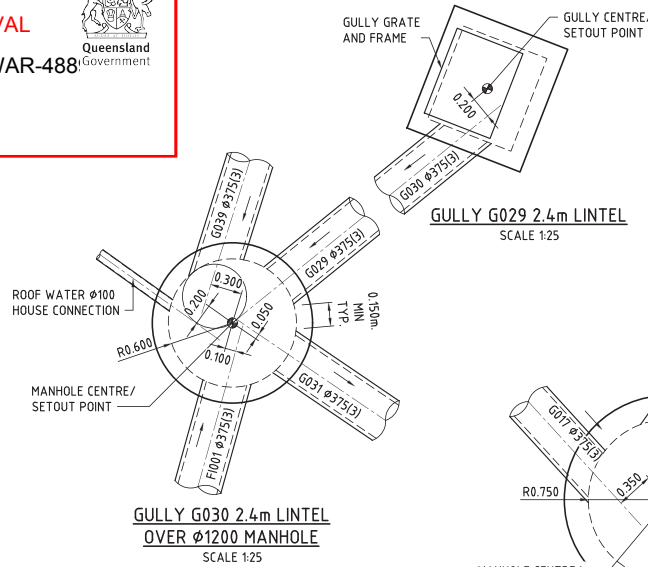
COMPLIANCE APPROVAL
referred to in the PDA
DEVELOPMENT APPROVAL



Approval no: DEV-2026-WAR-488

Condition no: 51

Date: 12/06/2026



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	0.300	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 (CAT13CH) (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 (CAT161F) (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 1:25 (AS UNREDUCED)

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REVISIONS			
No	Description	Date	By
A	FOR APPROVAL	2025.12.16	VS
B	G033 UPDATED	2026.03.27	DF

Client



Project

RIVERMONT
PRECINCT 3
STAGE 3

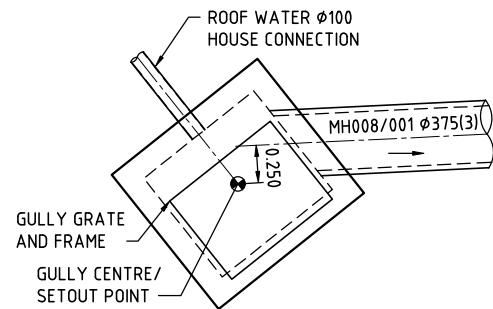


Approved Director - IPWEQ 17544
Digitally signed by Mark Shaw RPEQ 17544
Date: 2026.03.30 06:45:21+1000

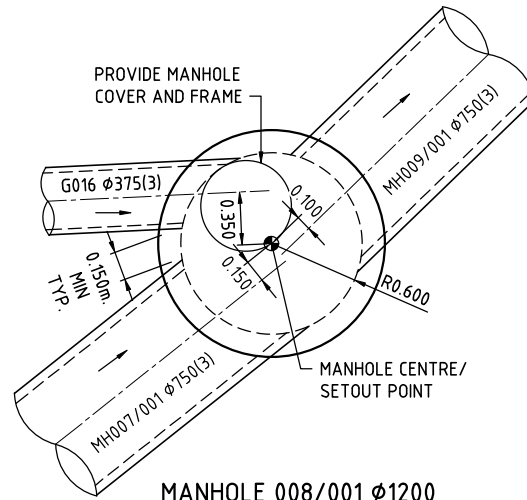
STORMWATER
MANHOLE DETAILS
SHEET 1

Drawn	Designed	Checked	Date
LNT	VS	MAS	DEC '25
Scale AS SHOWN			
Drawing No		Sheet	Revision
A1		24-273-20	B

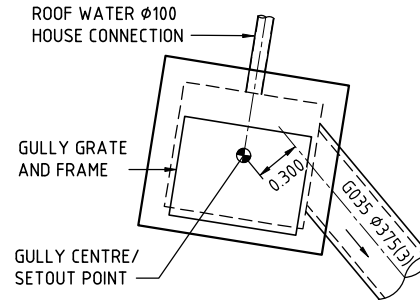
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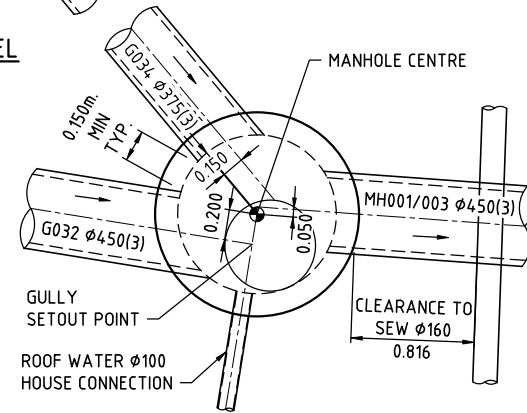
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SCALE 1:25



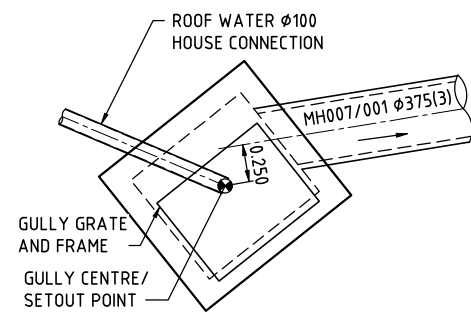
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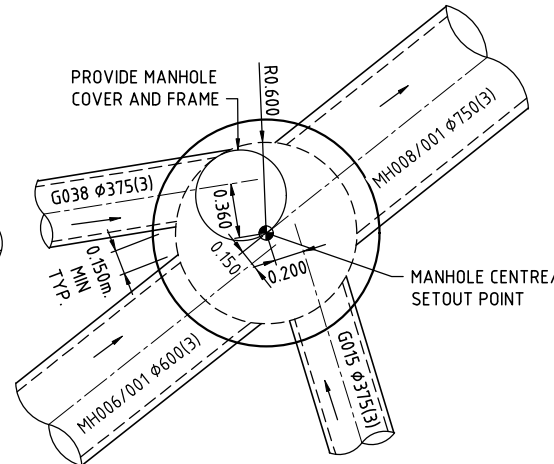
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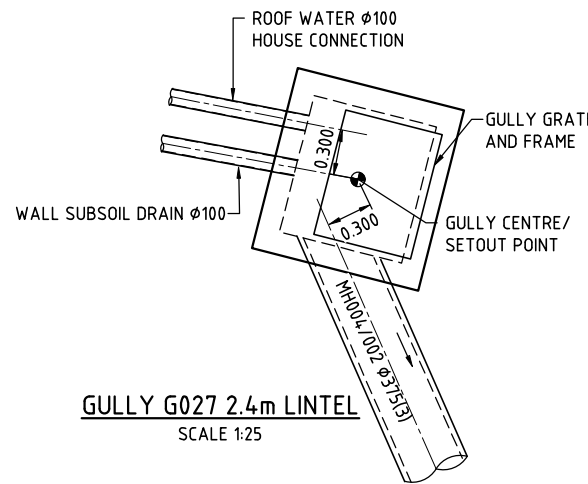
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OVER 1050 MANHOLE
SCALE 1:25



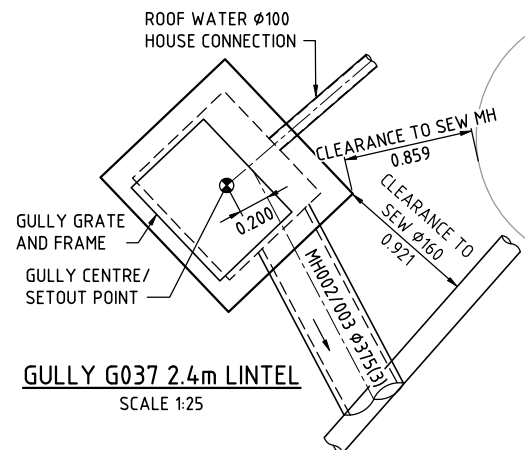
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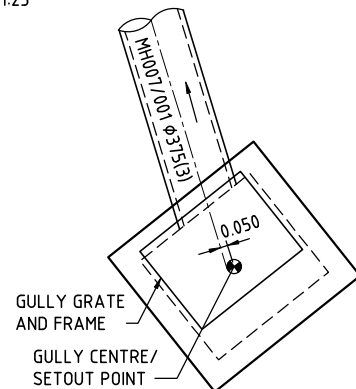
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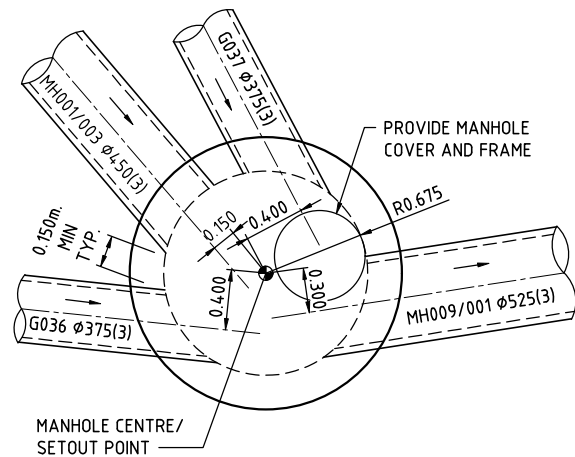
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SCALE 1:25



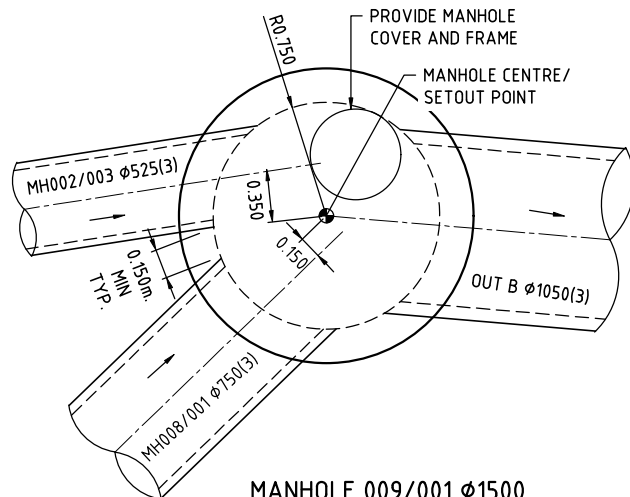
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SCALE 1:25



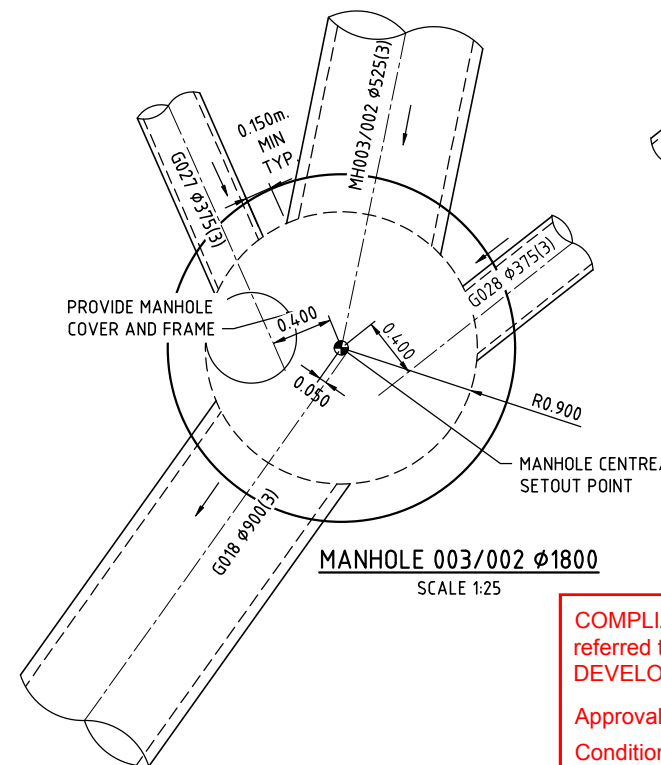
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SCALE 1:25



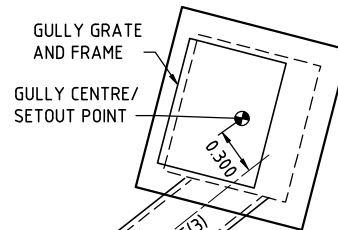
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SCALE 1:25



MANHOLE 009/001 1500
SCALE 1:25



MANHOLE 003/002 1800
SCALE 1:25



GULLY G028 2.4m LINT
SCALE 1:25

COMPLIANCE APPROVAL
referred to in the PDA
DEVELOPMENT APPROVAL

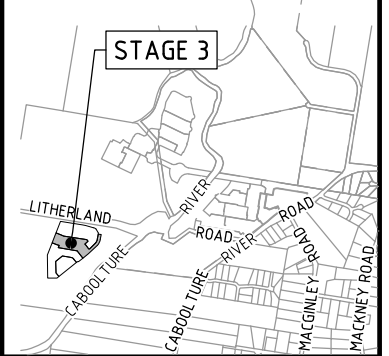
Approval no: DEV-2026-WAR-488
Condition no: 51
Date: 12/06/2026



SCALE 0.5 1 1.5 2 2.5m
1:25 (A1 UNREDUCED)

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LOCALITY PLAN



REVISIONS

No	Description	Date	By
A	FOR APPROVAL	2025.12.16	VS

Client



Project

RIVERMONT
PRECINCT 3
STAGE 3



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: 2025.12.16
14:49:46+10'00'

Drawing Title
STORMWATER
MANHOLE DETAILS
SHEET 2

Drawn	Designed	Checked	Date
LNT	VS	MAS	DEC '25
Scale	Drawing No	Revision	
AS SHOWN	24-273-21	A	

COMPLIANCE APPROVAL
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV-2026-WAR-488

Condition no: 51

Date: 12/06/2026

The logo of the Queensland Government, featuring the state crest with a shield, a crown, and two kangaroos, with the text 'Queensland Government' below it.

[illegible]

CALCULATIONS TABLE

COMPLIANCE APPROVAL
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV-2026-WAR-488

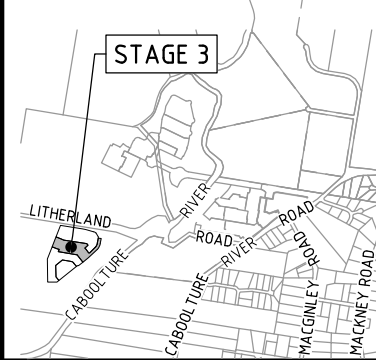
Condition no: 51

Date: 12/06/2026



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LOCALITY PLAN



REVISIONS

[illegible]

Client



Project

RIVERMONT
PRECINCT 3
STAGE 3



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Approved Director - RPEQ 17544

M. Shaw

Drawing Title

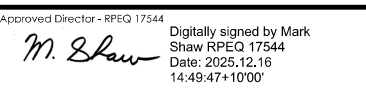
STORMWATER
CALCULATION TABLE
SHEET 2

Drawn RP	Designed VS	Checked MAS	Date DEC' 25
Scale AS SHOWN			Sheet 23 of 30
A1	Drawing No 24-273-23		Revision A

[illegible]

Stockland

RIVERMONT
PRECINCT 3
STAGE 3



STORMWATER CALCULATION TABLE SHEET 3			
Drawn RP	Designed VS	Checked MAS	Date DEC '25
Scale AS SHOWN			Sheet 24 of 30
A1	Drawing No 24-273-24		Revision A

Date: 12/06/2026

LOCATION				TIME		SUB-CATCHMENT RUNOFF						INLET DESIGN				DRAIN DESIGN										HEADLOSSES										PART FULL		DESIGN LEVELS																
DESIGN ARI	STRUCTURE No.	DRAIN SECTION	SUB-CATCHMENTS CONTRIBUTING	LAND USE	SLOPE OF CATCHMENT	SUB-CATCHMENT TIME OF CONC	RAINFALL INTENSITY	10YR RUNOFF CO-EFFICIENT	CO-EFFICIENT OF RUNOFF	SUB-CATCHMENT AREA	EQUIVALENT AREA	SUM OF (C x 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 CONC	RAINFALL INTENSITY	TOTAL (C x 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 STRUCT. HEADLOSS	LAT. HEADLOSS CO-EFFICIENT	LAT. PIPE STRUCT. HEADLOSS	W.S.E CO-EFFICIENT	CHANGE IN W.S.E	PIPE FRICTION SLOPE	PIPE FRICTION HEADLOSS (L x Sf)	DEPTH	VELOCITY	OBVERT LEVELS	DRAIN SECTION H.G.L	UPSTREAM H.G.L	LAT. H.G.L	W.S.E	SURFACE OR K&C INVERT LEVEL	STRUCTURE No.
yr's				%	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/s	m	m	m	m	m				
10% 1%	G036	G036 to MH002/003	G036		15.00 15.00	140 204	0.85 0.85	0.85 1.00	0.079 0.079		0.067 0.079	26 45	59 0.079 FLOW WIDTH	59 0.683 m (0.000m 3 month)	0.00 0.00	191 1033m	SAG	59	0	LOST	15.00 15.00	140 204	0.067 0.189	107 0	0 0	4.8 59	8.989 (Pipe flow= Sum upstream flows)	100	375(3)	0.53 (1.59)	0.25				0.014	1.90	0.113				7.90	0.113	0.11	0.010			29.068 29.312	29.322 29.312	29.435		29.435	30.140	G036	
10% 1%	G038	G038 to MH007/001	G038		15.00 15.00	140 204	0.85 0.85	0.85 1.00	0.109 0.109		0.093 0.109	36 62	51 0.109 FLOW WIDTH	51 2.233 m (0.000m 3 month)	0.50 0.00	87 1033m	4	40	11	G016	15.00 15.00	140 204	0.093 0.109	62 204.7	22 204.7	40 0	10.490 (Pipe flow= Sum upstream flows)	100	375(3)	0.36 (1.59)	0.29				0.007	1.90	0.052				7.90	0.052	0.05	0.006 (0.002 63.205%)	0.122 0.128	1.38 29.493	29.493 29.388	29.435		29.545		29.545	30.518	G038
10% 1%	MH007/001	MH007/001 to MH008/001	G015,G015,G012,G013,G010,G010,G008,G008,G040,G009,G011,G014,F1006,F1004,F1005,F1006,G004,G004,G002,G002,F1003,F1003,G001,G003,G005,G006,G006,G007,G007,G038														30				18.36 18.36	127 186	0.692 1.999	1033 1698	424 1698	609 1698	26.832 1698	0.50 0	750(3)	1.36 (1.79)	0.33			Qo 0.609 Do 750 Flow G015 made eqv grate flow Flow G038 made eqv grate flow CHART 33 Angle 1 S/Do 2.5 Du/Do 0.80 Qg/Qo 0.07 K -0.36 S/Do 0.97 cor 0.14 Ku -0.22 Kw -0.22	0.094	1.00	0.117				100	0.117	0.29	0.077 (0.304 63.205%)	0.492 0.492	1.97 29.116	29.116 28.982	28.994 28.917	29.111		29.111	30.514	MH007/001	
10% 1%	MH008/001	MH008/001 to MH009/001	G016,G016,G015,G015,G012,G013,G010,G010,G008,G008,G040,G009,G011,G014,F1006,F1004,F1005,F1006,G004,G004,G002,G002,F1003,F1003,G001,G003,G005,G006,G006,G007,G007,G038														30				18.69 18.69	126 184	0.681 2.068	1057 1698	418 1698	639 1698	22.027 1698	0.50 0	750(3)	1.42 (1.79)	0.26			Qo 0.639 Do 750 Flow G016 made eqv grate flow CHART 33 Angle 5 S/Do 2.5 Du/Do 1.00 Qg/Qo 0.05 K 0.37 S/Do 1.06 cor 0.09 Ku 0.46 Kw 0.46 K vals above for stepped pipes as grate flow grate flow decreased by 0.035 from G016 Routine 2.15 Join Pipes: MH007/001 and G016 Vel1 1.368 Vel2 0.315	0.103	1.00	0.201				100	0.201	0.32	0.070 (0.316 63.205%)	0.509 0.509	1.99 28.962	28.962 28.852	28.916 28.829	28.917		28.917	30.380	MH008/001	
10% 1%	G037	G037 to MH002/003	G037		15.00 15.00	140 204	0.85 0.85	0.85 1.00	0.132 0.132	0.112 0.132	0.112 0.132	44 75	60 0.132 FLOW WIDTH	60 0.707 m (0.000m 3 month)	0.00 0.00	191 1033m	SAG	60	0	LOST	15.00 15.00	140 204	0.112 0.132	75 0	15 0	60 0	7.295 (Pipe flow= Sum upstream flows)	100	375(3)	0.55 (1.59)	0.20				0.015	5.90	0.091				5.90	0.091	0.12	0.009			29.194 29.121	29.321 29.312	29.412		29.412	30.140	G037	
10% 1%	MH002/003	MH002/003 to MH009/001	F1001,F1002,F1002,F1001,G029,G03 9,G030,G031,G03 3,G032,G034,G03 5,F1007,G036,G0 37														30				17.60 17.60	130 189	1.214 1.547	812 2206	342 2206	470 2206	10.575 2206	1.35 2206	525(3)	2.23 (2.29)	0.08			Qo 0.470 Do 525 Flow G037 made eqv grate flow Routine 2.2 CHART 48 Du/Do 0.71 Qu/Do 0.12 K 2.16 d/Do 2.0 chrt Qg/Do 0.12 Kg 0.88 d/Do 1.5 chrt Qg/Do 0.12 Kg 0.88 d/Do 1.00 Interp value Kg 0.88 Ku=Kw= 2.24 Combined pipes in line case Join Pipes: MH001/003 and G036 Vel1 0.496 Vel2 2.262 Eq Dia 510 Angle 227 Flow 0.414 CHART 33 Angle 0 S/Do 2.5 Du/Do 0.97 Qg/Do 0.12 K 0.55 S/Do 1.35 cor 0.16 Ku 0.71 Kw 0.71 Interpolated Ku= 163 Kw= 163 K vals above for stepped pipes as grate flow grate flow decreased by 0.056 from G037 Routine 3.2 Join Pipes: G037 and MH001/003 Averagesd Ku 1.32 Kw 1.33	0.253	1.32	0.334				133	0.336	1.29	0.136 (0.233 63.205%)	0.414 0.414	2.61 28.978	28.978 28.835	28.978 28.835	29.312		29.314	30.249	MH002/003	
10% 1%	MH009/001	MH009/001 to OUT B	G016,G016,G015,G015,G012,G013,G010,G010,G008,G008,G040,G009,G011,G014,F1006,F1004,F1005,F1006,G004,G004,G002,G002,F1003,F1003,G001,G003,G005,G006,G006,G007,G007,G038,F1001,F1002,F1002,F1001,G029,G039,G030,G031,G033,G032,G034,G035,F1007,G036,G037														30				18.95 18.95	125 183	1.895 3.615	1838 1698	751 1698	1086 1698	19.606 1698	0.50 0	1050(3)	1.25 (2.23)	0.26			Qo 1.086 Do 1050 Routine 2.15 Join Pipes: MH008/001 and MH002/003 Vel1 14.35 Vel2 2.090 Eq Dia 899 Angle 142 Flow 1.086 CHART 50 Du/Do 0.86 alpha 38	0.080	1.00	0.269				100	0.269	0.16	0.030 (0.353 63.205%)	0.562 0.562	2.29 28.852	28.852 28.754	28.860 28.754	28.629		28.629	30.270	MH009/001	
10% 1%	F1008	F1008 to OUT C	F1008		15.00 15.00	140 204	0.66 0.79	0.586 0.586	0.387 0.464	0.387 0.464	0.387 0.464	151 263	150 0.172 FLOW WIDTH	150 0.172 FLOW WIDTH	0.00 0.00	193 1000m 3 month)	SAG	151	0	LOST	15.00 15.00	140 204	0.387 0.464	263		151 28.260	0.74 28.260	375(3)	1.36 (1.36)	0.35				0.094	2.75	0.259				2.75	0.259	0.74	0.209			28.284 28.075	28.284 28.075	28.543		28.543	29.741	F1008		

CALCULATIONS TABLE

COMPLIANCE APPROVAL
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV-2026-WAR-488

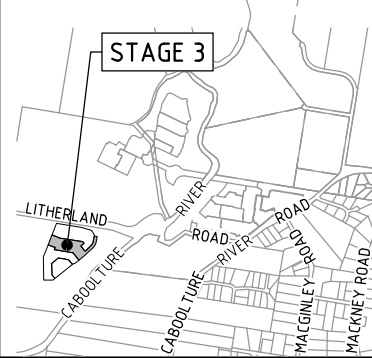
Condition no: 51

Date: 12/06/2026



DO NOT SCALE THIS DRAWING
IF IN DOUBT - ASK!

LOCALITY PLAN



REVISIONS

[illegible]

Client



Project

RIVERMONT
PRECINCT 3
STAGE 3



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: 2025.12.16
14:49:48+10'00'

Drawing Title

STORMWATER
CALCULATION TABLE
SHEET 5

Drawn RP	Designed VS	Checked MAS	Date DEC' 25
Scale AS SHOWN			Sheet 26 of 30
A1	Drawing No 24-273-26		Revision A

Date: 25th May 2024

☐ List all relevant safety studies

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